COURSE SLO ASSESSMENT 4-YEAR TIMELINE

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
El Camino: Course SLOs (IND) - Auto Collision Repair and Painting	2013-14 (Fall 2013)	ECC: ACRP 2B	Automotive Refinishing Materials and Equipment	SLO #3 Formula Lookup & Toner Pour	Students will be able to retrieve a vehicle's color code and formula information, select the correct quantity for the job, and correctly pour the toners to create the paint.
	2013-14 (Spring 2014)	ECC: ACRP 26	Automotive Accident Reconstruction	SLO #1 Occupant Dynamics	Students will be able to predict and evaluate vehicle occupant dynamics in given collision scenarios.
	2013-14 (Spring 2014)	ECC: ACRP 26	Automotive Accident Reconstruction	SLO #2 Photography and Computer Modeling	Students will be able to properly document vehicle damage using photography and/or computer modeling software for analysis of accident dynamics.
	2013-14 (Spring 2014)	ECC: ACRP 26	Automotive Accident Reconstruction	SLO #3 Velocity & Force	Students will be able to explain and determine a vehicle's Principle Direction of Force (PDOF), force line and Delta-V. Students will also be able to calculate combined velocities of multiple vehicles.
	2013-14 (Spring 2014)	ECC: ACRP 2C	Automotive Refinishing Applications	SLO #1 Color Matching and Spot Blends	Students will be able to choose the proper color variant for color match and perform a spot blend on a repaired sample panel.
	2014-15 (Fall 2014)	ECC: ACRP 1A	Introduction to Automotive Collision Repair	SLO #1 MIG Welds	Students will be able to set up and use a MIG welder properly and safely to perform three welds (lap, plug, reinforced butt) on automotive gauge steel in 'flat' position.
	2014-15 (Fall 2014)	ECC: ACRP 1A	Introduction to Automotive Collision Repair	SLO #2 Mix & Spray Primer	Students will be able to mix and spray a given quantity of primer using the correct ratio and adjust, operate, and clean an HVLP primer gun.
	2014-15 (Fall 2014)	ECC: ACRP 1A	Introduction to Automotive Collision Repair	SLO #3 Mix, Apply & Shape Plastic Filler	Students will be able to mix, apply and shape plastic filler for primer on a repaired automotive panel.
	2014-15 (Fall 2014)	ECC: ACRP 1B	Collision Repair Equipment and Welding Techniques	SLO #1 I-CAR MIG Welds	Students will be able to set up and use a MIG welder properly and safely to perform three welds (lap, plug, reinforced butt) on automotive gauge steel according to I-CAR standards.
	2014-15 (Fall 2014)	ECC: ACRP 1B	Collision Repair Equipment and Welding Techniques	SLO #2 Panel Misalignment	Students will be able to identify panel misalignment due to improper installation, prior damage, and/or improper repair and choose the proper repair steps to correct the misalignment.
	2014-15 (Fall 2014)	ECC: ACRP 1B	Collision Repair Equipment and Welding Techniques	SLO #3 Large Dent Removal	Students will be able to use dent removal equipment such as the Maxi welder or stud welder to remove a large dent from an automotive panel with no rear access.
	2014-15 (Fall 2014)	ECC: ACRP 20	Automotive Collision Investigation	SLO #1 Restraint Systems	Students will be able to recognize, name, and diagnose damage to multiple types of occupant restraint systems including active restraints (seat belts) and passive restraints (automated seat belts, airbags).
	2014-15 (Fall 2014)	ECC: ACRP 20	Automotive Collision Investigation	SLO #2 Damage to Unitized and Full Frame Vehicles	Students will be able to recognize, name, and diagnose damage to unitized and full-frame vehicles and some of their major systems (drivetrain, brakes, suspension/steering).
	2014-15 (Fall 2014)	ECC: ACRP 20	Automotive Collision Investigation	SLO #3 Tire Identification & Construction	Students will be able to decode tire information such as wheel size, diameter, width, offset, production date, speed rating, traction

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	2014-15 (Fall 2014)	ECC: ACRP 20	Automotive Collision Investigation	SLO #3 Tire Identification & Construction	rating, and temperature rating. Students will also be able to identify different types of tire construction (radial, bias ply) and identify tires by skid marks observed after an accident.
	2014-15 (Spring 2015)	ECC: ACRP 1A	Introduction to Automotive Collision Repair	SLO #1 MIG Welds	Students will be able to set up and use a MIG welder properly and safely to perform three welds (lap, plug, reinforced butt) on automotive gauge steel in 'flat' position.
	2014-15 (Spring 2015)	ECC: ACRP 1A	Introduction to Automotive Collision Repair	SLO #2 Mix & Spray Primer	Students will be able to mix and spray a given quantity of primer using the correct ratio and adjust, operate, and clean an HVLP primer gun.
	2014-15 (Spring 2015)	ECC: ACRP 2A	Basic Automotive Painting - Refinishing	SLO #1 Mixing Primer	Students will be able to mix a given quantity of primer using the correct ratio and will be able to adjust, operate, and clean an HVLP primer gun.
	2014-15 (Spring 2015)	ECC: ACRP 4A	Beginning Automotive Collision Repair I	SLO #1 Tool Identification & Use	Students will be able to properly name tools unique to the collision repair trade and explain how they are used. Students will be able to analyze minor damage and select the correct hand tools to repair the damage.
	2014-15 (Spring 2015)	ECC: ACRP 4A	Beginning Automotive Collision Repair I	SLO #3 Mix, Apply & Shape Plastic Filler	Students will be able to mix, apply and shape plastic filler for primer on a repaired automotive panel.
	2014-15 (Spring 2015)	ECC: ACRP 5A	Beginning Automotive Painting I	SLO #1 VOC Tracking	Students will be able to monitor the type and amount of liquid material used for a job and record the data in the VOC (volatile organic compound) tracking log book.
	2015-16 (Fall 2015)	ECC: ACRP 1D	Automotive Component Systems Analysis and Repair	SLO #1 Plastic Repair	Students will be able to locate a plastic part's type code and choose the appropriate repair method, tools, and materials. Students will then be able to apply the method and perform the repair
	2015-16 (Fall 2015)	ECC: ACRP 1D	Automotive Component Systems Analysis and Repair	SLO #2 Suspension Components	Students will be able to identify damage to suspension components by measuring and visual inspection of a damaged vehicle. Students will be able to use proper nomenclature to write an informal estimate of what vehicle parts will need to be repaired and what parts need to be replaced.
	2015-16 (Fall 2015)	ECC: ACRP 1D	Automotive Component Systems Analysis and Repair	SLO #3 Hybrid & Airbag Safety	The student will be able to research, locate, safely disable and enable a hybrid vehicle’s high voltage system. The student will also be able to research, safely disable and enable a vehicle’s driver airbag.
	2015-16 (Fall 2015)	ECC: ACRP 22	Automotive Repair Fraud	SLO #1 Examining Accident Scenes	Students will be able to examine an accident scene (in person or via video/digital media) and formulate conclusions as to the details of the accident based on proper detection and investigation procedures and collection of evidence such as accident photography, witness marks and material transfer.
	2015-16 (Fall 2015)	ECC: ACRP 22	Automotive Repair Fraud	SLO #2 Staged Accidents	Students will be able to analyze both an accident- or fire-damaged vehicle and the accident scene to determine if the accident was staged (fraudulent).
	2015-16 (Fall 2015)	ECC: ACRP 22	Automotive Repair Fraud	SLO #3 VIN Swapping and	Students will be able to recognize and locate Vehicle Identification

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	2015-16 (Fall 2015)	ECC: ACRP 22	Automotive Repair Fraud	Title Issues	Numbers (VIN) and determine if the VIN plate and/or labels have been altered, cloned, replaced or otherwise tampered with. Students will be able to explain how a vehicle title could be 'washed' and how to identify a washed title.
	2015-16 (Spring 2016)	ECC: ACRP 1A	Introduction to Automotive Collision Repair	SLO #3 Mix, Apply & Shape Plastic Filler	Students will be able to mix, apply and shape plastic filler for primer on a repaired automotive panel.
	2015-16 (Spring 2016)	ECC: ACRP 26	Automotive Accident Reconstruction	SLO #1 Occupant Dynamics	Students will be able to predict and evaluate vehicle occupant dynamics in given collision scenarios.
	2015-16 (Spring 2016)	ECC: ACRP 26	Automotive Accident Reconstruction	SLO #2 Photography and Computer Modeling	Students will be able to properly document vehicle damage using photography and/or computer modeling software for analysis of accident dynamics.
	2015-16 (Spring 2016)	ECC: ACRP 26	Automotive Accident Reconstruction	SLO #3 Velocity & Force	Students will be able to explain and determine a vehicle's Principle Direction of Force (PDOF), force line and Delta-V. Students will also be able to calculate combined velocities of multiple vehicles.
	2015-16 (Spring 2016)	ECC: ACRP 2B	Automotive Refinishing Materials and Equipment	SLO #1 Chemicals and Additives	Students will be able to analyze a given repair job and choose the correct chemicals and additives needed for the job based on weather conditions, job scope, job budget, and job deadline.
	2015-16 (Spring 2016)	ECC: ACRP 2B	Automotive Refinishing Materials and Equipment	SLO #2 Spray Booth Operation	Students will be able to set up, operate, and shut down a spray booth according to outside temperature and humidity, and the vehicle job and chemicals being sprayed.
	2015-16 (Spring 2016)	ECC: ACRP 2B	Automotive Refinishing Materials and Equipment	SLO #3 Formula Lookup & Toner Pour	Students will be able to retrieve a vehicle's color code and formula information, select the correct quantity for the job, and correctly pour the toners to create the paint.
	2015-16 (Spring 2016)	ECC: ACRP 4D	Intermediate Auto Collision Repair II	SLO #1 Porto Power	Students will be able to set up and use a Porto Power hydraulic ram and its attachments to remove a large panel dent or correct damage to a structural part.
	2015-16 (Spring 2016)	ECC: ACRP 4D	Intermediate Auto Collision Repair II	SLO #2 Pull Planning & Geometry	Students will be able to analyze damage to a given vehicle, determine the sequence and direction of the impact's damage, and create a diagram and pull plan to correct the damage using the frame rack, Power Post or Pull Dozer.
	2015-16 (Spring 2016)	ECC: ACRP 4D	Intermediate Auto Collision Repair II	SLO #3 Anchoring a Vehicle for Pulling	Students will be able to research and locate a given vehicle's anchor points for frame pulling, and choose the correct grade of chains and type of attachment accessories to anchor the vehicle to the floor or frame rack.
	2015-16 (Spring 2016)	ECC: ACRP 5D	Intermediate Automotive Refinishing II	SLO #1 Spray Booth Types & Equipment	Students will be able to identify by name and differentiate between different kinds of paint spray booths and related equipment.
	2015-16 (Spring 2016)	ECC: ACRP 5D	Intermediate Automotive Refinishing II	SLO #2 Chemicals & Additives	Students will be able to choose the correct speed and type of chemical additives for a variety of different weather conditions, repair job size, and job turnaround time expectations.
	2015-16 (Spring 2016)	ECC: ACRP 5D	Intermediate Automotive Refinishing II	SLO #3 Topcoat Paint Systems	Students will be able to compare and contrast the three major types of topcoat paint systems for budget, speed of application, longevity,

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	2015-16 (Spring 2016)	ECC: ACRP 5D	Intermediate Automotive Refinishing II	SLO #3 Topcoat Paint Systems	metallic layout, scratch resistance and ease of repair.
	2016-17 (Fall 2016)	ECC: ACRP 1C	Major Collision Analysis and Repair	SLO #1 Measuring Vehicle Damage	Students will be able to identity, differentiate between, and measure direct and indirect vehicle damage. Students will be able to use proper nomenclature to write an informal estimate of what vehicle parts will need to be repaired and what parts need to be replaced.
	2016-17 (Fall 2016)	ECC: ACRP 1C	Major Collision Analysis and Repair	SLO #2 Types of Frame Damage	Given access to a damaged vehicle, students will be able to recognize one or more of the five types of frame damage and will be able to create a written repair strategy to fix the damage.
	2016-17 (Fall 2016)	ECC: ACRP 1C	Major Collision Analysis and Repair	SLO #3 Core Support Replacement	Students will be able to create a repair plan for replacing a damaged unibody vehicle's core support that includes analysis of the damage, an ordered list of parts for removal, tools needed to remove the core support, and location and number of welds needed to install the new support.
	2016-17 (Fall 2016)	ECC: ACRP 20	Automotive Collision Investigation	SLO #1 Restraint Systems	Students will be able to recognize, name, and diagnose damage to multiple types of occupant restraint systems including active restraints (seat belts) and passive restraints (automated seat belts, airbags).
	2016-17 (Fall 2016)	ECC: ACRP 20	Automotive Collision Investigation	SLO #2 Damage to Unitized and Full Frame Vehicles	Students will be able to recognize, name, and diagnose damage to unitized and full-frame vehicles and some of their major systems (drivetrain, brakes, suspension/steering).
	2016-17 (Fall 2016)	ECC: ACRP 20	Automotive Collision Investigation	SLO #3 Tire Identification & Construction	Students will be able to decode tire information such as wheel size, diameter, width, offset, production date, speed rating, traction rating, and temperature rating. Students will also be able to identify different types of tire construction (radial, bias ply) and identify tires by skid marks observed after an accident.
	2016-17 (Fall 2016)	ECC: ACRP 4A	Beginning Automotive Collision Repair I	SLO #1 Tool Identification & Use	Students will be able to properly name tools unique to the collision repair trade and explain how they are used. Students will be able to analyze minor damage and select the correct hand tools to repair the damage.
	2016-17 (Fall 2016)	ECC: ACRP 4A	Beginning Automotive Collision Repair I	SLO #2 Vehicle Parts & Construction	Students will be able to identify and differentiate between unibody and full-frame vehicle designs. Students will be able to identify and properly name major non-structural vehicle parts and panels.
	2016-17 (Fall 2016)	ECC: ACRP 4A	Beginning Automotive Collision Repair I	SLO #3 Mix, Apply & Shape Plastic Filler	Students will be able to mix, apply and shape plastic filler for primer on a repaired automotive panel.
	2016-17 (Fall 2016)	ECC: ACRP 5C	Intermediate Automotive Refinishing I	SLO #1 Formula Lookup & Toner Pour	Students will be able to retrieve a vehicle's color code and formula information, select the correct quantity for the job, and correctly pour the toners to create the paint.
	2016-17 (Fall 2016)	ECC: ACRP 5C	Intermediate Automotive Refinishing I	SLO #2 Color Variants and Sprayout Cards	Students will be able to locate a vehicle's color code (and plant of manufacture if needed), and select the correct variant from a sample deck. The student will create a sprayout card of their chosen

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	2016-17 (Fall 2016)	ECC: ACRP 5C	Intermediate Automotive Refinishing I	SLO #2 Color Variants and Sprayout Cards	color and evaluate the card for color match.
	2016-17 (Fall 2016)	ECC: ACRP 5C	Intermediate Automotive Refinishing I	SLO #3 Paint Flaws & Corrections	Students will be able to identify by name different types of paint flaws and their causes. Students will also be able to identify which flaws can be corrected in the spray booth while wet, which ones must be corrected after they have dried, and the correction tools and technique for each.
	2016-17 (Spring 2017)	ECC: ACRP 1A	Introduction to Automotive Collision Repair	SLO #1 MIG Welds	Students will be able to set up and use a MIG welder properly and safely to perform three welds (lap, plug, reinforced butt) on automotive gauge steel in 'flat' position.
	2016-17 (Spring 2017)	ECC: ACRP 4C	Intermediate Auto Collision Repair I	SLO #1 Plastic Repair	Students will be able to locate a plastic part's type code and choose the appropriate repair method, tools, and materials. Students will then be able to apply the method and perform the repair.
	2016-17 (Spring 2017)	ECC: ACRP 4C	Intermediate Auto Collision Repair I	SLO #2 Panel Misalignment	Students will be able to identify panel misalignment due to improper installation, prior damage, and/or improper repair and choose the proper repair steps to correct the misalignment.
	2016-17 (Spring 2017)	ECC: ACRP 4C	Intermediate Auto Collision Repair I	SLO #3 Structural Parts	Students will be able to locate and properly name major unibody vehicle structural parts and assemblies.
	2016-17 (Spring 2017)	ECC: ACRP 5A	Beginning Automotive Painting I	SLO #1 VOC Tracking	Students will be able to monitor the type and amount of liquid material used for a job and record the data in the VOC (volatile organic compound) tracking log book.
	2016-17 (Spring 2017)	ECC: ACRP 5A	Beginning Automotive Painting I	SLO #2 Spray Gun Adjustment & Cleaning	Students will be able to thoroughly tear down a paint spray gun, clean all parts and surfaces using environmentally correct techniques and chemicals, and reassemble.
	2016-17 (Spring 2017)	ECC: ACRP 5A	Beginning Automotive Painting I	SLO #3 Mix & Spray Primer	Students will be able to mix and spray a given quantity of primer using the correct ratio and a locally compliant primer gun.
	2017-18 (Fall 2017)	ECC: ACRP 1B	Collision Repair Equipment and Welding Techniques	SLO #1 I-CAR MIG Welds	Students will be able to set up and use a MIG welder properly and safely to perform three welds (lap, plug, reinforced butt) on automotive gauge steel according to I-CAR standards.
	2017-18 (Fall 2017)	ECC: ACRP 1B	Collision Repair Equipment and Welding Techniques	SLO #2 Panel Misalignment	Students will be able to identify panel misalignment due to improper installation, prior damage, and/or improper repair and choose the proper repair steps to correct the misalignment.
	2017-18 (Fall 2017)	ECC: ACRP 1B	Collision Repair Equipment and Welding Techniques	SLO #3 Large Dent Removal	Students will be able to use dent removal equipment such as the Maxi welder or stud welder to remove a large dent from an automotive panel with no rear access.
	2017-18 (Fall 2017)	ECC: ACRP 4B	Beginning Automotive Collision Repair II	SLO #1 I-CAR MIG Welds	Students will be able to set up and use a MIG welder properly and safely to perform three welds (lap, plug, reinforced butt) on automotive gauge steel according to I-CAR standards.
	2017-18 (Fall 2017)	ECC: ACRP 4B	Beginning Automotive Collision Repair II	SLO #2 Large Dent Removal	Students will be able to use dent removal equipment such as the Maxi welder or stud welder and Porto Power to remove a large dent from an automotive panel with no rear access.
	2017-18 (Fall 2017)	ECC: ACRP 4B	Beginning Automotive	SLO #3 Vehicle Disassembly	Students will be able to read a damage estimate and systematically

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	2017-18 (Fall 2017)	ECC: ACRP 4B	Collision Repair II	Procedures	tear down a panel for repair and refinish according to the repairs required by the estimate. Students will also be able to properly store and label the removed parts for later reassembly.
	2017-18 (Spring 2018)	ECC: ACRP 1A	Introduction to Automotive Collision Repair	SLO #2 Mix & Spray Primer	Students will be able to mix and spray a given quantity of primer using the correct ratio and adjust, operate, and clean an HVLP primer gun.
	2017-18 (Spring 2018)	ECC: ACRP 1A	Introduction to Automotive Collision Repair	SLO #3 Mix, Apply & Shape Plastic Filler	Students will be able to mix, apply and shape plastic filler for primer on a repaired automotive panel.
	2017-18 (Spring 2018)	ECC: ACRP 2C	Automotive Refinishing Applications	SLO #1 Color Matching and Spot Blends	Students will be able to choose the proper color variant for color match and perform a spot blend on a repaired sample panel.
	2017-18 (Spring 2018)	ECC: ACRP 2C	Automotive Refinishing Applications	SLO #2 Two-Tone Plastic Bumpers	Students will be able to prepare and refinish a flexible two-tone plastic bumper using the correct chemicals and production shop procedures.
	2017-18 (Spring 2018)	ECC: ACRP 2C	Automotive Refinishing Applications	SLO #3 Tri-Coat Letdown Panel	Students will be able to differentiate between 2-stage and 3-stage color codes, obtain color formula information, pour toners to create basecoat and midcoat paints, and create a 5-step letdown panel to test the paint for color match to a sample chip.
	2018-19 (Fall 2018)	ECC: ACRP 1D	Automotive Component Systems Analysis and Repair	SLO #1 Plastic Repair	Students will be able to locate a plastic part's type code and choose the appropriate repair method, tools, and materials. Students will then be able to apply the method and perform the repair
	2018-19 (Fall 2018)	ECC: ACRP 1D	Automotive Component Systems Analysis and Repair	SLO #2 Suspension Components	Students will be able to identify damage to suspension components by measuring and visual inspection of a damaged vehicle. Students will be able to use proper nomenclature to write an informal estimate of what vehicle parts will need to be repaired and what parts need to be replaced.
	2018-19 (Fall 2018)	ECC: ACRP 1D	Automotive Component Systems Analysis and Repair	SLO #3 Hybrid & Airbag Safety	The student will be able to research, locate, safely disable and enable a hybrid vehicle’s high voltage system. The student will also be able to research, safely disable and enable a vehicle’s driver airbag.
	2018-19 (Fall 2018)	ECC: ACRP 4A	Beginning Automotive Collision Repair I	SLO #1 Tool Identification & Use	Students will be able to properly name tools unique to the collision repair trade and explain how they are used. Students will be able to analyze minor damage and select the correct hand tools to repair the damage.
	2018-19 (Fall 2018)	ECC: ACRP 4A	Beginning Automotive Collision Repair I	SLO #2 Vehicle Parts & Construction	Students will be able to identify and differentiate between unibody and full-frame vehicle designs. Students will be able to identify and properly name major non-structural vehicle parts and panels.
	2018-19 (Fall 2018)	ECC: ACRP 4A	Beginning Automotive Collision Repair I	SLO #3 Mix, Apply & Shape Plastic Filler	Students will be able to mix, apply and shape plastic filler for primer on a repaired automotive panel.
	2018-19 (Spring 2019)	ECC: ACRP 2A	Basic Automotive Painting - Refinishing	SLO #1 Mixing Primer	Students will be able to mix a given quantity of primer using the correct ratio and will be able to adjust, operate, and clean an HVLP primer gun.

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	2018-19 (Spring 2019)	ECC: ACRP 2A	Basic Automotive Painting - Refinishing	SLO #2 Panel Prep and Painting	Students will be able to differentiate between full panel repairs, spot repairs, and blend panels and be able to prepare each for refinishing using the correct tools and procedures.
	2018-19 (Spring 2019)	ECC: ACRP 2A	Basic Automotive Painting - Refinishing	SLO #3 Gun Cleaning & VOC Tracking	Students will be able to thoroughly tear down a paint spray gun, clean all parts and surfaces using environmentally correct techniques and chemicals, and reassemble. Students will also be able to monitor the type and amount of liquid material used and record the data in the VOC (volatile organic compound) tracking log book.
	2018-19 (Spring 2019)	ECC: ACRP 4B	Beginning Automotive Collision Repair II	SLO #1 I-CAR MIG Welds	Students will be able to set up and use a MIG welder properly and safely to perform three welds (lap, plug, reinforced butt) on automotive gauge steel according to I-CAR standards.
	2018-19 (Spring 2019)	ECC: ACRP 4B	Beginning Automotive Collision Repair II	SLO #2 Large Dent Removal	Students will be able to use dent removal equipment such as the Maxi welder or stud welder and Porto Power to remove a large dent from an automotive panel with no rear access.
	2018-19 (Spring 2019)	ECC: ACRP 4B	Beginning Automotive Collision Repair II	SLO #3 Vehicle Disassembly Procedures	Students will be able to read a damage estimate and systematically tear down a panel for repair and refinish according to the repairs required by the estimate. Students will also be able to properly store and label the removed parts for later reassembly.
	2019-20 (Fall 2019)	ECC: ACRP 1C	Major Collision Analysis and Repair	SLO #1 Measuring Vehicle Damage	Students will be able to identity, differentiate between, and measure direct and indirect vehicle damage. Students will be able to use proper nomenclature to write an informal estimate of what vehicle parts will need to be repaired and what parts need to be replaced.
	2019-20 (Fall 2019)	ECC: ACRP 1C	Major Collision Analysis and Repair	SLO #2 Types of Frame Damage	Given access to a damaged vehicle, students will be able to recognize one or more of the five types of frame damage and will be able to create a written repair strategy to fix the damage.
	2019-20 (Fall 2019)	ECC: ACRP 1C	Major Collision Analysis and Repair	SLO #3 Core Support Replacement	Students will be able to create a repair plan for replacing a damaged unibody vehicle's core support that includes analysis of the damage, an ordered list of parts for removal, tools needed to remove the core support, and location and number of welds needed to install the new support.
	2019-20 (Fall 2019)	ECC: ACRP 20	Automotive Collision Investigation	SLO #1 Restraint Systems	Students will be able to recognize, name, and diagnose damage to multiple types of occupant restraint systems including active restraints (seat belts) and passive restraints (automated seat belts, airbags).
	2019-20 (Fall 2019)	ECC: ACRP 20	Automotive Collision Investigation	SLO #2 Damage to Unitized and Full Frame Vehicles	Students will be able to recognize, name, and diagnose damage to unitized and full-frame vehicles and some of their major systems (drivetrain, brakes, suspension/steering).
	2019-20 (Fall 2019)	ECC: ACRP 20	Automotive Collision Investigation	SLO #3 Tire Identification & Construction	Students will be able to decode tire information such as wheel size, diameter, width, offset, production date, speed rating, traction rating, and temperature rating. Students will also be able to identify different types of tire construction (radial, bias ply) and identify

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	2019-20 (Fall 2019)	ECC: ACRP 20	Automotive Collision Investigation	SLO #3 Tire Identification & Construction	tires by skid marks observed after an accident.
	2019-20 (Fall 2019)	ECC: ACRP 3B	Computerized Collision Damage Estimating	SLO #1 Using CCC One Estimating Software	Create a computerized estimate for a non-structurally damaged front-hit vehicle using CCC One estimating software.
	2019-20 (Fall 2019)	ECC: ACRP 3B	Computerized Collision Damage Estimating	SLO #2 Using Audatex Software	Examine a structurally damaged full-frame vehicle and write a computerized estimate using Audatex software.
	2019-20 (Fall 2019)	ECC: ACRP 3B	Computerized Collision Damage Estimating	SLO #3 Using Mitchell Estimating Software	Create a computerized estimate for a structurally damaged unibody vehicle using Mitchell estimating software.
	2019-20 (Fall 2019)	ECC: ACRP 4C	Intermediate Auto Collision Repair I	SLO #1 Plastic Repair	Students will be able to locate a plastic part's type code and choose the appropriate repair method, tools, and materials. Students will then be able to apply the method and perform the repair.
	2019-20 (Fall 2019)	ECC: ACRP 4C	Intermediate Auto Collision Repair I	SLO #2 Panel Misalignment	Students will be able to identify panel misalignment due to improper installation, prior damage, and/or improper repair and choose the proper repair steps to correct the misalignment.
	2019-20 (Fall 2019)	ECC: ACRP 4C	Intermediate Auto Collision Repair I	SLO #3 Structural Parts	Students will be able to locate and properly name major unibody vehicle structural parts and assemblies.
	2019-20 (Fall 2019)	ECC: ACRP 5B	Beginning Automotive Painting II	SLO #1 Surface Prep	Students will be able to differentiate between and use the correct materials and techniques for preparing steel, aluminum, fiberglass, plastic, e-coat and existing paint for refinishing.
	2019-20 (Fall 2019)	ECC: ACRP 5B	Beginning Automotive Painting II	SLO #2 Parts Painting	Students will be able to clean a vehicle part or parts, mix paint according to the correct ratio and quantity needed, adjust their spray gun, and refinish the parts using locally compliant basecoat/clearcoat paints.
	2019-20 (Fall 2019)	ECC: ACRP 5B	Beginning Automotive Painting II	SLO #3 Corrosion Protection	Students will be able to identify surfaces and situations that require the application of corrosion protection on a vehicle. Students will also be able to analyze a surface and determine what kind of corrosion protection would best suit the vehicle.
	2019-20 (Fall 2019)	ECC: ACRP 5D	Intermediate Automotive Refinishing II	SLO #1 Spray Booth Types & Equipment	Students will be able to identify by name and differentiate between different kinds of paint spray booths and related equipment.
	2019-20 (Fall 2019)	ECC: ACRP 5D	Intermediate Automotive Refinishing II	SLO #2 Chemicals & Additives	Students will be able to choose the correct speed and type of chemical additives for a variety of different weather conditions, repair job size, and job turnaround time expectations.
	2019-20 (Fall 2019)	ECC: ACRP 5D	Intermediate Automotive Refinishing II	SLO #3 Topcoat Paint Systems	Students will be able to compare and contrast the three major types of topcoat paint systems for budget, speed of application, longevity, metallic layout, scratch resistance and ease of repair.
	2019-20 (Spring 2020)	ECC: ACRP 26	Automotive Accident Reconstruction	SLO #1 Occupant Dynamics	Students will be able to predict and evaluate vehicle occupant dynamics in given collision scenarios.
	2019-20 (Spring 2020)	ECC: ACRP 26	Automotive Accident Reconstruction	SLO #2 Photography and Computer Modeling	Students will be able to properly document vehicle damage using photography and/or computer modeling software for analysis of accident dynamics.
	2019-20 (Spring 2020)	ECC: ACRP 26	Automotive Accident	SLO #3 Velocity & Force	Students will be able to explain and determine a vehicle’s Principle

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	2019-20 (Spring 2020)	ECC: ACRP 26	Reconstruction	SLO #3 Velocity & Force	Direction of Force (PDOF), force line and Delta-V. Students will also be able to calculate combined velocities of multiple vehicles.
	2019-20 (Spring 2020)	ECC: ACRP 2B	Automotive Refinishing Materials and Equipment	SLO #1 Chemicals and Additives	Students will be able to analyze a given repair job and choose the correct chemicals and additives needed for the job based on weather conditions, job scope, job budget, and job deadline.
	2019-20 (Spring 2020)	ECC: ACRP 2B	Automotive Refinishing Materials and Equipment	SLO #2 Spray Booth Operation	Students will be able to set up, operate, and shut down a spray booth according to outside temperature and humidity, and the vehicle job and chemicals being sprayed.
	2019-20 (Spring 2020)	ECC: ACRP 2B	Automotive Refinishing Materials and Equipment	SLO #3 Formula Lookup & Toner Pour	Students will be able to retrieve a vehicle's color code and formula information, select the correct quantity for the job, and correctly pour the toners to create the paint.
	2019-20 (Spring 2020)	ECC: ACRP 4D	Intermediate Auto Collision Repair II	SLO #1 Porto Power	Students will be able to set up and use a Porto Power hydraulic ram and its attachments to remove a large panel dent or correct damage to a structural part.
	2019-20 (Spring 2020)	ECC: ACRP 4D	Intermediate Auto Collision Repair II	SLO #2 Pull Planning & Geometry	Students will be able to analyze damage to a given vehicle, determine the sequence and direction of the impact's damage, and create a diagram and pull plan to correct the damage using the frame rack, Power Post or Pull Dozer.
	2019-20 (Spring 2020)	ECC: ACRP 4D	Intermediate Auto Collision Repair II	SLO #3 Anchoring a Vehicle for Pulling	Students will be able to research and locate a given vehicle's anchor points for frame pulling, and choose the correct grade of chains and type of attachment accessories to anchor the vehicle to the floor or frame rack.
	2019-20 (Spring 2020)	ECC: ACRP 5A	Beginning Automotive Painting I	SLO #1 VOC Tracking	Students will be able to monitor the type and amount of liquid material used for a job and record the data in the VOC (volatile organic compound) tracking log book.
	2019-20 (Spring 2020)	ECC: ACRP 5A	Beginning Automotive Painting I	SLO #2 Spray Gun Adjustment & Cleaning	Students will be able to thoroughly tear down a paint spray gun, clean all parts and surfaces using environmentally correct techniques and chemicals, and reassemble.
	2019-20 (Spring 2020)	ECC: ACRP 5A	Beginning Automotive Painting I	SLO #3 Mix & Spray Primer	Students will be able to mix and spray a given quantity of primer using the correct ratio and a locally compliant primer gun.
	2019-20 (Spring 2020)	ECC: ACRP 5C	Intermediate Automotive Refinishing I	SLO #1 Formula Lookup & Toner Pour	Students will be able to retrieve a vehicle's color code and formula information, select the correct quantity for the job, and correctly pour the toners to create the paint.
	2019-20 (Spring 2020)	ECC: ACRP 5C	Intermediate Automotive Refinishing I	SLO #2 Color Variants and Sprayout Cards	Students will be able to locate a vehicle's color code (and plant of manufacture if needed), and select the correct variant from a sample deck. The student will create a sprayout card of their chosen color and evaluate the card for color match.
	2019-20 (Spring 2020)	ECC: ACRP 5C	Intermediate Automotive Refinishing I	SLO #3 Paint Flaws & Corrections	Students will be able to identify by name different types of paint flaws and their causes. Students will also be able to identify which flaws can be corrected in the spray booth while wet, which ones must be corrected after they have dried, and the correction tools and technique for each.

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	2020-21 (Fall 2020)	ECC: ACRP 1B	Collision Repair Equipment and Welding Techniques	SLO #1 I-CAR MIG Welds	Students will be able to set up and use a MIG welder properly and safely to perform three welds (lap, plug, reinforced butt) on automotive gauge steel according to I-CAR standards.
	2020-21 (Fall 2020)	ECC: ACRP 1B	Collision Repair Equipment and Welding Techniques	SLO #2 Panel Misalignment	Students will be able to identify panel misalignment due to improper installation, prior damage, and/or improper repair and choose the proper repair steps to correct the misalignment.
	2020-21 (Fall 2020)	ECC: ACRP 1B	Collision Repair Equipment and Welding Techniques	SLO #3 Large Dent Removal	Students will be able to use dent removal equipment such as the Maxi welder or stud welder to remove a large dent from an automotive panel with no rear access.
	2020-21 (Fall 2020)	ECC: ACRP 4A	Beginning Automotive Collision Repair I	SLO #1 Tool Identification & Use	Students will be able to properly name tools unique to the collision repair trade and explain how they are used. Students will be able to analyze minor damage and select the correct hand tools to repair the damage.
	2020-21 (Fall 2020)	ECC: ACRP 4A	Beginning Automotive Collision Repair I	SLO #2 Vehicle Parts & Construction	Students will be able to identify and differentiate between unibody and full-frame vehicle designs. Students will be able to identify and properly name major non-structural vehicle parts and panels.
	2020-21 (Fall 2020)	ECC: ACRP 4A	Beginning Automotive Collision Repair I	SLO #3 Mix, Apply & Shape Plastic Filler	Students will be able to mix, apply and shape plastic filler for primer on a repaired automotive panel.
	2020-21 (Spring 2021)	ECC: ACRP 22	Automotive Repair Fraud	SLO #1 Examining Accident Scenes	Students will be able to examine an accident scene (in person or via video/digital media) and formulate conclusions as to the details of the accident based on proper detection and investigation procedures and collection of evidence such as accident photography, witness marks and material transfer.
	2020-21 (Spring 2021)	ECC: ACRP 22	Automotive Repair Fraud	SLO #2 Staged Accidents	Students will be able to analyze both an accident- or fire-damaged vehicle and the accident scene to determine if the accident was staged (fraudulent).
	2020-21 (Spring 2021)	ECC: ACRP 22	Automotive Repair Fraud	SLO #3 VIN Swapping and Title Issues	Students will be able to recognize and locate Vehicle Identification Numbers (VIN) and determine if the VIN plate and/or labels have been altered, cloned, replaced or otherwise tampered with. Students will be able to explain how a vehicle title could be 'washed' and how to identify a washed title.
	2020-21 (Spring 2021)	ECC: ACRP 2C	Automotive Refinishing Applications	SLO #1 Color Matching and Spot Blends	Students will be able to choose the proper color variant for color match and perform a spot blend on a repaired sample panel.
	2020-21 (Spring 2021)	ECC: ACRP 2C	Automotive Refinishing Applications	SLO #2 Two-Tone Plastic Bumpers	Students will be able to prepare and refinish a flexible two-tone plastic bumper using the correct chemicals and production shop procedures.
	2020-21 (Spring 2021)	ECC: ACRP 2C	Automotive Refinishing Applications	SLO #3 Tri-Coat Letdown Panel	Students will be able to differentiate between 2-stage and 3-stage color codes, obtain color formula information, pour toners to create basecoat and midcoat paints, and create a 5-step letdown panel to test the paint for color match to a sample chip.
	2020-21 (Spring 2021)	ECC: ACRP 4B	Beginning Automotive Collision Repair II	SLO #1 I-CAR MIG Welds	Students will be able to set up and use a MIG welder properly and safely to perform three welds (lap, plug, reinforced butt) on

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	2020-21 (Spring 2021)	ECC: ACRP 4B	Beginning Automotive Collision Repair II	SLO #1 I-CAR MIG Welds	automotive gauge steel according to I-CAR standards.
	2020-21 (Spring 2021)	ECC: ACRP 4B	Beginning Automotive Collision Repair II	SLO #2 Large Dent Removal	Students will be able to use dent removal equipment such as the Maxi welder or stud welder and Porto Power to remove a large dent from an automotive panel with no rear access.
	2020-21 (Spring 2021)	ECC: ACRP 4B	Beginning Automotive Collision Repair II	SLO #3 Vehicle Disassembly Procedures	Students will be able to read a damage estimate and systematically tear down a panel for repair and refinish according to the repairs required by the estimate. Students will also be able to properly store and label the removed parts for later reassembly.
	2021-22 (Fall 2021)	ECC: ACRP 1D	Automotive Component Systems Analysis and Repair	SLO #1 Plastic Repair	Students will be able to locate a plastic part's type code and choose the appropriate repair method, tools, and materials. Students will then be able to apply the method and perform the repair
	2021-22 (Fall 2021)	ECC: ACRP 1D	Automotive Component Systems Analysis and Repair	SLO #2 Suspension Components	Students will be able to identify damage to suspension components by measuring and visual inspection of a damaged vehicle. Students will be able to use proper nomenclature to write an informal estimate of what vehicle parts will need to be repaired and what parts need to be replaced.
	2021-22 (Fall 2021)	ECC: ACRP 1D	Automotive Component Systems Analysis and Repair	SLO #3 Hybrid & Airbag Safety	The student will be able to research, locate, safely disable and enable a hybrid vehicle’s high voltage system. The student will also be able to research, safely disable and enable a vehicle’s driver airbag.
	2021-22 (Fall 2021)	ECC: ACRP 24	Automotive Collision Analysis	SLO #1 Point of Impact and Secondary Damage	Students will be able to analyze an accident-damaged vehicle, and from the collision deformation and damage to crush zones, determine the point of impact and identify secondary damage.
	2021-22 (Fall 2021)	ECC: ACRP 24	Automotive Collision Analysis	SLO #2 Speed Determination	Students will be able to analyze an accident-damaged vehicle and formulate an impact hypothesis including 4-point and 6-point speed determination.
	2021-22 (Fall 2021)	ECC: ACRP 24	Automotive Collision Analysis	SLO #3 Accident Causation Factors	Students will be able to use an Event Data Recorder (EDR) and vehicle/crash site observation to form a hypothesis explaining the cause of the accident and who is at fault.
	2021-22 (Fall 2021)	ECC: ACRP 4C	Intermediate Auto Collision Repair I	SLO #2 Panel Misalignment	Students will be able to identify panel misalignment due to improper installation, prior damage, and/or improper repair and choose the proper repair steps to correct the misalignment.
	2021-22 (Fall 2021)	ECC: ACRP 4C	Intermediate Auto Collision Repair I	SLO #3 Structural Parts	Students will be able to locate and properly name major unibody vehicle structural parts and assemblies.
	2021-22 (Fall 2021)	ECC: ACRP 5B	Beginning Automotive Painting II	SLO #1 Surface Prep	Students will be able to differentiate between and use the correct materials and techniques for preparing steel, aluminum, fiberglass, plastic, e-coat and existing paint for refinishing.
	2021-22 (Fall 2021)	ECC: ACRP 5B	Beginning Automotive Painting II	SLO #2 Parts Painting	Students will be able to clean a vehicle part or parts, mix paint according to the correct ratio and quantity needed, adjust their spray gun, and refinish the parts using locally compliant basecoat/clearcoat paints.

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	2021-22 (Fall 2021)	ECC: ACRP 5B	Beginning Automotive Painting II	SLO #3 Corrosion Protection	Students will be able to identify surfaces and situations that require the application of corrosion protection on a vehicle. Students will also be able to analyze a surface and determine what kind of corrosion protection would best suit the vehicle.
	2021-22 (Fall 2021)	ECC: ACRP 5D	Intermediate Automotive Refinishing II	SLO #1 Spray Booth Types & Equipment	Students will be able to identify by name and differentiate between different kinds of paint spray booths and related equipment.
	2021-22 (Fall 2021)	ECC: ACRP 5D	Intermediate Automotive Refinishing II	SLO #2 Chemicals & Additives	Students will be able to choose the correct speed and type of chemical additives for a variety of different weather conditions, repair job size, and job turnaround time expectations.
	2021-22 (Fall 2021)	ECC: ACRP 5D	Intermediate Automotive Refinishing II	SLO #3 Topcoat Paint Systems	Students will be able to compare and contrast the three major types of topcoat paint systems for budget, speed of application, longevity, metallic layout, scratch resistance and ease of repair.
	2021-22 (Spring 2022)	ECC: ACRP 1A	Introduction to Automotive Collision Repair	SLO #1 MIG Welds	Students will be able to set up and use a MIG welder properly and safely to perform three welds (lap, plug, reinforced butt) on automotive gauge steel in 'flat' position.
	2021-22 (Spring 2022)	ECC: ACRP 1A	Introduction to Automotive Collision Repair	SLO #2 Mix & Spray Primer	Students will be able to mix and spray a given quantity of primer using the correct ratio and adjust, operate, and clean an HVLP primer gun.
	2021-22 (Spring 2022)	ECC: ACRP 1A	Introduction to Automotive Collision Repair	SLO #3 Mix, Apply & Shape Plastic Filler	Students will be able to mix, apply and shape plastic filler for primer on a repaired automotive panel.
	2021-22 (Spring 2022)	ECC: ACRP 2A	Basic Automotive Painting - Refinishing	SLO #1 Mixing Primer	Students will be able to mix a given quantity of primer using the correct ratio and will be able to adjust, operate, and clean an HVLP primer gun.
	2021-22 (Spring 2022)	ECC: ACRP 2A	Basic Automotive Painting - Refinishing	SLO #2 Panel Prep and Painting	Students will be able to differentiate between full panel repairs, spot repairs, and blend panels and be able to prepare each for refinishing using the correct tools and procedures.
	2021-22 (Spring 2022)	ECC: ACRP 2A	Basic Automotive Painting - Refinishing	SLO #3 Gun Cleaning & VOC Tracking	Students will be able to thoroughly tear down a paint spray gun, clean all parts and surfaces using environmentally correct techniques and chemicals, and reassemble. Students will also be able to monitor the type and amount of liquid material used and record the data in the VOC (volatile organic compound) tracking log book.
	2021-22 (Spring 2022)	ECC: ACRP 4D	Intermediate Auto Collision Repair II	SLO #1 Porto Power	Students will be able to set up and use a Porto Power hydraulic ram and its attachments to remove a large panel dent or correct damage to a structural part.
	2021-22 (Spring 2022)	ECC: ACRP 4D	Intermediate Auto Collision Repair II	SLO #2 Pull Planning & Geometry	Students will be able to analyze damage to a given vehicle, determine the sequence and direction of the impact's damage, and create a diagram and pull plan to correct the damage using the frame rack, Power Post or Pull Dozer.
	2021-22 (Spring 2022)	ECC: ACRP 4D	Intermediate Auto Collision Repair II	SLO #3 Anchoring a Vehicle for Pulling	Students will be able to research and locate a given vehicle's anchor points for frame pulling, and choose the correct grade of chains and

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	2021-22 (Spring 2022)	ECC: ACRP 4D	Intermediate Auto Collision Repair II	SLO #3 Anchoring a Vehicle for Pulling	type of attachment accessories to anchor the vehicle to the floor or frame rack.
	2021-22 (Spring 2022)	ECC: ACRP 5A	Beginning Automotive Painting I	SLO #1 VOC Tracking	Students will be able to monitor the type and amount of liquid material used for a job and record the data in the VOC (volatile organic compound) tracking log book.
	2021-22 (Spring 2022)	ECC: ACRP 5A	Beginning Automotive Painting I	SLO #2 Spray Gun Adjustment & Cleaning	Students will be able to thoroughly tear down a paint spray gun, clean all parts and surfaces using environmentally correct techniques and chemicals, and reassemble.
	2021-22 (Spring 2022)	ECC: ACRP 5A	Beginning Automotive Painting I	SLO #3 Mix & Spray Primer	Students will be able to mix and spray a given quantity of primer using the correct ratio and a locally compliant primer gun.
	2021-22 (Spring 2022)	ECC: ACRP 5C	Intermediate Automotive Refinishing I	SLO #1 Formula Lookup & Toner Pour	Students will be able to retrieve a vehicle's color code and formula information, select the correct quantity for the job, and correctly pour the toners to create the paint.
	2021-22 (Spring 2022)	ECC: ACRP 5C	Intermediate Automotive Refinishing I	SLO #2 Color Variants and Sprayout Cards	Students will be able to locate a vehicle's color code (and plant of manufacture if needed), and select the correct variant from a sample deck. The student will create a sprayout card of their chosen color and evaluate the card for color match.
	2021-22 (Spring 2022)	ECC: ACRP 5C	Intermediate Automotive Refinishing I	SLO #3 Paint Flaws & Corrections	Students will be able to identify by name different types of paint flaws and their causes. Students will also be able to identify which flaws can be corrected in the spray booth while wet, which ones must be corrected after they have dried, and the correction tools and technique for each.
	2022-23 (Fall 2022)	ECC: ACRP 1C	Major Collision Analysis and Repair	SLO #1 Measuring Vehicle Damage	Students will be able to identity, differentiate between, and measure direct and indirect vehicle damage. Students will be able to use proper nomenclature to write an informal estimate of what vehicle parts will need to be repaired and what parts need to be replaced.
	2022-23 (Fall 2022)	ECC: ACRP 1C	Major Collision Analysis and Repair	SLO #2 Types of Frame Damage	Given access to a damaged vehicle, students will be able to recognize one or more of the five types of frame damage and will be able to create a written repair strategy to fix the damage.
	2022-23 (Fall 2022)	ECC: ACRP 1C	Major Collision Analysis and Repair	SLO #3 Core Support Replacement	Students will be able to create a repair plan for replacing a damaged unibody vehicle's core support that includes analysis of the damage, an ordered list of parts for removal, tools needed to remove the core support, and location and number of welds needed to install the new support.
	2022-23 (Fall 2022)	ECC: ACRP 20	Automotive Collision Investigation	SLO #1 Restraint Systems	Students will be able to recognize, name, and diagnose damage to multiple types of occupant restraint systems including active restraints (seat belts) and passive restraints (automated seat belts, airbags).
	2022-23 (Fall 2022)	ECC: ACRP 20	Automotive Collision Investigation	SLO #2 Damage to Unitized and Full Frame Vehicles	Students will be able to recognize, name, and diagnose damage to unitized and full-frame vehicles and some of their major systems (drivetrain, brakes, suspension/steering).

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	2022-23 (Fall 2022)	ECC: ACRP 20	Automotive Collision Investigation	SLO #3 Tire Identification & Construction	Students will be able to decode tire information such as wheel size, diameter, width, offset, production date, speed rating, traction rating, and temperature rating. Students will also be able to identify different types of tire construction (radial, bias ply) and identify tires by skid marks observed after an accident.
	2022-23 (Fall 2022)	ECC: ACRP 3B	Computerized Collision Damage Estimating	SLO #1 Using CCC One Estimating Software	Create a computerized estimate for a non-structurally damaged front-hit vehicle using CCC One estimating software.
	2022-23 (Fall 2022)	ECC: ACRP 3B	Computerized Collision Damage Estimating	SLO #2 Using Audatex Software	Examine a structurally damaged full-frame vehicle and write a computerized estimate using Audatex software.
	2022-23 (Fall 2022)	ECC: ACRP 3B	Computerized Collision Damage Estimating	SLO #3 Using Mitchell Estimating Software	Create a computerized estimate for a structurally damaged unibody vehicle using Mitchell estimating software.
	2022-23 (Fall 2022)	ECC: ACRP 4C	Intermediate Auto Collision Repair I	SLO #1 Plastic Repair	Students will be able to locate a plastic part's type code and choose the appropriate repair method, tools, and materials. Students will then be able to apply the method and perform the repair.