

District Technical Review Committee Meeting Agenda

Tuesday, May 3, 2022

2:30-4:00pm

CAADO 209/Zoom

Committee Members	Guests
<input type="checkbox"/> Steven Schmidt (Chair, MUS)	<input type="checkbox"/> Lijuan Zhai (AVC Ed Services and Institutional Effectiveness, RCCD)
<input type="checkbox"/> Jeannie Kim (Co-Chair, VC Ed. Services)	<input type="checkbox"/> Bryan Nicol (Staff, RCCD)
<input type="checkbox"/> Kelly Douglass (ENG, RCC)	<input type="checkbox"/> Ellen Brown-Drinkwater (AO, RCC)
<input type="checkbox"/> Brian Johnson (MAT, NOR)	<input type="checkbox"/> Nick Franco (AO, NOR)
<input type="checkbox"/> Ann Pfeifle (HIS, MVC)	<input type="checkbox"/> Jeanne Howard (AO, MVC)
	<input type="checkbox"/> Sabina Fernandez (Staff, MVC)
	<input type="checkbox"/> Casandra Greene (Staff, RCC)
	<input type="checkbox"/> Nicole Brown (Staff, NOR)
Additional Guests:	

Zoom Information

<https://rccd-edu.zoom.us/j/99867006916?pwd=NGhZc3d1dms0TUo1VTNPthy1a1BJZz09>

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Meeting ID: 998 6700 6916; Passcode: 653798

Agenda and Minutes

1. Approval of Agenda
2. Approval of Minutes – April 19, 2022

Action Items

1. Curriculum Proposals

Discussion Items

1. Course Materials Fees – Kelly Douglass

Program Documentation

1. New Programs
 - a. Norco – Data Analytics
 - b. Norco – Data Science
 - c. Norco – Noncredit Essential Revit
 - d. Norco – Noncredit Essential 3D Tour
 - e. Norco – Noncredit Essential CAD

- f. Norco – Noncredit Essential Fusion 360
- g. Norco – Noncredit Essential SolidWorks

Technical Review - Curriculum Proposals

Proposals for 05/03/2022

Courses

Course Major Modifications

		M	N	R	Notes
EAR 19	Observation and Assessment in Early Childhood Education	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
EAR 20	Child Growth and Development	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
EAR 24	Introduction to Curriculum	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
EAR 26	Health, Safety and Nutrition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
EAR 28	Principles and Practices of Teaching Young Children	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
EAR 30	Practicum in Early Childhood Education	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
EAR 42	Child, Family, and Community	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
H ETS 2	Introduction to Chicanx and Latinx Studies Held to await crosslisted HIS 31 (now HIS 61).	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
H HMS 50	Introduction to African American Families and Populations Held for crosslisted ETS partner.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
H HMS 51	Introduction to Latina and Latino American Families and Populations Held for crosslisted ETS partner.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
H HMS 52	Introduction to Asian American Families and Populations Held for crosslisted ETS partner.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
H HMS 53	Introduction to Native American Families and Populations Held for crosslisted ETS partner.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
H RLE 81	Real Estate Practices For RLE courses, various revisions to content needed.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
H RLE 82	Legal Aspects of Real Estate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
H RLE 83	Real Estate Finance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
H RLE 84	Real Estate Appraisal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
H RLE 85	Real Estate Economics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
H RLE 86	Escrow Procedures I	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Courses

Course Minor Modifications

		M	N	R	Notes
H	KIN V04			<input checked="" type="checkbox"/>	
	Basketball, Varsity, Men				
	Minutes attached do not show approval.				
H	PDS 808	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Critical Thinking, Problem Solving and Decision Making				
	Holding for CAT crosslisting.				
H	PDS 810	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Time Management				
	Holding for CAT crosslisting.				
H	PDS 811	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	High Impact Presentations and Proposals for the Work Place				
	Holding for CAT crosslisting.				
H	PDS 812	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Workplace Communication Strategies				
	Holding for CAT crosslisting.				

Distance Education

		M	N	R	Notes
H	DFT 31DE		<input checked="" type="checkbox"/>		
	Advanced Computer Aided Drafting (CAD)				
	Minutes attached are for the course approval, not the DE approval. Description states there are on campus required portions, but the proposal is marked as both hybrid and online. It also states exams will take place on campus.				
H	DFT 62DE		<input checked="" type="checkbox"/>		
	Basic Fusion 360				
	Minutes attached are for the course approval, not the DE approval. Description states there are on campus required portions, but the proposal is marked as both hybrid and online. It also states exams will take place on campus.				
H	DFT 63DE		<input checked="" type="checkbox"/>		
	Advanced Fusion 360				
	Minutes attached are for the course approval, not the DE approval. Description states there are on campus required portions, but the proposal is marked as both hybrid and online. It also states exams will take place on campus.				
	EST 10DE			<input checked="" type="checkbox"/>	
	Industrial Calculation				
	EST 30DE			<input checked="" type="checkbox"/>	
	Architectural Blueprint Reading				
	EST 32DE			<input checked="" type="checkbox"/>	
	Architectural Practice 1				
	EST 33DE			<input checked="" type="checkbox"/>	
	Materials of Construction				
	GEG 1HDE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Honors Physical Geography				
	GEG 5DE		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Weather and Climate				
	GEG 6DE		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Geography of the United States and Canada				
	GEG 7DE	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
	Map Interpretation and Analysis				
	GEG 8DE	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
	Introduction to Geographic Information Systems, with Lab				
	PHS 5DE			<input checked="" type="checkbox"/>	
	Weather and Climate				

Courses

New Courses

		M	N	R	Notes
H ARE 824	Revit I-Architectural Drafting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Mirrored courses contain "same as" language. Is it needed? Entrance skills are not linked.				
H ARE 825	Revit II-Advanced Architectural Drafting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Mirrored courses contain "same as" language. Is it needed? Entrance skills are not linked.				
H ARE 863	3D Tour, Virtual, Mixed, Augmented and Extended Reality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Mirrored courses contain "same as" language. Is it needed? Entrance skills are not linked.				
H CON 862	Print Reading for Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Contains same as "ARE 62" which is a course that does not exist.				
H CRP 402B	Slabs/Interior-Exterior Footings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	For CRP courses, units were adjusted down to nearest .5 unit value. Limitations on enrollment were added to every course requiring student is approved indentured apprentice. Course numbers were moved to 400s. Lab content was duplicated into lecture content based on curriculum from Santiago college. Many of the courses do not have minutes showing approval of the specific courses.				
H CRP 403A	Tilt-Up Introduction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H CRP 404	Lifting and Bracing Safety - Site Awareness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H CRP 404A	Lifting and Bracing Safety - Lifting Awareness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.
H CRP 404B	Poured-in-Place Wall Forms	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H CRP 404C	Print Reading - Symbols	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.
H CRP 405A	Wall-Column Forms/Cutting and Burning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hours in course content do not add up to the lecture and lab hours.
H CRP 405B	Site Work/Curb and Gutter	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H CRP 405C	Specialized Forms and Rigging	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H CRP 421A	Orientation - Hand Tools Safety	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.
H CRP 421B	Safety and Health Certifications - Hand & Power Tools Applications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.
H CRP 421C	Basic Wall Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H CRP 421E	Tool/Equipment Applications - Emergency Response Procedures	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.

Courses

New Courses

		M	N	R	Notes	
H	CRP 422A	Commercial Floor Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 422B	Basic Stairs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 422D	Exterior Finish Details	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 422E	Commercial Roof Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 423B	Basic Roof Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 423C	Advanced Roof Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 424A	Basic Commercial Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 424B	Advanced Commercial Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hours in course content do not add up to the lecture and lab hours.
H	CRP 424C	Panelized Roofing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 424D	Transit Level/Laser	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 424E	Total Station I	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 425	Welding Fabrication	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 425A	Foundations and Flatwork	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 425C	Advanced Stairs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 425D	Advanced Print Reading - Digital Planning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 426A	Tilt-Up Panel Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 426B	Wall Forming	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 426C	Gang Forms/Columns	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 426D	Abutments	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 427C	Beam and Deck Forming	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 427D	Stairs and Ramp Forming	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 428A	Bridge Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 428C	Intermediate Commercial Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 428E	Bridge Falsework	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 429A	Rigging	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 429BJ	Rigging Qualification Studies - Journeyworker	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Courses

New Courses

		M	N	R	Notes	
H	CRP 429C	Solar Installer Level 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 430A	Standard First Aid	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	A first aid course already exists in KIN.
H	CRP 433A	Cabinet Millwork and Assembly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 433B	Cabinet Installation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 433C	Show Case and Loose Store Fixtures	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 433D	Molding and Trims	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 434A	Plastic Laminates	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 434B	Solid and Stone Surfaces	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 434C	Stair Trim	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 434D	Doors and Door Hardware	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 435C	Exit and Electrical Security Devices	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 440CJ	Scaffold Erector, Standard 40 Hour - Journeyworker	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 440EJ	Scaffold Erector, Systems Scaffold - Journeyworker	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 441A	Powered Industrial Truck Operator - Rough Terrain	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 441B	Powered Industrial Truck Operator	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 461A	Acoustical Ceilings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 461B	Advanced Acoustical Ceiling Layout	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 461C	Advanced Acoustical Ceiling Installation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 462	Standard Acoustical Grids	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 463	Suspended Ceilings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 464	Acoustical Soffits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 465	Prefab/Sound Panels	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 466	Concealed/Glue-Up/Staple-Up Systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 467	Designer and Specialty Trims	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 468	Metal Pan and Security Systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 471A	Orientation - Power Tools Safety	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.

Courses

New Courses

		M	N	R	Notes		
H	CRP 471B	Safety and Health Certifications - Scaffold		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Title/Content appears to be duplicated with another CRP course.						
H	CRP 471C	Tool/Equipment Applications - Fall Protection		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Title/Content appears to be duplicated with another CRP course.						
H	CRP 472A	Basic Metal Framing		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 472B	Basic Lathing		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 472C	Advanced Lathing		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 473A	Framing Ceilings and Soffits		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 473B	Framing Suspended Ceilings		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 473C	Framing Curves and Arches		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 474A	Print Reading - Specifications		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Title/Content appears to be duplicated with another CRP course.						
H	CRP 474B	Advanced Print Reading		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 474C	Air, Moisture, and Thermal Barriers		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 475A	Light Gage Welding AWS - A		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 475B	Light Gage Welding LAC		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 475C	Light Gage Welding AWS - B		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 476A	Basic Hand Finishing		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 476B	Automatic Finishing Tools		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 477A	Drywall Installation/Finish Trims		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 477B	Advanced Hand Finishing		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
H	CRP 477C	Advanced Automatic Finishing Tools		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 478B	Advanced Metal Framing		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 478C	Wet Wall Finishes		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 478D	Ceiling and Soffit Finishing		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 479A	Drywall and Acoustical Ceilings		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	CRP 479C	Drywall Applications - Production Drywall Hanging		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Title/Content appears to be duplicated with another CRP course.						
H	CRP 479D	Drywall Applications - Drywall Estimating		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Title/Content appears to be duplicated with another CRP course.						

Courses

New Courses

		M	N	R	Notes
H	CRP 482B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	S/B Firestop/Fireproofing Procedures
H	CRP 482C		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Decorative Trims and Textures
H	CRP 483		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Door and Door Frames Title/Content appears to be duplicated.Title/Content appears to be duplicated with another CRP course.
H	CRP 483C		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Door/Door Frame Title/Content appears to be duplicated with another CRP course.
H	CRP 486A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exterior Insulation Finish Systems (EIFS)
H	CRP 489		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Freeform Lathing
H	CRP 490		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Residential Steel Stud Framing Has very little content.
H	CRP 494J		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Confined Space - Journeyworker
H	CRP 495		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Water Treatment Facilities
H	DFT 824		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Revit I-Architectural Drafting Has GESLOs attached.
H	DFT 830		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Computer Aided Drafting (CAD) Entrance skills are not linked. GESLOs are attached. Minutes do not match.
H	DFT 831		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Advanced Computer Aided Drafting (CAD)
H	DFT 842		<input checked="" type="checkbox"/>	<input type="checkbox"/>	SolidWorks I GESLOs can be removed. Course content 2a is blank.
H	DFT 842B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	SolidWorks II GESLOs can be removed. "Same as" language should be reviewed.
H	DFT 862		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Basic Fusion 360
H	DFT 863		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Advanced Fusion 360
H	EMS 56	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Advanced Emergency Medical Technician Short description does not match description. There may be a limitation on enrollment needed.
H	EMS 57	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Advanced Emergency Medical Technician (clinical) Limitation on enrollment may be needed. APP is listed as cross discipline.
H	ENE 35B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Dynamics Some fortmatting fixes needed. No entrance skills. Course content may be light. Course number may need to be changed.
H	ENE 35C		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Strength of Materials Some fortmatting fixes needed. No entrance skills. Course content may be light. Course number may need to be changed.

Courses

New Courses

		M	N	R	Notes	
H	ENE 842	SolidWorks I	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
H	ENE 842B	SolidWorks II	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

General Education

General Education Modifications

		M	N	R	Notes	
H	MAT 9	BSTEM College Algebra	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Rationale on proposal is blank. A rationale is needed to justify the inclusion of the course into general education.					
H	MUS 98	Careers and Entrepreneurship in Music and the Arts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Holding for further discussion. Course is also being re-evaluated at the state level.					

Programs

New Programs

		M	N	R	Notes	
Certificate						
H	CIS	Data Analytics	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Holding for regional consortium, advisory recommendation, and LMI.					
Degree						
H	CIS	Data Science	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Holding for regional consortium, advisory recommendation, and LMI.					
Non-Credit Certificate						
H	ARE	Noncredit Essential 3D Tour	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Holding for courses.					
H	ARE	Noncredit Essential Revit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Holding for courses.					
H	DFT	Noncredit Essential CAD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Holding for courses.					
H	DFT	Noncredit Essential Fusion 360	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Holding for courses.					
H	DFT	Noncredit Essential SolidWorks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Holding for courses.					

Program Modifications

		M	N	R	Notes	
Certificate						
H	HMS	Careers in Social Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
H	HMS	Social Work Administration Studies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Technical Review Committee

Proposals for Review for Meeting: 05/03/2022

Courses

Course Major Modifications

M N R Discussion

Action

EAR 19 **Observation and Assessment in Early Childhood Education**

Rationale: Updating course SLOs, Objectives and Content to remain aligned with the California Alignment Project and the CTC Teacher Performance Expectations. We also added new language around equity and diversity.

EAR 20 **Child Growth and Development**

Rationale: Updating course SLOs, Objectives and Content to remain aligned with the California Alignment Project and the CTC Teacher Performance Expectations. We also added new language around equity and diversity.

EAR 24 **Introduction to Curriculum**

Rationale: Updating SLOs, Objectives, and course content to maintain alignment with the California Alignment Project and to align with CTC Teacher Performance Expectations. Also included language around equity and diversity.

EAR 26 **Health, Safety and Nutrition**

Rationale: This course is one of the California Alignment Project Required 8 courses and needs modifying to bring it into alignment with the most current version, which is also aligned to the newly created Commission for Teacher Credentialing, Teacher Performance Expectations (TPEs) . Also updated with new language around equity and diversity.

EAR 28 **Principles and Practices of Teaching Young Children**

Rationale: This course is one of the California Alignment Project Required 8 courses and needs modifying to bring it into alignment with the most current version, which is also aligned to the newly created Commission for Teacher Credentialing, Teacher Performance Expectations (TPEs) . Also updated with new language around equity and diversity.

EAR 30 **Practicum in Early Childhood Education**

Rationale: This course is one of the California Alignment Project Required 8 courses and needs modifying to bring it into alignment with the most current version, which is also aligned to the newly created Commission for Teacher Credentialing, Teacher Performance Expectations (TPEs) . Also updated with new language around equity and diversity..

Courses

Course Major Modifications

		M	N	R	Discussion	Action
	EAR 42 Rationale: This course is one of the California Alignment Project Required 8 courses and needs modifying to bring it into alignment with the most current version, which is also aligned to the newly created Commission for Teacher Credentialing, Teacher Performance Expectations (TPEs) . Also updated with new language around equity and diversity.					
	Child, Family, and Community	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
H	ETS 2 Rationale: Per AB1460, this Ethnic Studies course is designed to fulfill the CSU Area F GE Breadth graduation requirement.					Held to await crosslisted HIS 31 (now HIS 61).
	Introduction to Chicanx and Latinx Studies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
H	HMS 50 Rationale: Revised the five SLOs as provided by the California State University Council on Ethnic Studies Core Competencies for Ethnic Studies System-wide Graduation Requirement, updated course content					Held for crosslisted ETS partner.
	Introduction to African American Families and Populations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
H	HMS 51 Rationale: Revised the five SLOs as provided by the California State University Council on Ethnic Studies Core Competencies for Ethnic Studies System-wide Graduation Requirement, updated course content					Held for crosslisted ETS partner.
	Introduction to Latina and Latino American Families and Populations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
H	HMS 52 Rationale: Revised the five SLOs as provided by the California State University Council on Ethnic Studies Core Competencies for Ethnic Studies System-wide Graduation Requirement, updated course content					Held for crosslisted ETS partner.
	Introduction to Asian American Families and Populations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
H	HMS 53 Rationale: Revised the five SLOs as provided by the California State University Council on Ethnic Studies Core Competencies for Ethnic Studies System-wide Graduation Requirement, updated course content					Held for crosslisted ETS partner.
	Introduction to Native American Families and Populations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
H	RLE 81 Rationale: This course is being updated as a major modification to include current and relevant SLOs, detailed course content, detailed assignments and updated textbook information.					For RLE courses, various revisions to content needed.
	Real Estate Practices	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Courses

Course Major Modifications

		M	N	R	Discussion	Action
H	RLE 82 Rationale: This course is being updated as a major modification to include current and relevant SLOs, detailed course content, detailed assignments and updated textbook information.					
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
H	RLE 83 Rationale: This course is being updated as a major modification to include current and relevant SLOs, detailed course content, detailed assignments and updated textbook information.					
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
H	RLE 84 Rationale: This course is being updated as a major modification to include current and relevant SLOs, detailed course content, detailed assignments and updated textbook information.					
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
H	RLE 85 Rationale: This course is being updated as a major modification to include current and relevant SLOs, detailed course content, detailed assignments and updated textbook information.					
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
H	RLE 86 Rationale: This course is being updated as a major modification to include current and relevant SLOs, detailed course content, detailed assignments and updated textbook information.					
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

Course Minor Modifications

		M	N	R	Discussion	Action
H	KIN V04 Rationale: Update course materials.					
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Minutes attached do not show approval.	
H	PDS 808 Rationale: Two year CTE review. No changes needed.					
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Holding for CAT crosslisting.	
H	PDS 810 Rationale: Two year CTE review. No changes needed.					
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Holding for CAT crosslisting.	
H	PDS 811 Rationale: Two year CTE review. No changes needed.					
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Holding for CAT crosslisting.	

Courses

Course Minor Modifications

		M	N	R	Discussion	Action
H	PDS 812 Rationale: Workplace Communication Strategies Two year CTE review. No changes needed.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Holding for CAT crosslisting.	

Distance Education

		M	N	R	Discussion	Action
H	DFT 31DE Rationale: Advanced Computer Aided Drafting (CAD)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Minutes attached are for the course approval, not the DE approval. Description states there are on campus required portions, but the proposal is marked as both hybrid and online. It also states exams will take place on campus.	
H	DFT 62DE Rationale: Basic Fusion 360	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Minutes attached are for the course approval, not the DE approval. Description states there are on campus required portions, but the proposal is marked as both hybrid and online. It also states exams will take place on campus.	
H	DFT 63DE Rationale: Advanced Fusion 360	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Minutes attached are for the course approval, not the DE approval. Description states there are on campus required portions, but the proposal is marked as both hybrid and online. It also states exams will take place on campus.	
	EST 10DE Rationale: Industrial Calculation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	EST 30DE Rationale: Architectural Blueprint Reading	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	EST 32DE Rationale: Architectural Practice 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	EST 33DE Rationale: Materials of Construction	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	GEG 1HDE Rationale: Honors Physical Geography	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Courses

Distance Education

		M	N	R	Discussion	Action
GEG 5DE	Weather and Climate	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Rationale:						
GEG 6DE	Geography of the United States and Canada	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Rationale:						
GEG 7DE	Map Interpretation and Analysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Rationale:						
GEG 8DE	Introduction to Geographic Information Systems, with Lab	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Rationale:						
PHS 5DE	Weather and Climate	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Rationale:						

New Courses

		M	N	R	Discussion	Action
H ARE 824	Revit I-Architectural Drafting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mirrored courses contain "same as" language. Is it needed? Entrance skills are not linked.	
Rationale: Developed as a part of a noncredit certificate.						
H ARE 825	Revit II-Advanced Architectural Drafting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mirrored courses contain "same as" language. Is it needed? Entrance skills are not linked.	
Rationale: Developed as a part of a noncredit certificate.						
H ARE 863	3D Tour, Virtual, Mixed, Augmented and Extended Reality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mirrored courses contain "same as" language. Is it needed? Entrance skills are not linked.	
Rationale: Developed as a part of a noncredit certificate.						
H CON 862	Print Reading for Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Contains same as "ARE 62" which is a course that does not exist.	
Rationale: Developed as a part of a noncredit certificate.						
H CRP 402B	Slabs/Interior-Exterior Footings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	For CRP courses, units were adjusted down to nearest .5 unit value. Limitations on enrollment were added to every course requiring student is approved indentured apprentice. Course numbers were moved to 400s. Lab content was duplicated into lecture content based on curriculum from Santiago college. Many of the courses do not have minutes showing approval of the specific courses.	
Rationale:						
H CRP 403A	Tilt-Up Introduction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Rationale:						

Courses

New Courses

		M	N	R	Discussion	Action
H	CRP 404 Rationale:			<input checked="" type="checkbox"/>		
	Lifting and Bracing Safety - Site Awareness An agreement (Attached MOU) made with Southwest Carpenters Union to have them train our students with the courses we develop based on Carpenter's Union Curriculum and Santiago Valley College. These courses are same as 400 series apprenticeship programs, taught by professionals on the job site. (No New hire required). We are planning to schedule this program/courses in Fall 22					
H	CRP 404A Rationale:			<input checked="" type="checkbox"/>		Title/Content appears to be duplicated with another CRP course.
H	CRP 404B Rationale:			<input checked="" type="checkbox"/>		
H	CRP 404C Rationale:			<input checked="" type="checkbox"/>		Title/Content appears to be duplicated with another CRP course.
H	CRP 405A Rationale:			<input checked="" type="checkbox"/>		Hours in course content do not add up to the lecture and lab hours.
H	CRP 405B Rationale:			<input checked="" type="checkbox"/>		
H	CRP 405C Rationale:			<input checked="" type="checkbox"/>		
H	CRP 421A Rationale:			<input checked="" type="checkbox"/>		Title/Content appears to be duplicated with another CRP course.
H	CRP 421B Rationale:			<input checked="" type="checkbox"/>		Title/Content appears to be duplicated with another CRP course.
H	CRP 421C Rationale:			<input checked="" type="checkbox"/>		
H	CRP 421E Rationale:			<input checked="" type="checkbox"/>		Title/Content appears to be duplicated with another CRP course.
H	CRP 422A Rationale:			<input checked="" type="checkbox"/>		
H	CRP 422B Rationale:			<input checked="" type="checkbox"/>		

Technical Review Proposals for 05/03/2022

Proposals marked with a red "H" were held at a previous Tech Review meeting.

Documents in the Programs section without an underline have not yet been received by the Tech Review Committee.

Courses

New Courses

			M	N	R	Discussion	Action
H	CRP 422D	Exterior Finish Details	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 422E	Commercial Roof Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 423B	Basic Roof Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 423C	Advanced Roof Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 424A	Basic Commercial Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 424B	Advanced Commercial Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hours in course content do not add up to the lecture and lab hours.	
	Rationale:						
H	CRP 424C	Panelized Roofing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 424D	Transit Level/Laser	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 424E	Total Station I	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 425	Welding Fabrication	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 425A	Foundations and Flatwork	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 425C	Advanced Stairs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 425D	Advanced Print Reading - Digital Planning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 426A	Tilt-Up Panel Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 426B	Wall Forming	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						

Courses

New Courses

			M	N	R	Discussion	Action
H	CRP 426C	Gang Forms/Columns	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 426D	Abutments	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 427C	Beam and Deck Forming	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 427D	Stairs and Ramp Forming	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 428A	Bridge Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 428C	Intermediate Commercial Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 428E	Bridge Falsework	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 429A	Rigging	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 429BJ	Rigging Qualification Studies - Journeyworker	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 429C	Solar Installer Level 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 430A	Standard First Aid	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	A first aid course already exists in KIN.	
	Rationale:						
H	CRP 433A	Cabinet Millwork and Assembly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 433B	Cabinet Installation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 433C	Show Case and Loose Store Fixtures	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 433D	Molding and Trims	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						

Courses

New Courses

			M	N	R	Discussion	Action
H	CRP 434A	Plastic Laminates	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 434B	Solid and Stone Surfaces	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 434C	Stair Trim	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 434D	Doors and Door Hardware	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 435C	Exit and Electrical Security Devices	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 440CJ	Scaffold Erector, Standard 40 Hour - Journeyworker	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 440EJ	Scaffold Erector, Systems Scaffold - Journeyworker	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 441A	Powered Industrial Truck Operator - Rough Terrain	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 441B	Powered Industrial Truck Operator	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 461A	Acoustical Ceilings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 461B	Advanced Acoustical Ceiling Layout	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 461C	Advanced Acoustical Ceiling Installation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 462	Standard Acoustical Grids	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 463	Suspended Ceilings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 464	Acoustical Soffits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						

Courses

New Courses

		M	N	R	Discussion	Action
H	CRP 465 Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Prefab/Sound Panels	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 466 Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Concealed/Glue-Up/Staple-Up Systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 467 Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Designer and Specialty Trims	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 468 Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Metal Pan and Security Systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 471A Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.	
	Orientation - Power Tools Safety	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 471B Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.	
	Safety and Health Certifications - Scaffold	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 471C Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.	
	Tool/Equipment Applications - Fall Protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 472A Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Basic Metal Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 472B Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Basic Lathing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 472C Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Advanced Lathing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 473A Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Framing Ceilings and Soffits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 473B Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Framing Suspended Ceilings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 473C Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Framing Curves and Arches	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 474A Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.	
	Print Reading - Specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 474B Rationale:		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Advanced Print Reading	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Courses

New Courses

			M	N	R	Discussion	Action
H	CRP 474C	Air, Moisture, and Thermal Barriers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 475A	Light Gage Welding AWS - A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 475B	Light Gage Welding LAC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 475C	Light Gage Welding AWS - B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 476A	Basic Hand Finishing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 476B	Automatic Finishing Tools	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 477A	Drywall Installation/Finish Trims	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 477B	Advanced Hand Finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Rationale:						
H	CRP 477C	Advanced Automatic Finishing Tools	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 478B	Advanced Metal Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 478C	Wet Wall Finishes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 478D	Ceiling and Soffit Finishing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 479A	Drywall and Acoustical Ceilings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Rationale:						
H	CRP 479C	Drywall Applications - Production Drywall Hanging	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.	
	Rationale:						
H	CRP 479D	Drywall Applications - Drywall Estimating	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.	
	Rationale:						

Courses

New Courses

			M	N	R	Discussion	Action
H	CRP 482B Rationale:	S/B Firestop/Fireproofing Procedures	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 482C Rationale:	Decorative Trims and Textures	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 483 Rationale:	Door and Door Frames	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated. Title/Content appears to be duplicated with another CRP course.	
H	CRP 483C Rationale:	Door/Door Frame	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Title/Content appears to be duplicated with another CRP course.	
H	CRP 486A Rationale:	Exterior Insulation Finish Systems (EIFS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 489 Rationale:	Freeform Lathing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 490 Rationale:	Residential Steel Stud Framing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Has very little content.	
H	CRP 494J Rationale:	Confined Space - Journeyworker	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	CRP 495 Rationale:	Water Treatment Facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	DFT 824 Rationale:	Revit I-Architectural Drafting Developed as a part of a noncredit certificate.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Has GESLOs attached.	
H	DFT 830 Rationale:	Computer Aided Drafting (CAD) Developed as a part of a noncredit certificate.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Entrance skills are not linked. GESLOs are attached. Minutes do not match.	
H	DFT 831 Rationale:	Advanced Computer Aided Drafting (CAD) Developed as a part of a noncredit certificate.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	DFT 842 Rationale:	SolidWorks I Developed as a part of a noncredit certificate.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GESLOs can be removed. Course content 2a is blank.	
H	DFT 842B Rationale:	SolidWorks II Developed as a part of a noncredit certificate.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GESLOs can be removed. "Same as" language should be reviewed.	

Courses

New Courses

		M	N	R	Discussion	Action
H	DFT 862 Rationale: Basic Fusion 360 Emerging technology for makers. A part of "Essential Fusion 360" certificate.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	DFT 863 Rationale: Advanced Fusion 360 Developed as a part of a noncredit certificate.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	EMS 56 Rationale: Advanced Emergency Medical Technician There are 4 different levels of training for EMS and this course will complete the offerings of all four courses. The partners that we serve are requesting the training for their fire personnel and this course would fill that gap.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Short description does not match description. There may be a limitation on enrollment needed.	
H	EMS 57 Rationale: Advanced Emergency Medical Technician (clinical) The course is being designed to meet the needs of our tribal partners that are training their EMTs to the Advanced EMT level. This course is supported by Riverside County EMS Agency and the government agency approved the creation of this course.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Limitation on enrollment may be needed. APP is listed as cross discipline.	
H	ENE 35B Rationale: Dynamics The course is needed to support transfer student needs for multiple engineering majors. The course is an extension of ENE 35 statics which Norco College currently offers.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some formatting fixes needed. No entrance skills. Course content may be light. Course number may need to be changed.	
H	ENE 35C Rationale: Strength of Materials The course is needed to support engineering transfer students prepare and satisfy transfer requirements.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some formatting fixes needed. No entrance skills. Course content may be light. Course number may need to be changed.	
H	ENE 842 Rationale: SolidWorks I Developed as a part of a noncredit certificate.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
H	ENE 842B Rationale: SolidWorks II Developed as a part of a noncredit certificate.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

General Education

General Education Modifications

M N R

Discussion

Action

H **MAT 9** **BSTEM College Algebra**
Rationale: The Math discipline has voted to approve Math 9 to satisfy the RCCD GE requirement in Language and Rationality.

Rationale on proposal is blank. A rationale is needed to justify the inclusion of the course into general education.

H **MUS 98** **Careers and Entrepreneurship in Music and the Arts**
Rationale: Proposal to include MUS 98 Careers in Music in RCCD GE Area E 2

Holding for further discussion. Course is also being re-evaluated at the state level.

Programs

New Programs

M N R

Discussion

Action

Certificate

H **CIS** **Data Analytics**
Rationale: This program addresses industry's continuing demands for professionals to test and build tools to meet the data quality validation needs for a cloud platform-based application and building enterprise analytics of large data volume. Based on Inland Empire/Desert region Labor Market Information report, the data-analysis occupation is projected to have 189 annual job openings, increasing employment by 8% through 2024. The 10th percentile hourly wage for data analysis related occupations exceeds the Family Needs Calculator self-sustainability rate, indicating that approximately the top 90% of workers in this occupation earn self-sufficient hourly wages. The courses in this program will also align with university courses, which will permit students to transfer to further develop skills and knowledge in the areas of Data Science.

Holding for regional consortium, advisory recommendation, and LMI.

Documents: [Narrative](#) [LMI](#) [Advisory Committee](#) [Regional Consortium](#)

Programs

New Programs

M N R

Discussion

Action

Degree

H	CIS	Data Science	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Holding for regional consortium, advisory recommendation, and LMI.
	Rationale:	This program addresses industry's continuing demands for professionals to test and build tools to meet the data quality validation needs for a cloud platform-based application and building enterprise analytics of large data volume. Based on Inland Empire/Desert region Labor Market Information report, the data-analysis occupation is projected to have 189 annual job openings, increasing employment by 8% through 2024. The 10th percentile hourly wage for data analysis related occupations exceeds the Family Needs Calculator self-sustainability rate, indicating that approximately the top 90% of workers in this occupation earn self-sufficient hourly wages. The courses in this program will also align with university courses, which will permit students to transfer to further develop skills and knowledge in the areas of Data Science.				
	Documents:	Narrative	LMI	Advisory Committee	Regional Consortium	

Non-Credit Certificate

H	ARE	Noncredit Essential 3D Tour	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Holding for courses.
	Rationale:	To make this program available to a broader range of students and professionals who just need the training and increase the level of skills in the community.				
	Documents:	Narrative	Employment Potential			
H	ARE	Noncredit Essential Revit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Holding for courses.
	Rationale:	To make this program available to a broader range of student and professionals who just need the training and increase the level of skills in the community.				
	Documents:	Narrative	Employment Potential			
H	DFT	Noncredit Essential CAD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Holding for courses.
	Rationale:	To make this program available to a broader range of students and professionals who just need the training and increase the level of skills in the community.				
	Documents:	Narrative	Employment Potential			
H	DFT	Noncredit Essential Fusion 360	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Holding for courses.
	Rationale:	To make this program available to a broader range of student and professionals who just need the training and increase the level of skills in the community.				
	Documents:	Narrative	Employment Potential			

Programs

New Programs

M N R Discussion

Action

Non-Credit Certificate

H DFT Noncredit Essential SolidWorks Holding for courses.

Rationale: To make this program available to a broader range of student and professionals who just need the training and increase the level of skills in the community.

Documents: [Narrative](#) [Employment Potential](#)

Program Modifications

M N R Discussion

Action

Certificate

H HMS Careers in Social Work

Rationale:

H HMS Social Work Administration Studies

Rationale:

Program Outline

Title: Data Analytics

Moreno Valley College **Norco College** **Riverside City College**
(Please note: All degrees and certificates are college specific. If multiple colleges wish to adopt this degree or certificate, a separate proposal and college specific supporting documents are required.)

TOPs Code: 070730

CIP Code: 11.0501

Type of Program:

Certificate of Achievement only Associate’s Degree only Certificate and Degree

Type of Associate Degree:

Associate of Arts Associate of Science

This is a:

New certificate/degree Modification to an existing certificate/degree
 New Local certificate Modification to an existing local certificate

If this is a modification to an existing certificate/degree, please specify the changes being made:
(Please be specific! Indicate any changes to title, description, learning outcomes, courses, unit values, etc.)

Rationale:

This program addresses industry’s continuing demands for professionals to test and build tools to meet the data quality validation needs for a cloud platform-based application and building enterprise analytics of large data volume. Based on Inland Empire/Desert region Labor Market Information report, the data-analysis occupation is projected to have 189 annual job openings, increasing employment by 8% through 2024. The 10th percentile hourly wage for data analysis related occupations exceeds the Family Needs Calculator self-sustainability rate, indicating that approximately the top 90% of workers in this occupation earn self-sufficient hourly wages. The courses in this program will also align with university courses, which will permit students to transfer to further develop skills and knowledge in the areas of Data Science.

Required Documentation

Please submit this form and the documents outlined below to your college coordinator and the District Technical Review committee via TechReview@rccd.edu. Please do not submit your proposal until all of the documentation below is complete.

All Degrees and Certificates

- Discipline
- Department minutes showing approval
- Narrative *(see following page)*
- Transfer preparation documentation *(only if applicable)*

Degrees and Certificates of 8 Units or More with Vocational TOPs Codes

In addition to the above, all degrees and certificates of 8 units or more with a vocational TOPs code must include the following to be submitted to the State Chancellor’s Office for approval.*

- Labor Market Information and Analysis *(required for new programs and modifications; also be recent within 2 years).*-
- Advisory Committee Recommendation *(Required for new programs and may be required for modifications. Check with the curriculum coordinator at your college to determine if a new recommendation is necessary.)*
- Regional Consortium Recommendation *(required for new programs only)*

**While certificates between 8 and less than 16 units can be approved locally and are not required to be submitted to the State Chancellor's Office for approval, certificates that have not been approved by the State Chancellor's Office cannot appear on student transcripts and the college cannot receive apportionment for program completions. Additionally, any certificate of less than 8 units can only be approved locally. These certificates also cannot appear on student transcripts and colleges cannot receive apportionment for completion.*

Program Narrative

Item 1. Program Goals and Objectives

Data Analytics Certificate of Achievement provides students with a foundation in data analysis, in which students will model, synthesize, and present large data sets for business decision making. Courses will focus on the techniques and tools to extract data from various data sources, model, integrate data, and visualize data for organizational decision making and intelligence gathering. The program prepares students for entry-level jobs, or to help them advance into careers, such as Operation Data Analyst, Business Analytics Specialist, System Data Analyst, Data Visualization Developer, Test Data Analyst, and Market Research Analyst. Topics covered will include statistics, research methods, SQL queries, systems analysis, design, and applied predictive analytics.

Program Learning Outcomes:

Upon successful completion of this program, students should be able to:

- Identify, extract, clean and maintain data in databases.
- Interpret and evaluate data trends or patterns in complex data sets using statistical techniques, analytic methods, and tools.
- Create and monitor reports to preserve data quality, identify critical issues, trends, and potential solutions.

Item 2. Catalog Description

Data Analytics Certificate of Achievement provides students with a foundation in data analysis, in which students will model, synthesize, and present large data sets for business decision making. Courses will focus on the techniques and tools to extract data from various data sources, model, integrate data, and visualize data for organizational decision making and intelligence gathering. The program prepares students for entry-level jobs, or to help them advance into careers, such as Operation Data Analyst, Business Analytics Specialist, System Data Analyst, Data Visualization Developer, Test Data Analyst, and Market Research Analyst. Topics covered will include statistics, research methods, SQL queries, systems analysis, design, and applied predictive analytics.

Program Requirement:

Before entering this program, students must complete MAT-35 and MAT-10 or MAT-23 or qualifying placement level in mathematics to be successful in courses in the program.

Program Learning Outcomes:

Upon successful completion of this program, students should be able to:

- Identify, extract, clean and maintain data in databases.
- Interpret and evaluate data trends or patterns in complex data sets using statistical techniques, analytic methods, and tools.
- Create and monitor reports to preserve data quality, identify critical issues, trends, and potential solutions.

Required Courses: 30 units

Course	Title	Units	Sequencing
CIS-1A	Introduction to Computer Information Systems	3	Semester 1
MAT-70A/CIS-70A	Foundations of Data Science	3	Semester 1
CIS/CSC-61	Introduction to Database Theory	3	Semester 1
CIS-30A	Introduction to Python Programming	3	Semester 1

or CSC-8	or Programming Concepts: Python		
MAT-70B	Statistics for STEM	4	Semester 2
MAT-1A	Calculus I	4	Semester 2
CIS/CSC-63	Introduction to Structured Query Language (SQL)	3	Semester 2
MAT-1B	Calculus II	4	Semester 3
CIS-30E	Advanced Python Programming	3	Semester 3

Elective Courses: 3 units

Course	Title	Units	Sequencing
CIS-68A or	Introduction to Machine Learning	3	Semester 3
CIS-68B or	Big Data Fundamentals	3	Semester 3
CIS/CSC-2 or	Fundamental of Systems Analysis	3	Semester 3
CIS/CSC-20	Systems Analysis and Design	3	Semester 3

Total Program Units: 33 units

Item 3. Program Requirements

Required Courses: 30 units

Course	Title	Units	Sequencing
CIS-1A	Introduction to Computer Information Systems	3	Semester 1
MAT-70A/CIS-70A	Foundations of Data Science	3	Semester 1
CIS/CSC-61	Introduction to Database Theory	3	Semester 1
CIS-30A or CSC-8	Introduction to Python Programming or Programming Concepts: Python	3	Semester 1
MAT-70B	Statistics for STEM	4	Semester 2
MAT-1A or MAT-1AH	Calculus I / Honors Calculus I	4	Semester 2
CIS/CSC-63	Introduction to Structured Query Language	3	Semester 2
MAT-1B	Calculus II	4	Semester 3
CIS-30E	Advanced Python Programming	3	Semester 3

Elective Courses: 3 units

Course	Title	Units	Sequencing
CIS-68A or	Introduction to Machine Learning	3	Semester 3
CIS-68B or	Big Data Fundamentals	3	Semester 3
CIS/CSC-2 or	Fundamental of System Analysis	3	Semester 3
CIS/CSC-20	Systems Analysis and Design	3	Semester 3

Total Program Units: 33 units

Item 4. Master Planning

This cross-discipline certificate will increase the diversity in Inland Empire workforce by providing technical training emphasis in Career Technical Education. This program will increase the diversity of student population in STEM, Computer Information Systems and Mathematics, aligning with Guided Pathway to support student success. The growth of the program will also address to need to improve special populations in STEM, such as potentially increasing the population of female students and professionals in the areas of STEM. The program is expected to have a steady growth after the initial year with program promotional outreach to local high schools and community centers.

Item 5. Enrollment and Completer Projections

Enrollment Projects for courses are as followed:

Required courses:

- CIS-1A: 49 students
- MAT-27B: 49 students
- CIS/CSC-61: 49 students
- CIS-30A or CSC-8: 49 students
- CIS-68A/MAT27A: 49 students
- CIS-68B: 49 students

Electives:

- CIS-68C: 49 students
- CIS-2: 49 students
- CIS-20: 49 students

This program is expected to have 50 to 100 students by Spring 2023.

Item 6. Place of Program in Curriculum/Similar Programs

Most of the courses in the program are active courses that are currently offered at all three campuses in RCCD. The new courses will be incorporated into the program seamlessly. No other programs are similar or the same as the proposed Data Analytics program.

Item 7. Similar Programs at Other Colleges in Service Area

No other college in the region offers similar program. This program offers opportunities for students to acquire technical training that will help them build careers and contribute to Inland Empire social-economic improvement. It also provides local organizations access to a growing workforce and training resources for their incumbent workers.

Item 8. Transfer Preparation Information (if applicable)

Existing courses have been articulated for UC and CSU transfer. New courses can be articulated as transferrable courses at University of California Riverside, California State University San Bernardino, Cal-Poly Pomona, and other institutions. The courses in this certificate can be used toward Associate Degree to Transfer for Data Science for UC and CSU.

Program Outline

Title: Data Science

Originator: Caroline Hutchings

Date 3/9/2022

Department: School of Science, Technology, Engineering, and Mathematics

Moreno Valley College **Norco College** **Riverside City College**
(Please note: All degrees and certificates are college specific. If multiple colleges wish to adopt this degree or certificate, a separate proposal and college specific supporting documents are required.)

TOPs Code: 0707.30 CIP Code: 11.0501

Type of Program:

Certificate of Achievement only Locally approved certificate (8-units or less) only
 Associate Degree only Certificate of Achievement and Degree

Type of Associate Degree: Associate of Arts Associate of Science

This is a: New certificate/degree Modification to an existing certificate/degree

If this is a modification to an existing certificate/degree, please specify the changes being made:
(Please be specific! Indicate any changes to title, description, learning outcomes, courses, unit values, etc.)

Rationale:

This program addresses industry’s continuing demands for professionals to test and build tools to meet the data quality validation needs for a cloud platform-based application and building enterprise analytics of large data volume. Based on Inland Empire/Desert region Labor Market Information report, the data-analysis occupation is projected to have 189 annual job openings, increasing employment by 8% through 2024. The 10th percentile hourly wage for data analysis related occupations exceeds the Family Needs Calculator self-sustainability rate, indicating that approximately the top 90% of workers in this occupation earn self-sufficient hourly wages. The courses in this program will also align with university courses, which will permit students to transfer to further develop skills and knowledge in the areas of Data Science.

Required Documentation

Please submit this form and the documents outlined below to your college coordinator and the District Technical Review committee via TechReview@rccd.edu. Please do not submit your proposal until all of the documentation below is complete.

All Degrees and Certificates

- Evidence of district-wide discipline communication
- Department minutes showing approval
- Narrative *(see following page)*
- Transfer preparation documentation *(only if applicable)*

Degrees and Certificates of 8 Units or More with Vocational TOPs Codes

In addition to the above, all degrees and certificates of 8 units or more with a vocational TOPs code must include the following to be submitted to the State Chancellor’s Office for approval.*

- ☒ Labor Market Information and Analysis *(Required for new programs and modifications.)*
- ☒ Advisory Committee Recommendation *(Required for new programs and may be required for modifications. Check with the curriculum coordinator at your college to determine if a new recommendation is necessary.)*
- ☒ Regional Consortium Recommendation *(Required for new programs only.)*

**Certificates between 8 and less than 16 units can be approved locally or can be submitted to the State Chancellor's Office for approval. Certificates of less than 8 units can only be approved locally. However, locally approved certificates will not appear on student transcripts.*

Program Narrative

Item 1. Program Goals and Objectives

Associate Degree of Science in Data Science provides students with a foundation in data analysis, in which students will model, synthesize, and present large data sets for business decision making. Courses will focus on the techniques and tools to extract data from various data sources, model, integrate data, and visualize data for organizational decision making and intelligence gathering. The program prepares students for entry-level jobs, or to help them advance into careers, such as Operation Data Analyst, Business Analytics Specialist, System Data Analyst, Data Visualization Developer, Test Data Analyst, and Market Research Analyst. Topics covered will include statistics, research methods, SQL queries, systems analysis, design, and applied predictive analytics.

Program Learning Outcomes:

Upon successful completion of this program, students should be able to:

- Identify, extract, clean and maintain data in databases.
- Interpret and evaluate data trends or patterns in complex data sets using statistical techniques, analytic methods, and tools.
- Create and monitor reports to preserve data quality, identify critical issues, trends, and potential solutions.

Item 2. Catalog Description

Associate Degree of Science in Data Science provides students with a foundation in data analysis, in which students will model, synthesize, and present large data sets for business decision making. Courses will focus on the techniques and tools to extract data from various data sources, model, integrate data, and visualize data for organizational decision making and intelligence gathering. The program prepares students for entry-level jobs, or to help them advance into careers, such as Operation Data Analyst, Business Analytics Specialist, System Data Analyst, Data Visualization Developer, Test Data Analyst, and Market Research Analyst. Topics covered will include statistics, research methods, SQL queries, systems analysis, design, and applied predictive analytics.

Program Requirement:

Before entering this program, student must complete MAT – 35 and MAT-10 or MAT-23 or qualifying placement level in mathematics to be successful in courses in the program.

Program Learning Outcomes:

Upon successful completion of this program, students should be able to:

- Identify, extract, clean and maintain data in databases.

- Interpret and evaluate data trends or patterns in complex data sets using statistical techniques, analytic methods, and tools.
- Create and monitor reports to preserve data quality, identify critical issues, trends, and potential solutions.

Required Courses: 37 units

Course	Title	Units	Sequencing
CIS-1A	Introduction to Computer Information Systems	3	Semester 1
MAT-70A/CIS-70A	Foundations of Data Science	3	Semester 1
CIS/CSC-61	Introduction to Database Theory	3	Semester 1
CIS-30A or CSC-8	Introduction to Python Programming or Programming Concepts: Python	3	Semester 1
MAT-70B	Statistics for STEM	4	Semester 2
MAT-1A or MAT-1AH	Calculus I / Honors Calculus I	4	Semester 2
CIS/CSC-63	Introduction to Structured Query Language (SQL)	3	Semester 2
MAT-1B	Calculus II	4	Semester 3
CIS-30E	Advanced Python Programming	3	Semester 3
MAT-1C	Calculus III	4	Semester 4
MAT-3	Linear Algebra	3	Semester 4

Elective Courses: 3 units

Course	Title	Units	Sequencing
CIS-68A or	Introduction to Machine Learning	3	Semester 3
CIS-68B or	Big Data Fundamentals	3	Semester 3
CIS/CSC-2 or	Fundamentals of Systems Analysis	3	Semester 4
CSC-20	System Analysis and Design	3	Semester 4

Total Program Units: 40 units

Item 3. Program Requirements

Required Courses: 37 units

Course	Title	Units	Sequencing
CIS-1A	Introduction to Computer Information Systems	3	Semester 1
MAT-70A/CIS-70A	Foundations of Data Science	3	Semester 1
CIS/CSC-61	Introduction to Database Theory	3	Semester 1
CIS-30A or CSC-8	Introduction to Python Programming or Programming Concepts: Python	3	Semester 1
MAT-70B	Statistics for STEM	4	Semester 2
MAT-1A	Calculus I	4	Semester 2
CIS/CSC-63	Introduction to Structured Query	3	Semester 2

	Language (SQL)		
MAT-1B	Calculus II	4	Semester 3
CIS-30E	Advanced Python Programming	3	Semester 3
MAT-1C	Calculus III	4	Semester 4
MAT-3	Linear Algebra	3	Semester 4

Elective Courses: 3 units

Course	Title	Units	Sequencing
CIS-68A or	Introduction to Machine Learning	3	Semester 3
CIS-68B or	Big Data Fundamentals	3	Semester 3
CIS/CSC-2 or	Fundamentals of Systems Analysis	3	Semester 4
CSC-20	System Analysis and Design	3	Semester 4

Total Program Units: 40 units

The **Associate of Science Degree in Data Science** will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

Minimum Degree Units		Maximum Degree Units	
Minimum Required Units	40	Maximum Required Units	40
Minimum Elective Units	3	Maximum Elective Units	3
Local GE Required Units	27	CSUGE Required Units	39
Double Counted Units	7	Double Counted Units	3
Total Minimum Degree Units	60	Total Maximum Degree Units	76

Item 4. Master Planning

This degree will increase the diversity in Inland Empire workforce by providing technical training emphasis in Career Technical Education. This program will increase the diversity of student population in STEM, Computer Information Systems and Mathematics. It will allow student to transfer to UC or CSU to pursue a bachelor’s degree in Data Science or related areas. The program will also improve the growth in special populations in STEM education, such as potentially increasing the population of female students and under-represented populations in the areas of STEM. The program is expected to have a steady growth after the initial year with program promotional outreach to local high schools and community centers.

Item 5. Enrollment and Completer Projections

Enrollment Projects for courses are as followed:

Required courses:

- CIS-1A: 49 students
- MAT-70A/CIS-70A: 49 students
- MAT-70B: 49 students
- CIS/CSC-61: 49 students
- CIS/CSC-63: 49 students

- CIS-30A or CSC-8: 49 students
 - CIS-68B: 49 students
- Electives:
- CIS-68A: 49 students
 - CIS-68B: 49 students
 - CIS-2: 49 students
 - CIS-20: 49 students

This program is expected to have 50 to 100 students by Fall 2023.

Item 6. Place of Program in Curriculum/Similar Programs

Most of the courses in the program are active courses that are currently offered at all three campuses in RCCD. The new courses will be incorporated into the program seamlessly. No other programs are similar or the same as the proposed Data Analytics program.

Item 7. Similar Programs at Other Colleges in Service Area

No other college in the region offers similar program. This program offers opportunities for students to acquire technical training that will help them build careers and contribute to Inland Empire social-economic improvement. It also provides local organizations access to a growing workforce and training resources for their incumbent workers.

Item 8. Transfer Preparation Information (if applicable)

Existing courses have been articulated for UC and CSU transfer. New courses can be articulated as transferrable courses at University of California Riverside, California State University San Bernardino, Cal-Poly Pomona and other institutions. The courses in this certificate can be used toward Associate Degree to Transfer for Data Science for UC and CSU.

Program Outline

Title: Noncredit Essential 3D Tour

**Originator: Farshid Mirzaei
Department: BEIT**

Date 3/3/2022

College: Moreno Valley College Norco College Riverside City College
(Please note: Programs are college specific. If multiple colleges wish to include this program, a separate proposal and college specific supporting documents are required.)

TOPs Code: 0201.00 **CIP Code:** 04.0901

Certificate is being proposed as:

Certificate of Completion (CDCP Eligible) **Certificate of Competency (CDCP Eligible)**

Please specify non-credit category:

- Short-Term Vocational Workforce Preparation
 English as a Second Language Elementary and Secondary Basic Skills

Local Non-Credit Certificate (Not CDCP Eligible; Not Submitted to State Chancellor’s Office)

Please specify non-credit category:

- Citizenship for Immigrants Health and Safety
 Parenting Courses for Persons with Substantial Disabilities
 Home Economics Courses for Older Adults

This is a: New non-credit certificate Modification to an existing non-credit certificate

If this is a modification to an existing non-credit certificate, please specify the changes being made:
(Please be specific! Indicate any changes to title, description, learning outcomes, courses, contact hour values, etc.)

Rationale:

To make this program available to a broader range of student and professionals who just need the training and increase the level of skills in the community.

Required Documentation

Please submit this form and the documents outlined below to your college coordinator and the District Technical Review committee via TechReview@rccd.edu. Please do not submit your proposal until all of the documentation below is complete.

All new and modified programs must include the following:

- Evidence of district-wide discipline communication
 Department minutes showing approval
 Narrative *(See following page)*
 Labor Market Information and Analysis *(For certificates in the Short-Term Vocational category only)*
Attached

In 2019, there were 2,184 combined drafting jobs in the Inland Empire/Desert Region. Drafting occupations are expected to have 235 annual job openings, rising by 7%. Exhibit 1 displays the job counts, five-year projected job growth, job openings, and the share of incumbent workers age 55 years and greater working in the drafting occupational group. (Attached report)

Program Narrative

Item 1. Program Goals and Objectives

Upon successful completion of the course, students should be able to demonstrate the following activities:

1. *Read Architectural documents and blueprints*
2. *Prepare a visual 3D presentation inside or outside a building for potential clients*

Item 2. Catalog Description

The Essential 3D Tour program prepares students with the knowledge and skill in reading Architectural documents and blueprints with technics in presenting an existing building in a three-dimensional virtual tour for later remodeling or design. Students learn to set and use advanced building scanner/camera and drones in presenting spatial aspects of building in a virtual walkthrough or virtual fly around the building and landscapes.

Item 3. Program Requirements

Building Scanner, Camera and virtual tour software will be provided by college. Students need a software access and a computer for home assignments.

Required Courses: 279 hours

Course	Title	Hours	Sequencing
CON-862	Blueprint Reading for Construction	162	Semester 1, Fall
ARE-863	3D Tour - VR, AR, MR and XR	117	Semester 2, Spring

Elective Courses: 0 hours

Course	Title	Hours	Sequencing
None			

Total Program Units: 279 hours

Item 4. Master Planning

This certificate serves our students by providing a unique educational opportunity with cutting-edge technology to a diverse group of talents in creating job opportunity for students, entrepreneurs, and professionals who need to update their skills in the field.

Program Outline

Title: Noncredit Essential Revit

**Originator: Farshid Mirzaei
Department: BEIT**

Date 3/3/2022

College: Moreno Valley College Norco College Riverside City College
(Please note: Programs are college specific. If multiple colleges wish to include this program, a separate proposal and college specific supporting documents are required.)

TOPs Code: 0201.00 **CIP Code:** 04.0901

Certificate is being proposed as:

Certificate of Completion (CDCP Eligible) **Certificate of Competency (CDCP Eligible)**

Please specify non-credit category:

- Short-Term Vocational Workforce Preparation
 English as a Second Language Elementary and Secondary Basic Skills

Local Non-Credit Certificate (Not CDCP Eligible; Not Submitted to State Chancellor’s Office)

Please specify non-credit category:

- Citizenship for Immigrants Health and Safety
 Parenting Courses for Persons with Substantial Disabilities
 Home Economics Courses for Older Adults

This is a: New non-credit certificate Modification to an existing non-credit certificate

If this is a modification to an existing non-credit certificate, please specify the changes being made:
(Please be specific! Indicate any changes to title, description, learning outcomes, courses, contact hour values, etc.)

Rationale:

To make this program available to a broader range of student and professionals who just need the training and increase the level of skills in the community.

Required Documentation

Please submit this form and the documents outlined below to your college coordinator and the District Technical Review committee via TechReview@rccd.edu. Please do not submit your proposal until all of the documentation below is complete.

All new and modified programs must include the following:

- Evidence of district-wide discipline communication
 Department minutes showing approval
 Narrative *(See following page)*
 Labor Market Information and Analysis *(For certificates in the Short-Term Vocational category only)*
Attached

In 2019, there were 2,184 combined drafting jobs in the Inland Empire/Desert Region. Drafting occupations are expected to have 235 annual job openings, rising by 7%. Exhibit 1 displays the job counts, five-year projected job growth, job openings, and the share of incumbent workers age 55 years and greater working in the drafting occupational group. (Attached report)

Program Narrative

Item 1. Program Goals and Objectives

Upon successful completion of the course, students should be able to demonstrate the following activities:

1. *Prepare Architectural drawings including plan, elevation, roof using Autodesk Revit.*
2. *Prepare Architectural rendering, solar study and perspectives using Autodesk Revit*

Item 2. Catalog Description

This program prepares students with the knowledge and skill in using Autodesk Revit Architecture for building Information Modeling on computer to document building information and drawings with architectural details. Students learn to render their architectural design and present solar study using Revit.

Item 3. Program Requirements

Software is free to students and college. Computer will be accessible by college. Students may use their home computer for homework.

Required Courses: 234 hours

Course	Title	Hours	Sequencing
ARE/DFT-824	Revit I-Architectural Drafting	117	Semester 1, Fall
ARE-825	Revit II-Advanced Architectural Drafting	117	Semester 2, Spring

Elective Courses: 0 hours

Course	Title	Hours	Sequencing
None			

Total Program Units: 234 hours

Item 4. Master Planning

This certificate serves our students by providing a unique educational opportunity with a cutting-edge technology to a diverse group of talents in creating job opportunity for students, entrepreneurs and professionals who need to update their skills in the architecture drafting field.

Program Outline

Title: Noncredit Essential CAD

**Originator: Farshid Mirzaei
Department: BEIT**

Date 3/3/2022

College: Moreno Valley College Norco College Riverside City College
(Please note: Programs are college specific. If multiple colleges wish to include this program, a separate proposal and college specific supporting documents are required.)

TOPs Code: 0953.00 **CIP Code:** 15.1302

Certificate is being proposed as:

Certificate of Completion (CDCP Eligible) **Certificate of Competency (CDCP Eligible)**

Please specify non-credit category:

- Short-Term Vocational Workforce Preparation
 English as a Second Language Elementary and Secondary Basic Skills

Local Non-Credit Certificate (Not CDCP Eligible; Not Submitted to State Chancellor’s Office)

Please specify non-credit category:

- Citizenship for Immigrants Health and Safety
 Parenting Courses for Persons with Substantial Disabilities
 Home Economics Courses for Older Adults

This is a: New non-credit certificate Modification to an existing non-credit certificate

If this is a modification to an existing non-credit certificate, please specify the changes being made:
(Please be specific! Indicate any changes to title, description, learning outcomes, courses, contact hour values, etc.)

Rationale:

To make this program available to a broader range of student and professionals who just need the training and increase the level of skills in the community.

Required Documentation

Please submit this form and the documents outlined below to your college coordinator and the District Technical Review committee via TechReview@rccd.edu. Please do not submit your proposal until all of the documentation below is complete.

All new and modified programs must include the following:

- Evidence of district-wide discipline communication
 Department minutes showing approval
 Narrative *(See following page)*
 Labor Market Information and Analysis *(For certificates in the Short-Term Vocational category only)*
Attached

In 2019, there were 2,184 combined drafting jobs in the Inland Empire/Desert Region. Drafting occupations are expected to have 235 annual job openings, rising by 7%. Exhibit 1 displays the job counts, five-year projected job growth, job openings, and the share of incumbent workers age 55 years and greater working in the drafting occupational group. (Attached report)

Program Narrative

Item 1. Program Goals and Objectives

Upon successful completion of the course, students should be able to demonstrate the following activities:

1. *Prepare Two- and three-dimensional Computer Aided Design drawings and models.*
2. *Prepare drawings such as orthographic and auxiliary views, sections with standard annotation and details using a CAD program*
3. *Prepare virtual rendering for computer models using CAD program.*

Item 2. Catalog Description

This program prepares students with the knowledge and skill in using CAD to prepare complicated two- and three-dimensional geometric shapes and models used in Architecture and Mechanical industry. Students learn to render computer models and prepare CAD animation.

Item 3. Program Requirements

Software is free to student. Computer and software access will be provided by college. Students may use their home computer for homework.

Required Courses: 216 hours

Course	Title	Hours	Sequencing
DFT/ENE-830	Computer Aided Design	108	Semester 1, Fall
DFT-831	Advanced Computer Aided Design	108	Semester 2, Spring

Elective Courses: 0 hours

Course	Title	Hours	Sequencing
None			

Total Program Units: 216 hours

Item 4. Master Planning

This certificate serves our students by providing a unique educational opportunity with AutoCAD to a diverse group of talents in creating job opportunity for students, entrepreneurs and professionals who need to update their skills in the Mechanical or Industrial drafting field.

Program Outline

Title: Noncredit Essential Fusion 360

**Originator: Farshid Mirzaei
Department: BEIT**

Date 3/3/2022

College: Moreno Valley College Norco College Riverside City College
(Please note: Programs are college specific. If multiple colleges wish to include this program, a separate proposal and college specific supporting documents are required.)

TOPs Code: 0953.00 **CIP Code:** 50.0404

Certificate is being proposed as:

Certificate of Completion (CDCP Eligible) **Certificate of Competency (CDCP Eligible)**

Please specify non-credit category:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Short-Term Vocational | <input type="checkbox"/> Workforce Preparation |
| <input type="checkbox"/> English as a Second Language | <input type="checkbox"/> Elementary and Secondary Basic Skills |

Local Non-Credit Certificate (Not CDCP Eligible; Not Submitted to State Chancellor’s Office)

Please specify non-credit category:

- | | |
|---|--|
| <input type="checkbox"/> Citizenship for Immigrants | <input type="checkbox"/> Health and Safety |
| <input type="checkbox"/> Parenting | <input type="checkbox"/> Courses for Persons with Substantial Disabilities |
| <input type="checkbox"/> Home Economics | <input type="checkbox"/> Courses for Older Adults |

This is a: New non-credit certificate Modification to an existing non-credit certificate

If this is a modification to an existing non-credit certificate, please specify the changes being made:
(Please be specific! Indicate any changes to title, description, learning outcomes, courses, contact hour values, etc.)

Rationale:

To make this program available to a broader range of student and professionals who just need the training and increase the level of skills in the community.

Required Documentation

Please submit this form and the documents outlined below to your college coordinator and the District Technical Review committee via TechReview@rccd.edu. Please do not submit your proposal until all of the documentation below is complete.

All new and modified programs must include the following:

- Evidence of district-wide discipline communication
 - Department minutes showing approval
 - Narrative *(See following page)*
 - Labor Market Information and Analysis *(For certificates in the Short-Term Vocational category only)*
- Attached*

In 2019, there were 2,184 combined drafting jobs in the Inland Empire/Desert Region. Drafting occupations are expected to have 235 annual job openings, rising by 7%. Exhibit 1 displays the job counts, five-year projected job growth, job openings, and the share of incumbent workers age 55 years and greater working in the drafting occupational group. (Attached report)

Program Narrative

Item 1. Program Goals and Objectives

Upon successful completion of the course, students should be able to demonstrate the following activities:

1. *Prepare parametric three-dimensional solid models using Autodesk 360.*
2. *Prepare drawings such as orthographic and auxiliary views, sections with standard annotation and details using Fusion 360*
3. *Setup and build parts using additive and subtractive process through Fusion 360.*

Item 2. Catalog Description

The Essential Fusion 360 program prepares makers with the knowledge and skill in using Fusion360 to document mechanical drawings per ANSI standards. Students learn to render parts and assemblies with exploded view animation. Also, students learn to build parts using additive and subtractive process through Fusion 360.

Item 3. Program Requirements

Software is free to student. Computer and software access will be provided by college. Students may use their home computer for homework.

Required Courses: 234 hours

Course	Title	Hours	Sequencing
DFT-862	Basic Fusion 360	117	Semester 1, Fall
DFT-863	Advanced Fusion 360	117	Semester 2, Spring

Elective Courses: 0 hours

Course	Title	Hours	Sequencing
None			

Total Program Units: 234 hours

Item 4. Master Planning

This certificate serves our students by providing a unique educational opportunity with Fusion 360 to a diverse group of talents in creating job opportunity for students, entrepreneurs and professionals who need to update their skills in the Mechanical and industrial drafting field.

Program Outline

Title: Noncredit Essential SolidWorks

Originator: Farshid Mirzaei
Department: BEIT

Date 3/3/2022

College: Moreno Valley College Norco College Riverside City College
(Please note: Programs are college specific. If multiple colleges wish to include this program, a separate proposal and college specific supporting documents are required.)

TOPs Code: 0953.00 **CIP Code:** 15.1302

Certificate is being proposed as:

Certificate of Completion (CDCP Eligible) **Certificate of Competency (CDCP Eligible)**

Please specify non-credit category:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Short-Term Vocational | <input type="checkbox"/> Workforce Preparation |
| <input type="checkbox"/> English as a Second Language | <input type="checkbox"/> Elementary and Secondary Basic Skills |

Local Non-Credit Certificate (Not CDCP Eligible; Not Submitted to State Chancellor’s Office)

Please specify non-credit category:

- | | |
|---|--|
| <input type="checkbox"/> Citizenship for Immigrants | <input type="checkbox"/> Health and Safety |
| <input type="checkbox"/> Parenting | <input type="checkbox"/> Courses for Persons with Substantial Disabilities |
| <input type="checkbox"/> Home Economics | <input type="checkbox"/> Courses for Older Adults |

This is a: New non-credit certificate Modification to an existing non-credit certificate

If this is a modification to an existing non-credit certificate, please specify the changes being made:
(Please be specific! Indicate any changes to title, description, learning outcomes, courses, contact hour values, etc.)

Rationale:

To make this program available to a broader range of student and professionals who just need the training and increase the level of skills in the community.

Required Documentation

Please submit this form and the documents outlined below to your college coordinator and the District Technical Review committee via TechReview@rccd.edu. Please do not submit your proposal until all of the documentation below is complete.

All new and modified programs must include the following:

- Evidence of district-wide discipline communication
 - Department minutes showing approval
 - Narrative *(See following page)*
 - Labor Market Information and Analysis *(For certificates in the Short-Term Vocational category only)*
- Attached*

In 2019, there were 2,184 combined drafting jobs in the Inland Empire/Desert Region. Drafting occupations are expected to have 235 annual job openings, rising by 7%. Exhibit 1 displays the job counts, five-year projected job growth, job openings, and the share of incumbent workers age 55 years and greater working in the drafting occupational group. (Attached report)

Program Narrative

Item 1. Program Goals and Objectives

Upon successful completion of the course, students should be able to demonstrate the following activities:

1. *Prepare parametric three-dimensional solid models*
2. *Prepare drawings such as orthographic and auxiliary views, sections with annotations and details using SolidWorks.*
3. *Prepare virtual rendering for mechanical parts, assemblies and animation using SolidWorks.*

Item 2. Catalog Description

The Essential SolidWorks program prepares students with the knowledge and skill in using Solidworks to document mechanical drawings per ANSI standards. Students learn to render parts and assemblies with exploded view animation.

Item 3. Program Requirements

Software is free to student. Computer and software access will be provided by college. Students may use their home computer for homework.

Required Courses: 216 hours

Course	Title	Hours	Sequencing
DFT/ENE-842	SolidWorks I	108	Semester 1, Fall
DFT/ENE-842B	SolidWorks II	108	Semester 2, Spring

Elective Courses: 0 hours

Course	Title	Hours	Sequencing
None			

Total Program Units: 216 hours

Item 4. Master Planning

This certificate serves our students by providing a unique educational opportunity with SolidWorks to a diverse group of talents in creating job opportunity for students, entrepreneurs and professionals who need to update their skills in the Mechanical or Industrial drafting field.