RCCD | RIVERSIDE COMMUNITY COLLEGE DISTRICT

MORENO VALLEY COLLEGE | NORCO COLLEGE | RIVERSIDE CITY COLLEGE

District Curriculum Committee
Meeting Agenda

Tuesday, December 7, 2021	4:00-5:00pm	CAADO 209/Zoom

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

Zoom Information

https://cccconfer.zoom.us/j/97574160717
+1 669 900 6833 (US Toll)
Meeting ID: 975 7416 0717

Agenda and Minutes

1. Approval of Agenda
2. Approval of Minutes – November 16, 2021

Reports from Colleges

1. Moreno Valley
2. Norco
3. Riverside

Action Items

1. Curriculum Proposals

Discussion Items

None at this time.

Program Documentation

1. Program Modifications
   a. Computer Numerical Control Programming

Notice is Hereby Given That Pursuant to AB 361 the Riverside Community College District Curriculum Committee will meet on December 7, 2021 via Zoom Conferencing.

The Riverside Community College District Curriculum Committee will provide to individuals with disabilities reasonable modification or accommodation including an alternate, accessible version of all meeting materials. To request an accommodation, please contact techreview@rccd.edu at least one week prior to the meeting. Requests received after this time will be honored when possible.

Members of the public wishing to comment on an agenda item or other topic within the purview of the Riverside Community College District Curriculum Committee will be given the opportunity via Zoom or may submit commentary to techreview@rccd.edu.

District Curriculum Committee
Proposals for Review for Meeting: 12/07/2021

Courses

Course Major Modifications			M N R	Discussion	Action

ILA 1   **Introduction to Tutor Training**   ☑☑☐

Rationale: Updating the SLOs and Course Objectives. Also adding a more recent text.

Tech Review: Approved, 11/16/2021
Discipline minutes appear to be missing. Ann will verify.

MOV: Approved, 11/30/2021   **NOR:** Hold, 11/30/2021   **RIV:** Info Item, 11/30/2021

          Advisory for ENG-1 should have an Extrance Skill listed in the COR and that is missing. HOLD until that is corrected.

H   **MAG 44**   **Principles of Management**   ☑☑☑

Rationale: Including our new Diversity SLO.

Tech Review: Approved, 10/19/2021

MOV: Approved, 10/26/2021   **NOR:** Approved, 10/26/2021   **RIV:** Approved, 11/30/2021

H   **MAG 51**   **Elements of Supervision**   ☑☑☑

Rationale: Including our new Diversity SLO.

Tech Review: Approved, 10/19/2021

MOV: Approved, 10/26/2021   **NOR:** Approved, 10/26/2021   **RIV:** Approved, 11/30/2021

H   **MAG 56**   **HRM: Human Resources Management**   ☑☑☑

Rationale: Adding a new Diversity SLO.

Tech Review: Approved, 10/19/2021

MOV: Approved, 10/26/2021   **NOR:** Approved, 10/26/2021   **RIV:** Approved, 11/30/2021

H   **MAN 35**   **Computer Aided Machining**   ☐☑☐   Awaiting Norco vote.

Rationale: There are other CAM software systems. Mastercam is still used in much of the industry many are also using Fusion 360.

Tech Review: Approved, 10/19/2021
Hours were not updated in course description.

MOV: Info Item, 10/26/2021   **NOR:** Hold, 11/30/2021   **RIV:** Info Item, 10/26/2021

          Held since 10/26/21 Course unit change affects both Manuf. Tech 1 & 2 certifcates and those program changes has not been brought forward. HOLD until that is completed.

Courses

Distance Education

				M N R	Discussion	Action

ART 36ADE Computer Art-Introduction ☑ ☑ ☑
Rationale:
Tech Review: Approved, 11/16/2021

MOV: Tabled, 11/30/2021   **NOR:** Hold, 11/30/2021   **RIV:** Tabled, 11/30/2021
NO VOTE: A Pfiefle- ART-36ADE/ART-36BDE-   Missing District Discipline minutes   Committee did not vote; hold or send back to
Pull from Agenda. Pushing back to Tech Review.   TR for in-complete district vote; also noted by
Need to have further discussion.   committee mem-bers that software cited in
    proposal doesn't have in-formation on
    accessibility.

ART 36BDE Computer Art-Intermediate ☑ ☑ ☑
Rationale:
Tech Review: Approved, 11/16/2021

MOV: Tabled, 11/30/2021   **NOR:** Hold, 11/30/2021   **RIV:** Tabled, 11/30/2021
NO VOTE: A Pfiefle- ART-36ADE/ART-36BDE-   Missing District Discipline minutes   Committee did not vote; hold or send back to
Pull from Agenda. Pushing back to Tech Review.   TR for in-complete district vote; also noted by
Need to have further discussion.   committee mem-bers that software cited in
    proposal doesn't have in-formation on
    accessibility.

CMI 61DE Introduction to Spanish English Translation ☑ ☐ ☐
Rationale:
Tech Review:

MOV: Approved, 11/30/2021   **NOR:**   **RIV:**

CMI 71DE Bilingual Interpretations for the Medical Professions ☑ ☐ ☐
Rationale:
Tech Review:

MOV: Approved, 11/30/2021   **NOR:**   **RIV:**

CMI 81DE Introduction to Court Interpreting ☑ ☐ ☐
Rationale:
Tech Review:

MOV: Approved, 11/30/2021   **NOR:**   **RIV:**

CMI 82DE Intermediate Legal Interpreting ☑ ☐ ☐
Rationale:
Tech Review:

MOV: Approved, 11/30/2021   **NOR:**   **RIV:**

Courses

Distance Education

		M	N	R	Discussion	Action

CMI 91DE — **Introduction to Translation and Interpretation for Business** ☑ ☐ ☐
Rationale:
Tech Review:
MOV: Approved, 11/30/2021   **NOR:**   **RIV:**

EAR 19DE — **Observation and Assessment in Early Childhood Education** ☑ ☑ ☑
Rationale:
Tech Review: Approved, 11/16/2021
MOV: Approved, 11/30/2021   **NOR:** Approved, 11/30/2021   **RIV:** Approved, 11/30/2021

EAR 41DE — **Practicum in Early Intervention/Special Education** ☑ ☑ ☑
Rationale:
Tech Review: Approved, 11/16/2021
MOV: Approved, 11/30/2021   **NOR:** Approved, 11/30/2021   **RIV:** Approved, 11/30/2021

HIS 18DE — **Modern European History** ☐ ☐ ☑
Rationale:
Tech Review: Approved, 11/16/2021
MOV: Info Item, 11/30/2021   **NOR:** Info Item, 11/30/2021   **RIV:** Approved, 11/30/2021

HIS 38DE — **LGBTQ+ History in the United States** ☑ ☐ ☑
Rationale:
Tech Review: Approved, 11/16/2021
MOV: Approved, 11/30/2021   **NOR:** Info Item, 11/30/2021   **RIV:** Approved, 11/30/2021

New Courses

		M	N	R	Discussion	Action

CIS 810 — **Cloud Computing Fundamentals** ☑ ☐ ☐
Rationale: This course mirrors another credit course that is part of the Cloud Administration certificate, which aims to develop technical skills for students who are interested in pursuing cloud-based support positions in the IT industry. With the increasing demands for cloud services, cloud security is an essential area of cloud computing as it emphasizes asset protection and maintenance. The obtained skills will help individuals in seeking employment and improve their social-economic status while elevate Inland Empire technical workforce.
Tech Review: Approved, 11/16/2021
Course is not intended to be mirrored with 48A. Course will need to be renumbered.
MOV: Approved, 11/30/2021   **NOR:** Info Item, 11/30/2021   **RIV:** Info Item, 11/30/2021

Courses

New Courses | | M N R | Discussion | Action

SOC 47   **Special Topics in Sociology**   ☑ ☑ ☑

Rationale: This course gives both faculty and students an opportunity to study specific topics not necessarily included in other Sociology courses.

Tech Review: Approved, 11/16/2021

MOV: Approved, 11/30/2021   **NOR:** Approved, 11/30/2021   **RIV:** Approved, 11/30/2021

General Education

General Education Modifications | | M N R | Discussion | Action

H   **MUS**   **Careers and Entrepreneurship in Music and the Arts**   ☑ ☑ ☑   Holding at faculty request.

Rationale: Proposal to include MUS 89 Careers in Music in RCCD GE Area E 2

Tech Review: Approved, 11/2/2021
Was designed to meet the same criteria as Cal Poly Pomona's local GE requirements for a similar course. Was not approved for CSUGE Area E, but if the course is updated it will be resubmitted. Should be reviewed at the college level.

MOV: Approved, 11/9/2021

NOR: Hold, 11/30/2021
11/09/2021 - Removed from Action item as Course Outline if being modified.
11/30/2021 - Course on HOLD as more information is needed.

RIV: Hold, 11/30/2021
This proposal was held at RCC and tabled at other colleges by request of Music rep. May still be on hold; Chair Douglass will update if intention is to remain on hold and no review required.

Programs

Program Modifications | | M N R | Discussion | Action

Degree & Certificate

H   **MAN**   **Computer Numerical Control Programming**   ☐ ☑ ☐   Holding for MAN 35

Rationale: Decreasing one class by one unit (Man 35). The class can be taught in 4 units instead of 5. We are changing the name of the course (MAN 35) From Computer Aided Manufacturing-Mastercam to Computer Aided Machining. In this course we would like to be able to teach either Mastercam and/or Fusion 360 and not just focus on MastercamWe also would like to give the students the option to take a new class teaching a new program known as Fusion 360 instead of Mastercam. The industry is stating that more and more companies are using Fusion 360.

Tech Review: Approved, 10/5/2021

MOV: Info Item, 10/12/2021   **NOR:** Approved, 10/26/2021   **RIV:** Info Item, 10/12/2021

Program Outline

Title: Computer Numerical Control Programming

Originator: Paul Van Hulle   **Date** 9/23/2021

Department: Business, Engineering and Information Technologies

☒ **Norco 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: 0956.30   **CIP Code:** 48.0501

Type of Program:
          ☒ Certificate of Achievement <u>and</u> Degree

Type of Associate Degree: ☒ Associate of Science

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

If this is a modification to an existing certificate/degree, please specify the changes being made:

Rationale:
Decreasing one class by one unit (Man 35). The class can be taught in 4 units instead of 5. We are changing the name of the course (MAN 35) From Computer Aided Manufacturing-Mastercam to Computer Aided Machining. In this course we would like to be able to teach either Mastercam and/or Fusion 360 and not just focus on Mastercam

We also would like to give the students the option to take a new class teaching a new program known as Fusion 360 instead of Mastercam. The industry is stating that more and more companies are using Fusion 360.

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
          Manufacturing is a single school/subject 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

For additional information, please see the Program and Course Approval Handbook (PCAH), the RCCD Curriculum Handbook, the Taxonomy of Programs manual, and the TOPs/CIP/SOC crosswalk. Revised September 2021

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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

Program Learning Outcomes
Upon successful completion of this program, students should be able to:
• Create a small engine based on blueprints that involves parts using both the mill and the lathe.
• Create five-axis part drawing files using Computer Aided Manufacturing program such as Mastercam, numerical code files and Solid Works.
• Compose written assignments on occupation safety in general industry.
• Solve mathematical formulas by using unknowns and apply this knowledge to solve problems for the industry.
• Establish a systematic approach to recognizing the essential information given on a blueprint.

In addition to achieving the program learning outcomes for the Computer Numerical Control programming certificate, students who complete the Associate of Science Degree in Computer Numerical Control Programming (CNC) technology will demonstrate proficiency in general education student learning outcomes and proficiency in subject matter student learning outcomes.

Item 2. Catalog Description

This program prepares individuals for an entry level career in Computer Numerical Control programming. Computer control programmers and operators use Computer Numerically Controlled (CNC) machines to cut and shape precision products, such as automobile, aviation, and machine parts. CNC machines operate by reading the code included in a computer-controlled module, which drives the machine tool and performs the functions of forming and shaping a part formerly done by machine operators. CNC machines include machining tools such as lathes, multi-axis spindles, milling machines, laser cutting machines, and wire electrical discharge machines. CNC machines cut away material from a solid block of metal or plastic—known as a workpiece—to form a finished part. Computer control programmers and operators normally produce large quantities of one part, although they may produce small batches or one-of-a-kind items. They use their knowledge of the working properties of metals and their skill with CNC programming to design and carry out the operations needed to make machined products that meet precise specifications.

For additional information, please see the Program and Course Approval Handbook (PCAH), the RCCD Curriculum Handbook, the Taxonomy of Programs manual, and the TOPs/CIP/SOC crosswalk. Revised September 2021

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CNC programmers—also referred to as numerical tool and process control programmers—develop the programs that run the machine tools. They review three-dimensional computer aided/automated design (CAD) blueprints of the part and determine the sequence of events that will be needed to make the part. This may involve calculating where to cut or bore into the workpiece, how fast to feed the metal into the machine, and how much metal to remove.

Item 3. Program Requirements

Includes course requirements and sequencing that reflect program goals. For degrees, the GE pattern and calculations used to reach the degree total must be shown following the program requirements table. Course titles and unit values must be exact.

Required Courses:＿＿26-29＿ units

Course	Title	Units	Sequencing
ENE/DFT-30	Computer Aided Drafting (CAD)	3	Semester 2, Fall
ENE/DFT-42	SolidWorks I	3	Semester 2, Fall
ENE/DFT-51	Print Reading	2	Semester 1, Summer
ENE/DFT-52	Geometric Dimensioning and Tolerancing	3	Semester 4, Spring
ENE/DFT-60	Math for Engineering Technology	3	Semester 1, Summer
OR			OR
MAT-36	Trigonometry	4	Semester 1, Summer
MAN/ELE-55	Occupational Safety and Health Administration (OSHA) Standards for General Industry	1	Semester 3, winter
MAN-56	CNC Machine Set-up and Operation	4	Semester 4, Spring
MAN-57	CNC Program Writing	3	Semester 5, Fall
MAN-35	Computer Aided Machining	4	Semester 5, Fall
OR			OR
DFT-62 AND	Basic Fusion 360	3	Semester 5, Fall AND
DFT-63	Advanced Fusion 360	3	Semester 5, Fall

Total Program Units: 26-29 units

Associate of Science Degree

The Associate of Science Degree in Computer Numerical Control Programming 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	26	Maximum Required Units	29
Minimum Elective Units	0	Maximum Elective Units	0
Local GE Required Units	27	CSUGE Required Units	39
Double Counted Units	4	Double Counted Units	4
Total Minimum Degree Units	**60**	**Total Maximum Degree Units**	**63**

For additional information, please see the Program and Course Approval Handbook (PCAH), the RCCD Curriculum Handbook, the Taxonomy of Programs manual, and the TOPs/CIP/SOC crosswalk.
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Item 4. Master Planning
This certificate has been offered for years at Norco College.

Riverside Community College District is dedicated to the success of its students and to the development of the communities it serves. By facilitating its Colleges and learning centers to provide educational and student services, it meets the needs and expectations of its unique communities of learners. The District provides the Colleges with leadership in the areas of advocacy, resource stewardship, and planning.

Norco College inspires a diverse student body by an inclusive innovative approach to learning through its pathways to transfer, professional, career and technical education, certificates, and degrees. We are proud to be a pivotal hub for scholarship, arts and culture, dynamic technologies, and partnerships. Norco College encourages self-empowerment and is dedicated to transforming the lives of our students, employees, and community.

Item 5. Enrollment and Completer Projections
20-25 enrollments and 10-20 each year

Item 6. Place of Program in Curriculum/Similar Programs
Other certificate in the manufacturing program include:
- Computer Numerical Control (CNC) operator (N) NCE966
- Conventional Machine Operator (N) NCE865
- Industrial Automation (N) NAS737/NAS737B/NAS737C/NCE737

Item 7. Similar Programs at Other Colleges in Service Area
San Bernardino Valley College and Fullerton College both have CNC programming certificates.

Item 8. Transfer Preparation Information (if applicable)
If transfer preparation is a component of the certificate/degree, please provide transfer preparation information.

For additional information, please see the Program and Course Approval Handbook (PCAH), the RCCD Curriculum Handbook, the Taxonomy of Programs manual, and the TOPs/CIP/SOC crosswalk. Revised September 2021

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