RCCD | **RIVERSIDE COMMUNITY COLLEGE DISTRICT**

MORENO VALLEY COLLEGE | NORCO COLLEGE | RIVERSIDE CITY COLLEGE

District Technical Review Committee
Meeting Agenda

Tuesday, September 21, 2021   **2:30-4:00pm**   **CAADO 209/Zoom**

Committee Members	Guests
☐ Steven Schmidt (Chair, MUS)	☐ Lijuan Zhai (AVC Ed Services and Institutional Effectiveness, RCCD)
☐ Jeannie Kim (Co-Chair, VC Ed. Services)	☐ Bryan Nicol (Staff, RCCD)
☐ Kelly Douglass (ENG, RCC)	☐ Ellen Brown-Drinkwater (AO, RCC)
☐ Brian Johnson (MAT, NOR)	☐ Nick Franco (AO, NOR)
☐ Ann Pfeifle (HIS, MVC)	☐ 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/92034554821
+1 669 900 6833 (US Toll)
Meeting ID: 920 3455 4821

Agenda and Minutes

1. Approval of Agenda
2. Approval of Minutes - September 7, 2021

Action Items

1. Curriculum Proposals

Discussion Items

1. GE Catalog Update – Steven Schmidt
2. Work Studies Courses – Ann Pfeifle
3. Honors Classes – Clerical Fixes – Kelly Douglass
4. Non-Credit FTES Calculation – Bryan Nicol
5. DE Deletion Following Course Deletion – Bryan Nicol

Program Documentation

1. New Programs
    a. Essential 3D Tour

    b. Essential Revit
    c. Data Analytics
    d. Essential CAD
    e. Essential Fusion 360
    f. Essential SolidWorks
    g. Data Science
    h. Emergency Management and Homeland Security – Leadership

2. Program Modifications
    a. Cosmetology Instructor Training
    b. Musical Theatre
    c. Automotive Technology – Automotive Trim and Upholstery
    d. Welding Technology

Notice is Hereby Given That Pursuant to Executive Order N-29-20 and N-08-21 the Riverside Community College District Technical Review Committee will meet on September 21, 2021 via Zoom Conferencing.

Consistent with Executive Order N-29-20 and N-08-21 and Government Code sections 54953.2, 54954.1, 54954.2, and 54957.5, the Riverside Community College District Technical Review 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 Technical Review Committee will be given the opportunity via Zoom or may submit commentary to techreview@rccd.edu.

RCCD Plan A Update

- Courses highlighted in Green were on the original list and faculty have confirmed they should remain.
- Courses highlighted in Blue are faculty requests for additions made to the original itemized list, and faculty have submitted the GE inclusion form and minutes.
- Courses highlighted in Yellow are faculty requests for additions made to the original itemized list, but faculty have not submitted the GE inclusion form and/or minutes.
- Courses highlighted in Red are faculty requests for removals from the original itemized list.

PLAN A
RCCD General Education
A. Natural Sciences (3 units)

Any course for which the student is eligible in anatomy and physiology, Anthropology 1 or 1H, astronomy, biology, (except BIO-35), chemistry, Geography 1 or 1H, or 5/Physical Science 5, geology, microbiology, oceanography, physical science, physics and Psychology 2. Waiver for this requirement will be granted for Cosmetology 60C and Electronics 21.

Anthropology: 1, 1H
Astronomy: 1A, 1B
Biology: 1, 1H, 2, 2A, 2B, 3, 4, 5, 6, 7, 8, 9, 10, 14, 15, 16, 18, 19, 20, 21, 31A, 31B, 31C, 31D, 31E, 40, 45, 50A, 50B, 55, 60, 60H, 61, 85
Chemistry: 1A, 1AH, 1B, 1BH, 2A, 2B, 3, 10, 12A, 12B, 17
Geography: 1, 1H, 1L, 5
Geology: 1, 1B, 1L, 2, 3, 4, 5, 30A, 30B, 31, 32
Oceanography: 1, 1L
Physical Science: 1, 5
Physics: 2A, 2B, 4A, 4B, 4C, 4D, 10, 11
Psychology: 2

B. Social and Behavioral Sciences (6 units)

1. American Institutions (3 units) Ethnic Studies 2, 15, 28, 29 or History 6 or 6H, 7 or 7H, 15, 26, 28, 29, 31, 34 or Political Science 1 or 1H, 5
AND
2. Social and Behavioral Sciences (3 units)

Any course for which the student is eligible in American Sign Language 22, anthropology (except Anthropology 1 or 1H), Communications 9, 9H, 12, 13, 20, Early Childhood Education 20, economics, Ethnic Studies 14, 21, 23, 27, 44, geography (except Geography 1/1H and 5), history (except as listed in one above), human services, military science, political science (except as listed in one above), psychology (except Psychology 2), and sociology.

B1
Ethnic Studies: 2, 15, 28, 29
History: 6, 6H, 7, 7H, 15, 26, 28, 29, 31, 34
Political Science: 1, 1H, 5

B2
American Sign Language: 22
Anthropology: 1L, 2, 2H, 3, 4, 5, 6, 7, 8, 10, 16
Arabic: 11, 11H
Chemistry: 17
Chinese: 11
Communications: 9, 9H, 12, 13, 20
Early Childhood Education: 20
Economics: 4, 5, 6, 7, 7H, 8, 8H, 9, 9H, 10
Ethnic Studies: 14, 21, 23, 27, 44
French: 11
Geography: 2, 3, 4, 6, 7, 8, 30A, 30B, 30C, 30D
History: 1, 2, 2H, 4, 5, 11, 12, 14, 19, 21, 22, 25, 32, 33, 35, 42, 44
Human Services: 4, 5, 6, 7, 8, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 60, 61, 62, 69, 70, 71, 72, 73, 74, 200
Italian: 11
Japanese: 11
Military Science: 1, 2
Political Science: 2, 2H, 3, 4, 4H, 6, 7A, 7B, 7C, 7D, 8, 10, 10A, 10B, 10C, 11, 12, 13, 14, 17, 20, 21, 22, 23
Psychology: 1, 1H, 8, 9, 10, 33, 35, 35H, 48, 50

Russian: 11
Sociology: 1, 1H, 2, 3, 10, 10H, 12, 15, 20, 23, 25, 48, 50
Spanish: 11, 12

C. Humanities (3 units)

Any course for which the student is eligible in American Sign Language 1, Architecture 36, Art, Communication Studies 7, 11, Dance 6, 6H, 7, 8, 9, English, Ethnic Studies 13, 18, 20, 24, 25, foreign languages, Game Development 2, History 1, 2, 2H, 4, 5, humanities, music, philosophy (except Philosophy 11 and 32), Photography 8, theater arts, and film, television and video.

Architecture: 36
Art: 6, 6H, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25A, 25B, 26, 27, 28A, 28B, 30A, 30B, 34, 35A, 35B, 36A, 36B, 38, 39, 40A, 40B, 41A, 41B, 42A, 42B, 43A, 43B, 44A, 44B, 44C, 45, 46, 47, 48A, 48B, 49A, 49B, 50A, 50B, 51A, 51B, 200
Art History: 1, 1H, 2, 2H, 3, 4, 5, 6, 6H, 7, 8, 9, 10, 11, 12, 13, 14, 15
Communication Studies: 7, 11
Dance: 6, 6H, 7, 8, 9
English: 1A, 1AH, 1B, 1BH, 4, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17A, 17B, 17C, 18, 20, 23, 24, 25, 30, 34, 35, 38, 38A, 38B, 38C, 39, 40, 41, 44, 45, 48, 50, 90B, 90BH
Ethnic Studies: 13, 18, 20, 24, 25
Film, Television, and Video: 12, 38A, 38B, 41, 42, 43, 44A, 45A, 46, 48, 51A, 51B, 52, 53, 64A, 65, 66, 67, 68, 72, 74, 76, 77, 79
Foreign Languages: American Sign Language: 1, 2, 3, 4
Arabic: 1, 2, 3, 8, 11, 11H
Chinese: 1, 2, 11
French: 1, 2, 3, 8, 11
Italian: 1, 2, 3, 11
Japanese: 1, 2, 3, 4, 11
Portuguese: 1, 2
Russian: 1, 2, 3, 11
Spanish: 1, 2, 2H, 3, 3N, 4, 8, 11, 12, 13, 51
Game Development: 2
History: 1, 2, 2H, 4, 5
Humanities: 4, 4H, 5, 5H, 8, 9, 10, 10H, 11, 16, 18, 20A, 20B, 20C, 23, 35
Music: 1, 3, 4, 5, 6, 8A, 8B, 9, 10, 11, P11, 12, P12, 19, 19H, 20, 21, 22, 23, 25, 26, P27, 28, P28, 29, 30, 31, 32A, 32B, 32C, 32D, P32A, 33, 35, 36, P36, 37, 38, 39, 40, 41, 42, 43A, 43B, 43C, 44, P44, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 65, 66, 67, 68, 69, 70, P70, 71, 72, 73, 74, 75, 76, P76, 77, P77, 78, 79, 80, 81, 82, 83, 84, P84, 85, 86, 87, 88, 89, 89H, 92, 93, 94, 95, 97, 98, 101, 200
Philosophy: 10, 10H, 12, 13, 14, 15, 19, 22, 33, 34, 35, 36
Photography: 8
Theater Arts: 2, 3, 4, 5, 6, 9, 25, 26, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 41, 44, 46, 48, 49, 54, 55, 56, 57, 58, 200

D. Language and Rationality (10 units)

1. English composition (4 units)
Courses fulfilling the written composition requirement include both expository and argumentative writing. The English composition requirement may be met by English 1A or English 1AH, with a grade of "C" or better.

2. Communication and analytical thinking (6-8 units)
Courses fulfilling this requirement include oral communication, mathematics, logic, statistics, computer languages and programming. Students must complete one course from two of the following areas
Communication Studies 1, or 1H or 9 or 9H
Computer Information Systems 1A through 30
Computer Science 1A through 30
English 1B or 1BH
Mathematics 1-36
Philosophy 11, 32
Philosophy/Math 32
Reading 4

D1:
English: 1A, 1AH

D2:
Communication Studies: 1, 1H, 9, 9H
Computer Information Systems: 1A, 1B, 2, 3, 4, 5, 7, 8, 11, 12, 14A, 14B, 17A, 17B, 17C, 18A, 18B, 18C, 20, 21, 21A, 21B, 21C, 22, 25, 26A, 26B, 26C, 26D, 26F, 27, 27A, 27B, 27C, 28A, 30A, 30B, 30C, 30D, 30E
Computer Science: 2, 5, 6, 7, 8, 11, 12, 14A, 17A, 17B, 17C, 18A, 18B, 18C, 20, 21, 21A, 25, 27, 27A, 28A
English: 1B, 1BH
Mathematics: 1A, 1B, 1C, 2, 3, 5, 10, 11, 12, 12H, 15, 23, 25, 26, 32, 35, 36, 53

Academic Literacy and Reading: 4

E. Health Education and Self Development (5 units)

1. Health Education (3 units) Biology 35/Health Science 1
    NOTE: Students are exempts from the Health Education requirement when they complete the Dental Hygiene program, the EMS program, or the Registered or Vocational Nursing program.

2. Self Development (2 or 3 units)
    Option 1- Kinesiology (two activities courses)
    Any course with an A or V, or any Dance class with D is considered an activity class. The following classes have a laboratory component and may be counted as one of the two activity courses required.
    Kinesiology 6, 29, 42, 47, Music 48, 59, 60, 61 OR
    Option 2 - Fitness and Wellness (3 units)
    Guidance 47, 48, Kinesiology 4, 30, 35, 36, 38, Reading 3

NOTE: Students are exempt from the Self Development requirement when they complete the Cosmetology program, the Registered or Vocational Nursing program, the Basic Peace Officer Training Academy, the Firefighter Academy, or the EMS program.

E1:
Biology: 35
Health Education: 1

E2:
Option 1:
Dance: D5, D8, D9, D10, D12, D13, D14, D15, D16, D17, D19, D20, D21, D22, D23, D25, D26, D29, D30A, D30B, D30C, D31, D31B, D32, D33, D34, D35, D37, D38, D39, D43, D44, D46, D47, D48, D49, D50, D51, D60
Kinesiology: A03, A04, A07, A11, A12, A13, A20, A21, A28, A29, A30, A31A, A31B, A31C, A40, A41, A43, A44, A46, A47, A54A, A54B, A55, A57A, A57B, A57C, A62, A64, A64A, A64B, A64C, A67, A68, A69, A71, A75A, A75B, A77A, A77B, A77C, A81, A81A, A81B, A81C, A82, A83, A86, A87, A88, A89A, A89B, A89C, A90A, A90B, A90C, V01, V02, V04, V05, V06, V07, V08, V09, V10, V11, V12, V14, V18, V19, V21, V22, V23, V24, V25, V26, V27, V33, V34, V50, V51, V52, V53, V60, V61, V70, V71, V78, V92, V94, V95
     or
Kinesiology: 6, 29, 42, 47
Music: 48, 49, 59, 60, 61, 66

Option 2:
Guidance: 47, 48
Kinesiology: 4, 30, 35, 36, 38
Academic Literacy and Reading: 3

Disciplines Pending:

Academic Literacy and Reading
Architecture
Art
Art History
Biology/Heath Sciences (Area E only)
Communication Studies
Computer Information Systems
Computer Science
Dance
Early Childhood Education
Economics
Ethnic Studies

FTV
Game Development
Guidance
History
Human Services
Kinesiology
Military Science
Photography
Political Science
Psychology
Sociology

Discipline Name: <u>Music</u>

Do you intend to add or remove courses from your discipline to any of the local RCCD GE areas, or will the courses as itemized remain unchanged?

☒ Yes – Courses will be either added or removed

☐ No – Changes will not be made to the itemized list

(If no changes will be made to the itemized list, please skip to and complete Item 3 below.)

Item 1: If <u>adding</u> courses:
- the courses must meet the criteria for general education as outlined in the Title 5 §55063 (or, for the American Institutions area, Title 5 §40404). Please see the next pages for additional details.
- the courses must align with at least one general education student learning outcome (GE SLO)
  - if the active COR does not contain at least one GE SLO, a modification is needed

GE Area *(e.g., Natural Sciences)*	Course *(e.g., ENG-1A)*	Does the course meet the Title 5 criteria for GE?	Does the current COR contain at least one GE SLO, or is a modification needed?	
			Active COR has GE SLO	Modification Needed
E. 2. Self Development Option 1 - Kinesiology	MUS-49	☒	☒	☐
E. 2. Self Development Option 1 - Kinesiology	MUS-66	☒	☒	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Item 2: If <u>removing</u> courses, please specify the GE area and list the courses being removed.

GE Area *(e.g., Natural Sciences)*	Courses Removed *(e.g., ENG-101, ENG-102, ENG-103…)*

Item 3: Please specify the final list of courses as it should appear in the catalog for any GE areas your discipline is associated with. Please account for any added or removed courses.

GE Area *(e.g., Natural Sciences)*	Final Course Listing *(e.g., ENG-101, ENG-102, ENG-103…)*

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 April 2021

1 | P a g e

C. Humanities	MUS-1, 3, 4, 5, 6, 8A, 8B, 9, 10, 11, P11, 12, P12, 19, 19H, 20, 21, 22, 23, 25, 26, P27, 28, P28, 29, 30, 31, 32A, 32B, 32C, 32D, P32A, 33, 35, 36, P36, 37, 38, 39, 40, 41, 42, 43A, 43B, 43C, 44, P44, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 65, 66, 67, 68, 69, 70, P70, 71, 72, 73, 74, 75, 76, P76, 77, P77, 78, 79, 80, 81, 82, 83, 84, P84, 85, 86, 87, 88, 89, 89H, 92, 93, 94, 95, 97, 98, 101, 200
E. 2. Self Development Option 1 - Kinesiology	MUS-48, 49, 59, 60, 61, 66

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 RCCD General Education Plan A revision proposals must include the following:

☒ Evidence of district-wide discipline communication/agreement
☒ Department minutes showing approval

General Education Area Descriptions/Criteria

RCCD General Education Areas:

A. Natural Sciences (3 units)

Title V §55063 b.1.A: Courses in the natural sciences are those which examine the physical universe, its life forms, and its natural phenomena. To satisfy the general education requirement in natural sciences, a course shall be designed to help the student develop an appreciation and understanding of the scientific method, and encourage an understanding of the relationships between science and other human activities. This category would include introductory or integrative courses in astronomy, biology, chemistry, general physical science, geology, meteorology, oceanography, physical geography, physical anthropology, physics and other scientific disciplines.

B. Social and Behavioral Sciences (6 units)

1. American Institutions (3 units)

Title 5, Div. 5, Chap. 1 [CSU], Subchapter 2, Art. 5, §40404.a: Requirements in United States History, Constitution, and American Ideals: The purpose of the following requirements is to ensure that students acquire knowledge and skills that will help them to comprehend the workings of American democracy and of the society in which they live to enable them to contribute to that society as responsible and constructive citizens. To this end each campus shall provide for comprehensive study of American history and American government

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 April 2021

including the historical development of American institutions and ideals, the Constitution of the United States and the operation of representative democratic government under that Constitution, and the processes of state and local government.

2. Social and Behavioral Sciences (3 units)
Title V §55063 b.1.B: Courses in the social and behavioral sciences are those which focus on people as members of society. To satisfy the general education requirement in social and behavioral sciences, a course shall be designed to develop an awareness of the method of inquiry used by the social and behavioral sciences. It shall be designed to stimulate critical thinking about the ways people act and have acted in response to their societies and should promote appreciation of how societies and social subgroups operate. This category would include introductory or integrative survey courses in cultural anthropology, cultural geography, economics, history, political science, psychology, sociology and related disciplines.

C. Humanities (3 units)
Title V §55063 b.1.C: Courses in the humanities are those which study the cultural activities and artistic expressions of human beings. To satisfy the general education requirement in the humanities, a course shall be designed to help the student develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creation and help the student develop aesthetic understanding and an ability to make value judgments. Such courses could include introductory or integrative courses in the arts, foreign languages, literature, philosophy, and religion.

D. Language and Rationality (10 units)
Title V §55063 b.1.D: Courses in language and rationality are those which develop for the student the principles and applications of language toward logical thought, clear and precise expression and critical evaluation of communication in whatever symbol system the student uses. Such courses include:

1. English composition (4 units)
Title V §55063 b.1.D.i: Courses fulfilling the written composition requirement shall be designed to include both expository and argumentative writing. Such courses may be taught in disciplines such as, but not limited to, English and English as a Second Language.

2. Communications and analytical thinking (6-8 units)
Title V §55063 b.1.D.ii: Courses fulfilling the communication and analytical thinking requirement including, but not limited to oral communication, mathematics, and quantitative reasoning such as logic, statistics, computer languages and programming, and related disciplines.

E. Health Education and Self Development (5 units)
1. Health Education (3 units)
2. Self Development (2 or 3 units)

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 April 2021

3 | P a g e

Riverside Community College District General Education Student Learning Outcomes

From the RCCD Curriculum Handbook: Any course in the RCCD pattern is required to align with at least one general education student learning outcomes (GE SLO):

- Critical Thinking. Students will be able to demonstrate higher order thinking skills about issues, problems, and explanations for which multiple solutions are possible. Students will be able to explore problems and, where possible, solve them. Students will be able to develop, test, and evaluate rival hypotheses. Students will be able to construct sound arguments and evaluate the arguments of others.

- Information Competency & Technology Literacy. Students will be able to use technology to locate, organize, and evaluate information. They will be able to locate relevant information, judge the reliability of sources, and evaluate the evidence contained in those sources as they construct arguments, make decisions, and solve problems.

- Communication. Students will be able to communicate effectively in diverse situations. They will be able to create, express, and interpret meaning in oral, visual, and written forms. They will also be able to demonstrate quantitative literacy and the ability to use graphical, symbolic, and numerical methods to analyze, organize, and interpret data.

- Self-Development & Global Awareness. Students will be able to develop goals and devise strategies for personal development and well-being. They will be able to demonstrate an understanding of what it means to be an ethical human being and effective citizen in their awareness of diversity and various cultural viewpoints.

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 April 2021

From: **Schmidt, Steven** Steven.Schmidt@rcc.edu 📎
Subject: Update to RCCD GE Area E
Date: May 12, 2021 at 4:13 PM
To: Jennifer Amaya Jennifer.Amaya@rcc.edu, John Byun john.byun@rcc.edu, Peter Curtis Peter.Curtis@rcc.edu, Donald Foster Donald.Foster@rcc.edu, Jasminka Knecht Jasminka.Knecht@rcc.edu, Steven Mahpar steven.mahpar@rcc.edu, Kevin Mayse Kevin.Mayse@rcc.edu, Charles Richard Charles.Richard@rcc.edu, James Rocillo James.Rocillo@rcc.edu

Hi all,

We are hoping to update our local General Education pattern (RCCD GE) to include MUS-49 Indoor Marching Percussion and MUS-66 Indoor Color Guard under Area E Health Education and Self Development Section 2. Option 1 - Kinesiology (please see attached.)

Would you please email me your vote of approval (or non-approval)? Thanks! -S

Steven Schmidt, Associate Professor of Music
Percussion, Music Technology, Music Theory
Chair, Technical Review Committee
http://faculty.rcc.edu/schmidt
steven.schmidt@rcc.edu
Voice: 951-222-8248 Text: 951-977-1360
RCC Henry W. Coil, Sr. and Alice Edna Coil School for the Arts
3890 University Ave • Riverside, CA 92501

RCCD GE
Review...1.docx

From: **Richard, Charles** Charles.Richard@rcc.edu
Subject: Re: Update to RCCD GE Area E
Date: May 12, 2021 at 4:13 PM
To: Schmidt, Steven Steven.Schmidt@rcc.edu

Approved

Charlie

From: "Schmidt, Steven" <Steven.Schmidt@rcc.edu>
Date: Wednesday, May 12, 2021 at 4:13 PM
To: "Amaya, Jennifer" <Jennifer.Amaya@rcc.edu>, "Byun, John" <John.Byun@rcc.edu>,
"Curtis, Peter" <Peter.Curtis@rcc.edu>, "Foster, Donald" <Donald.Foster@rcc.edu>,
"Knecht, Jasminka" <Jasminka.Knecht@rcc.edu>, "Mahpar, Steven"
<Steven.Mahpar@rcc.edu>, Kevin Mayse <Kevin.Mayse@rcc.edu>, Charles Richard
<Charles.Richard@rcc.edu>, "Rocillo, James" <James.Rocillo@rcc.edu>
Subject: Update to RCCD GE Area E

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Steven Schmidt, Associate Professor of Music
Percussion, Music Technology, Music Theory
Chair, Technical Review Committee
http://faculty.rcc.edu/schmidt
steven.schmidt@rcc.edu
Voice: 951-222-8248 Text: 951-977-1360
RCC Henry W. Coil, Sr. and Alice Edna Coil School for the Arts
3890 University Ave • Riverside, CA 92501

From: Mahpar, Steven Steven.Mahpar@rcc.edu
Subject: Re: Update to RCCD GE Area E
Date: May 12, 2021 at 4:53 PM
To: Schmidt, Steven Steven.Schmidt@rcc.edu

SM

I approve.

Steve

From: Schmidt, Steven <Steven.Schmidt@rcc.edu>
Date: Wednesday, May 12, 2021 at 4:13 PM
To: Amaya, Jennifer <Jennifer.Amaya@rcc.edu>, Byun, John <John.Byun@rcc.edu>, Curtis, Peter <Peter.Curtis@rcc.edu>, Foster, Donald <Donald.Foster@rcc.edu>, Knecht, Jasminka <Jasminka.Knecht@rcc.edu>, Mahpar, Steven <Steven.Mahpar@rcc.edu>, Mayse, Kevin <Kevin.Mayse@rcc.edu>, Richard, Charles <Charles.Richard@rcc.edu>, Rocillo, James <James.Rocillo@rcc.edu>
Subject: Update to RCCD GE Area E

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Steven Schmidt, Associate Professor of Music
Percussion, Music Technology, Music Theory
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Voice: 951-222-8248 Text: 951-977-1360
RCC Henry W. Coil, Sr. and Alice Edna Coil School for the Arts
3890 University Ave • Riverside, CA 92501

From: **Foster, Donald** Donald.Foster@rcc.edu 📎
Subject: Re: Update to RCCD GE Area E
Date: May 12, 2021 at 8:05 PM
To: Amaya, Jennifer Jennifer.Amaya@rcc.edu, Byun, John John.Byun@rcc.edu, Curtis, Peter Peter.Curtis@rcc.edu,
Knecht, Jasminka Jasminka.Knecht@rcc.edu, Mahpar, Steven Steven.Mahpar@rcc.edu, Mayse, Kevin Kevin.Mayse@rcc.edu,
Richard, Charles Charles.Richard@rcc.edu, Rocillo, James James.Rocillo@rcc.edu, Schmidt, Steven Steven.Schmidt@rcc.edu

Approve.

Donald Travis Foster
Professor of Music
Riverside City College

On May 12, 2021, 6:13 PM -0500, Schmidt, Steven <Steven.Schmidt@rcc.edu>, wrote:

> Hi all,
>
> We are hoping to update our local General Education pattern (RCCD GE) to include MUS-49 Indoor Marching Percussion and MUS-66 Indoor Color Guard under Area E Health Education and Self Development Section 2. Option 1 - Kinesiology (please see attached.)
>
> Would you please email me your vote of approval (or non-approval)? Thanks! -S
>
> **Steven Schmidt, Associate Professor of Music**
> Percussion, Music Technology, Music Theory
> Chair, Technical Review Committee
> http://faculty.rcc.edu/schmidt
> steven.schmidt@rcc.edu
> Voice: 951-222-8248 Text: 951-977-1360
> RCC Henry W. Coil, Sr. and Alice Edna Coil School for the Arts
> 3890 University Ave • Riverside, CA 92501

From: **Mayse, Kevin** Kevin.Mayse@rcc.edu
Subject: Re: Update to RCCD GE Area E
Date: May 12, 2021 at 8:12 PM
To: Schmidt, Steven Steven.Schmidt@rcc.edu
Cc: Amaya, Jennifer Jennifer.Amaya@rcc.edu, Byun, John John.Byun@rcc.edu, Curtis, Peter Peter.Curtis@rcc.edu, Foster, Donald Donald.Foster@rcc.edu, Knecht, Jasminka Jasminka.Knecht@rcc.edu, Mahpar, Steven Steven.Mahpar@rcc.edu, Richard, Charles Charles.Richard@rcc.edu, Rocillo, James James.Rocillo@rcc.edu

Approve

Sent from my iPhone

> On May 12, 2021, at 4:13 PM, Schmidt, Steven <Steven.Schmidt@rcc.edu> wrote:
>
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>
>
> <RCCD GE Review Music Update 051221.docx>

From: **Byun, John** John.Byun@rcc.edu
Subject: Re: Update to RCCD GE Area E
Date: May 12, 2021 at 10:35 PM
To: Mayse, Kevin Kevin.Mayse@rcc.edu, Schmidt, Steven Steven.Schmidt@rcc.edu
Cc: Amaya, Jennifer Jennifer.Amaya@rcc.edu, Curtis, Peter Peter.Curtis@rcc.edu, Foster, Donald Donald.Foster@rcc.edu,
Knecht, Jasminka Jasminka.Knecht@rcc.edu, Mahpar, Steven Steven.Mahpar@rcc.edu, Richard, Charles
Charles.Richard@rcc.edu, Rocillo, James James.Rocillo@rcc.edu

Approve

Get Outlook for iOS

From: Mayse, Kevin <Kevin.Mayse@rcc.edu>
Sent: Wednesday, May 12, 2021 8:12:46 PM
To: Schmidt, Steven <Steven.Schmidt@rcc.edu>
Cc: Amaya, Jennifer <Jennifer.Amaya@rcc.edu>; Byun, John <John.Byun@rcc.edu>; Curtis, Peter <Peter.Curtis@rcc.edu>; Foster, Donald <Donald.Foster@rcc.edu>; Knecht, Jasminka <Jasminka.Knecht@rcc.edu>; Mahpar, Steven <Steven.Mahpar@rcc.edu>; Richard, Charles <Charles.Richard@rcc.edu>; Rocillo, James <James.Rocillo@rcc.edu>
Subject: Re: Update to RCCD GE Area E

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>
>
> <RCCD GE Review Music Update 051221.docx>

From: **Knecht, Jasminka** Jasminka.Knecht@rcc.edu
Subject: Re: Update to RCCD GE Area E
Date: May 13, 2021 at 1:13 AM
To: Mayse, Kevin Kevin.Mayse@rcc.edu
Cc: Schmidt, Steven Steven.Schmidt@rcc.edu, Amaya, Jennifer Jennifer.Amaya@rcc.edu, Byun, John John.Byun@rcc.edu, Curtis, Peter Peter.Curtis@rcc.edu, Foster, Donald Donald.Foster@rcc.edu, Mahpar, Steven Steven.Mahpar@rcc.edu, Richard, Charles Charles.Richard@rcc.edu, Rocillo, James James.Rocillo@rcc.edu

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> Approve
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>>
>> <RCCD GE Review Music Update 051221.docx>

From: **Rocillo, James** James.Rocillo@rcc.edu
Subject: Re: Update to RCCD GE Area E
Date: May 13, 2021 at 8:24 AM
To: Knecht, Jasminka Jasminka.Knecht@rcc.edu, Mayse, Kevin Kevin.Mayse@rcc.edu
Cc: Schmidt, Steven Steven.Schmidt@rcc.edu, Amaya, Jennifer Jennifer.Amaya@rcc.edu, Byun, John John.Byun@rcc.edu,
Curtis, Peter Peter.Curtis@rcc.edu, Foster, Donald Donald.Foster@rcc.edu, Mahpar, Steven Steven.Mahpar@rcc.edu,
Richard, Charles Charles.Richard@rcc.edu

Approve

Get Outlook for iOS

From: Knecht, Jasminka <Jasminka.Knecht@rcc.edu>
Sent: Thursday, May 13, 2021 1:13:16 AM
To: Mayse, Kevin <Kevin.Mayse@rcc.edu>
Cc: Schmidt, Steven <Steven.Schmidt@rcc.edu>; Amaya, Jennifer <Jennifer.Amaya@rcc.edu>;
Byun, John <John.Byun@rcc.edu>; Curtis, Peter <Peter.Curtis@rcc.edu>; Foster, Donald
<Donald.Foster@rcc.edu>; Mahpar, Steven <Steven.Mahpar@rcc.edu>; Richard, Charles
<Charles.Richard@rcc.edu>; Rocillo, James <James.Rocillo@rcc.edu>
Subject: Re: Update to RCCD GE Area E

Approve

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RIVERSIDE COMMUNITY
COLLEGE DISTRICT

MORENO VALLEY COLLEGE | NORCO COLLEGE | RIVERSIDE CITY COLLEGE

Discipline Name: Mathematics_____

Do you intend to add or remove courses from your discipline to any of the local RCCD GE areas, or will the courses as itemized remain unchanged?

☒ Yes – Courses will be either added or removed

☐ No – Changes will not be made to the itemized list

(If no changes will be made to the itemized list, please skip to and complete Item 3 below.)

Item 1: If <u>adding</u> courses:
- the courses must meet the criteria for general education as outlined in the Title 5 §55063 (or, for the American Institutions area, Title 5 §40404). Please see the next pages for additional details.
- the courses must align with at least one general education student learning outcome (GE SLO)
  - if the active COR does not contain at least one GE SLO, a modification is needed

GE Area *(e.g., Natural Sciences)*	Course *(e.g., ENG-1A)*	Does the course meet the Title 5 criteria for GE?	Does the current COR contain at least one GE SLO, or is a modification needed?	
			Active COR has GE SLO	Modification Needed
Language and Rationality	MAT-53	☒	☒	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Item 2: If <u>removing</u> courses, please specify the GE area and list the courses being removed.

GE Area *(e.g., Natural Sciences)*	Courses Removed *(e.g., ENG-101, ENG-102, ENG-103…)*

Item 3: Please specify the final list of courses as it should appear in the catalog for any GE areas your discipline is associated with. Please account for any added or removed courses.

GE Area *(e.g., Natural Sciences)*	Final Course Listing *(e.g., ENG-101, ENG-102, ENG-103…)*

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 April 2021

1 | P a g e

RCCD General Education Plan A Review

Language and Rationality	MAT-1A, MAT-1B, MAT-1C, MAT-2, MAT-3, MAT-5, MAT-10, MAT-11, MAT-12, MAT-12H, MAT-15, MAT-23, MAT-25, MAT-26, MAT-32, MAT-35, MAT-36, MAT-53

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 RCCD General Education Plan A revision proposals must include the following:
☒ Evidence of district-wide discipline communication/agreement
☒ Department minutes showing approval

General Education Area Descriptions/Criteria

RCCD General Education Areas:

A. Natural Sciences (3 units)
Title V §55063 b.1.A: Courses in the natural sciences are those which examine the physical universe, its life forms, and its natural phenomena. To satisfy the general education requirement in natural sciences, a course shall be designed to help the student develop an appreciation and understanding of the scientific method, and encourage an understanding of the relationships between science and other human activities. This category would include introductory or integrative courses in astronomy, biology, chemistry, general physical science, geology, meteorology, oceanography, physical geography, physical anthropology, physics and other scientific disciplines.

B. Social and Behavioral Sciences (6 units)
1. American Institutions (3 units)
Title 5, Div. 5, Chap. 1 [CSU], Subchapter 2, Art. 5, §40404.a: Requirements in United States History, Constitution, and American Ideals: The purpose of the following requirements is to ensure that students acquire knowledge and skills that will help them to comprehend the workings of American democracy and of the society in which they live to enable them to contribute to that society as responsible and constructive citizens. To this end each campus shall provide for comprehensive study of American history and American government including the historical development of American institutions and ideals, the Constitution of

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 April 2021

2 | P a g e

the United States and the operation of representative democratic government under that Constitution, and the processes of state and local government.

2. Social and Behavioral Sciences (3 units)
   Title V §55063 b.1.B: Courses in the social and behavioral sciences are those which focus on people as members of society. To satisfy the general education requirement in social and behavioral sciences, a course shall be designed to develop an awareness of the method of inquiry used by the social and behavioral sciences. It shall be designed to stimulate critical thinking about the ways people act and have acted in response to their societies and should promote appreciation of how societies and social subgroups operate. This category would include introductory or integrative survey courses in cultural anthropology, cultural geography, economics, history, political science, psychology, sociology and related disciplines.

C. Humanities (3 units)
   Title V §55063 b.1.C: Courses in the humanities are those which study the cultural activities and artistic expressions of human beings. To satisfy the general education requirement in the humanities, a course shall be designed to help the student develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creation and help the student develop aesthetic understanding and an ability to make value judgments. Such courses could include introductory or integrative courses in the arts, foreign languages, literature, philosophy, and religion.

D. Language and Rationality (10 units)
   Title V §55063 b.1.D: Courses in language and rationality are those which develop for the student the principles and applications of language toward logical thought, clear and precise expression and critical evaluation of communication in whatever symbol system the student uses. Such courses include:
   1. English composition (4 units)
      Title V §55063 b.1.D.i: Courses fulfilling the written composition requirement shall be designed to include both expository and argumentative writing. Such courses may be taught in disciplines such as, but not limited to, English and English as a Second Language.
   2. Communications and analytical thinking (6-8 units)
      Title V §55063 b.1.D.ii: Courses fulfilling the communication and analytical thinking requirement including, but not limited to oral communication, mathematics, and quantitative reasoning such as logic, statistics, computer languages and programming, and related disciplines.

E. Health Education and Self Development (5 units)
   1. Health Education (3 units)
   2. Self Development (2 or 3 units)

Riverside Community College District General Education Student Learning Outcomes

From the RCCD Curriculum Handbook: Any course in the RCCD pattern is required to align with at least one general education student learning outcomes (GE SLO):

- Critical Thinking. Students will be able to demonstrate higher order thinking skills about issues, problems, and explanations for which multiple solutions are possible. Students will be able to explore problems and, where possible, solve them. Students will be able to develop, test, and evaluate rival hypotheses. Students will be able to construct sound arguments and evaluate the arguments of others.

- Information Competency & Technology Literacy. Students will be able to use technology to locate, organize, and evaluate information. They will be able to locate relevant information, judge the reliability of sources, and evaluate the evidence contained in those sources as they construct arguments, make decisions, and solve problems.

- Communication. Students will be able to communicate effectively in diverse situations. They will be able to create, express, and interpret meaning in oral, visual, and written forms. They will also be able to demonstrate quantitative literacy and the ability to use graphical, symbolic, and numerical methods to analyze, organize, and interpret data.

- Self-Development & Global Awareness. Students will be able to develop goals and devise strategies for personal development and well-being. They will be able to demonstrate an understanding of what it means to be an ethical human being and effective citizen in their awareness of diversity and various cultural viewpoints.

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 April 2021

4 | P a g e

Notes for Spring 2021
RCCD Math Discipline Meeting
May 21, 2021
Zoom

Present: Adriana Aries, Nicolae Baciuna, Amanda Brown, Veasna Chiek, Elisa Chung, Pam Crampton, Rosalia Cueto, Shelly Dawson, Sean Drake, Evan Enright, Gabriela Florido, Janet Frewing, Ginka Gavrilov, John Grenfell, Caroline Hutchings, Fen Johnson, Mary Legner, Bibiana Lopez, Gabriela Maerean, Valerie Merrill, Herbert Morales, Jeff Mulari, Gabriel Murillo, Kathy Nabours, James Namekata, Adam Navas, Ernesto Reyes, Kari Richards-Dinger, Andy Robles, Marc Sanchez, Jeff Warsinski, Jason Wong, and Zhi Yao

1. Introductions
   - Shot outs
   - Happy to go back to campus
   - Difficult to teach while wearing a mask
   - Grown in our teaching
   - Only a Zoom Meeting away from each other
     o Meet more often via Zoom
   - Adriana was just hired to tenue track
   - Mountain Bike Jax Bicycle Center
   - Service Awards via Drive-By

2. Change of wording in Catalogs for RCCD General Education lists (Plan A)
   - Graduation requirements for the Associate Degree (RCC page 59)
     o VI. General Education Requirements
       ▪ Plan A VI. Language and Rationality
         ▪ 2. Communication and analytical thinking
           • Also see MVC page 42 and NC page 38
   - Currently have Math 1-36 but will change to the following list
     o Mathematics: 1A, 1B, 1C, 2, 3, 5, 10, 11, 12, 12H, 15, 23, 25, 26, 32, 35, 36
   - Math 15 is the Statway course
     o In RCC's catalog by never has been offered
     o Will leave in the Catalogs
   - GE for the district
   - This is for local degrees
   - Math 53
     ▪ MVC may be fading out Math 53
     ▪ Faculty noticed the Calculus students are missing some of the skills from Geometry
     ▪ Keep it on the list for it is the same level as Math 35
       ▪ has a prerequisite of Math 52
     ▪ CSET for the Geometry component
     ▪ No harm adding it on the list
     o **Motion: Under Plan A's Communication and analytical thinking add to the list Math 53. M/S/C Robles/Brown**
       ▪ MVC Yes 10 approved
       ▪ NC 5 Yes, 2 Abstain, approved
       ▪ RCC 8 Yes, 3 Abstain, approved
     ▪ **Approved**

3. Curriculum
   - Data Science COR's
     - Math 70A
       - Proposed to have prerequisite of Math 11 or Math 36
       - Need some sort of college level algebra course but Entry Level Skills are supported by Math 35
       - Math 35 shortens the path
       - Cross listed with CS
       - UCR's course is "Foundation of Data Science"
       - Focus on the STEM students could increase the prereq later on
       - Lag before they take Math 70B
       - Tech Review is June 1 next is in October
     - **Motion: Have Math 35 as prerequisite for Math 70A M/S/C Hutchings/Drake**
       - MVC 10 Yes, approved
       - NC 10 Yes, 1 Abstain *Vote taken at a May 2021 department meeting*
       - RCC 8 Yes, 1 No, 4 Abstain approved
       - **Approved**
     - Math 70B
       - Our College Algebra is different more like Intermediate Algebra unlike other local CC's
       - UCR has their Math 5 which is similar to Precalculus
         - Will we use the agreement with UCR?
       - Transformations are in Math 35
     - **Motion: Have Math 10 or 23 and Math 70A as prerequisite to Math 70B Hutchings/Robles**
       - MVC 9 Yes, approved
       - NC 5 Yes, 1 Abstain, approved
       - RCC 11 Yes, approved
       - **Approved**

   - Noncredit
     - Since Intermediate Algebra is not a basic skills course, therefore the proposed mirrored Course did not move past Curriculum's Tech Review

   - Other
     - Math 1A Honors
       - NC and RCC
         - To help STEM students
         - Mendoza is lead at RCC and Janet and Brian are leads at NC
         - Reached out to Honors Faculty at RCC to get the correct language
     - Math 10 & Math 23
       - How in Math 10 some topics we teach that are not needed in Calculus such as induction, etc.

- Replace with Affective Domain topics.
- Is it better for students to know fewer topics at a deeper level or to introduce them to more topics?
  - Streamline courses
  - Why are so many STEM students not getting through their Math classes
  - Don't want to water down material
  - Calculus survival skills
- How will it affect Math 23?
- Drake, Reyes, Chiek, Warsinki, and Mary will bring this back in the Fall

4. Equivalency Committee Representation
   - **Motion: The RCCD Math Discipline representation for equivalency committees will consist of Richards-Dinger (MVC), Mulari (NC), and Reyes (RCC). M/S/C Brown/Drake**
     - Accepted by consent
     - **Approved**

5. RCCD Math section caps
   - RCCD Task Force assembled to how disciplines could formally go through changing section caps
     - Task force reconvening in the Fall
   - English has better success rates and lower class caps
   - Look at what other colleges are doing across the state
   - Request that faculty share any information they find on this topic
   - Will the same class cap be for all our Math classes?
   - *We are the rate limiting step in the district.*
   - Cap set at 30 to 36
     - Class capacity is not the same as room capacity
     - Look at Math 37 success rates which may have a cap size of 36
     - Different way of teaching such as groups and emphasis on projects, etc.
     - Physical layout of classroom such as white boards on the sides of the classroom
       - For example 9 groups of 4
   - **Motion: RCCD Math class cap be set at 30 to 36 depending on data. M/S/C Robles/Merrill**
     - Accepted by consent
     - **Approved**

6. ~~Other~~

7. Next Meeting
   - Friday, September 10 on Zoom

MINUTES
Chemistry Discipline Meeting
June 11, 2021

In attendance via ConferZoom:
RCC: Leo Truttmann, Emily Spencer, Bobbie Grey, Jarrod Williamson, Wendy McKeen, Mike Dahl, and Stacie Eldridge

NC: Jody Tyler, Stan Tyler, Christopher Lugo and Virgil Lee

MVC: Siobhan Feeney and Daniel Bernier

10:06 AM   Meeting Began

- Congratulations was in order on Wendy and Melissa achieving tenure.
- Announcement was made that Mike Dahl was the new full-time tenure track faculty hire for RCC.

Action Items:

- All three colleges voted in favor to approve listing out the Chemistry courses under Area A of the GE requirements. All three also were in favor of moving CHEM 17 to Area B of the GE requirements, despite NC and MVC not offering this course.

Discussion Items:

- Job Description: A discussion about revising the Basic Function section of the Chemistry (full-time tenure track/visiting professor/associate faculty) job description. It was suggested that a committee (2-3 people) get together and work on this for the upcoming year. Norco has something already in the works and Virgil emailed the document to everyone.
  It was made clear that the Chemistry Discipline, as a whole, insists that once a job description has been submitted to H.R. and up the administrative chain, *final approval must be by the faculty that make up the discipline and that this has to be the job description that is flown when an open position is posted.* This has not always been the case in the past. Moving forward, careful consideration must be made to make sure this is how the process is done.
  - Virgil volunteered to inquire if the job description is a district decision and we will proceed from there.

- Chemistry Diagnostic Exam: We have been strongly encouraged by the District Curriculum Committee that if we want to keep the Chemistry Diagnostic Exam as a prerequisite option for getting into CHEM 1A and 1AH, we add it to the COR. Much discussion ensued.
  1. A motion was made (Stacie/Emily) to increase the minimum threshold for passing the exam from less than 50% (22/45) to 69% (31/45). All approved.
  2. Another motion was made (Stacie/Leo) to add the Chemistry Diagnostic Exam to the COR for CHEM 1A/1AH as a prerequisite option, alongside CHEM 2A/3. All approved.

- Lab Course Caps: Norco is seeking support in their endeavor to decrease course caps for their Introductory Chemistry and General Chemistry courses from 32 to 25. They would like to follow the ACS guidelines for the purposes of equity and lab safety. All faculty from RCC and MVC were in support of this endeavor.

- Math Prerequisites: Math 12 and Math 25 are currently listed as an alternative route to meeting the Math 35 prerequisite for CHEM 1A/1AH. It has been strongly suggested by the Curriculum Committee that these two courses be removed from the IT side of CHEM 1A/1AH. This does not change the prerequisite or any outward facing information for the course and the only students blocked will be those without the necessary algebra coursework. Those students would need to take Math 35 prior to enrolling in CHEM 1A/1AH. All in attendance agreed that these courses should be removed from the IT side so students cannot use this loophole to get into CHEM 1A/1AH.

- Discipline Facilitator Need/Role/Replacement: As the current Discipline Facilitator, Stacie iterated that there is a purpose to having one for RCCD Chemistry. This is due to the occasional equivalency or curriculum matter that arises and the fact that our discipline is a cohesive one. We like to keep Chemistry issues consistent across the district, when appropriate. With that said, Stacie would like to step down next fall. She is soliciting for a replacement.

The next Discipline meeting will be during FLEX week in the fall.

11:56 am   Meeting adjourned

From:	Vega Sanchez, Mario
Sent:	Tuesday, June 15, 2021 3:32 PM
To:	TechReview
Cc:	Vega Sanchez, Mario
Subject:	World Language Itemized Courses in Local GE Pattern Course

To Whom It May Concern

The RCCD World Languages discipline met June 4 via Zoom to approve courses to be itemized in the Local GE Pattern Course, and also courses to be removed.

1.   The RCCD World Languages Discipline approved the following courses to be itemized under:

B2.   Social and Behavioral Sciences:

ASL:	22 (is already listed and should remain as is)
Arabic:	11, 11H
Chinese:	11
French:	11
Italian:	11
Japanese:	11
Russian:	11
Spanish	11, 12

2.   The RCCD World Languages Discipline approved the following foreign language courses to be itemized under:

C.   Humanities

ASL:	1, 2, 3, 4
Arabic:	1, 2, 3, 8
Chinese:	1, 2
French	1, 2, 3, 8
Italian:	1, 2, 3
Japanese:	1, 2, 3, 4
Portuguese	1, 2
Russian	1, 2, 3
Spanish	1, 2, 2H, 3, 4, 8

3.   The RCCD World Languages Discipline approved the following courses to be removed from the Local GE Pattern Course:

Spanish: 3N, 13, 51
(Spanish 52 and 53 are not listed in the Local Patter Course but the RCCD World Language Discipline voted to have them removed).

If you have any questions, please don't hesitate to contact me. Thank you in advance for your attention.

Sincerely,

Mario Vega Sánchez
Associate Professor, Spanish
Assistant Chair, Spanish
Discipline Facilitator, RCCD
Moreno Valley College
16130 Lasselle Street, Moreno Valley, CA 92551
mario.vegasanchez@mvc.edu
951.571.6387

From:	Cheney, James
Sent:	Wednesday, May 19, 2021 9:19 AM
To:	TechReview
Subject:	Lists of Courses for General Ed - Physical Science

Hello TechReview!

Our course lists for the general ed reformat:

  Astronomy (AST)   **1A   1B**

  Geology (GEO) **1   1B   1L   2   3   5   30A   30B   31   32**

  Oceanography (OCE)   **1   1L**

  Physical Science (PHS)   **1   5**

  Physics (PHY)   **2A   2B   4A   4B   4C   4D   10   11**

Note: GEO4 was omitted from the Geology list as this course is not a general education course.

Thank you,

James Cheney
Department Chair, Physical Science

From:	Johnson, Brian
Sent:	Wednesday, September 15, 2021 10:54 AM
To:	Nicol, Bryan
Subject:	Fw: GE program update

No change for BIO-35 or HES-1 in the GE program.

Brian Johnson
Associate professor
Norco College

From: FriedrichFinnern, Teresa <Teresa.FriedrichFinnern@norcocollege.edu>
Sent: Tuesday, September 14, 2021 2:51 PM
To: Johnson, Brian <Brian.Johnson@norcocollege.edu>
Subject: GE program update

There's no changes in the GE program update needed for BIO-35 or HES-1.

Teresa J. Friedrich Finnern, Ph.D.
Professor of Biology
Biology Co-Chair for the Science and Kinesiology Department
Norco College

"What I see everywhere in the world are ordinary people willing to confront despair, power, and incalculable odds in order to restore some semblance of grace, justice, and beauty to this world."
— Paul Hawken

From:	Thaler, Catherine
Sent:	Saturday, May 29, 2021 11:22 AM
To:	TechReview
Subject:	GE course list
Attachments:	LS Dept-Meeting-5-4-21.docx; RCCD GE Clean Up-BIOLOGY.docx

Hi -

Please find attached the GE course list for Natural Science - Biology - at RCC.

Short Version - We are keeping all courses in the list EXCEPT - BIO2A and BIO2B. These are RCC courses only so we did not consult with discipline members at other colleges.

Cathy

_____

Dr. Catherine Thaler, Ph. D.

Associate Professor

Life Sciences, MTSC 331

Riverside City College

Nicol, Bryan

From:	Grey, Bobbie
Sent:	Saturday, July 03, 2021 12:26 PM
To:	TechReview; Eldridge, Stacie
Subject:	Chemistry Courses - GE Requirements
Attachments:	DisciplineMeetingMinutes_6-11-2021.pdf

Hi folks,

Attached are the approved chemistry discipline meeting minutes regarding how chemistry courses are listed in the RCCD GE requirements. We have approved listing out all of our courses under Area A with the exception of CHE 17. Chemistry 17 should be moved to Area B, Social and Behavioral Sciences, which will match CHE 17's location in the UC and CSU requirements.

Thank you!

Bobbie

From:	Kearn, Tammy
Sent:	Thursday, May 27, 2021 8:41 AM
To:	TechReview
Subject:	GE Clean up - ENG
Attachments:	May 25 2021 Minutes- English Dept Meeting.docx; Moreno Valley Discussion and Vote - RCCD GE Clean Up - ENGLISH.docx; NORCO Discussion and Vote - RCCD GE Clean Up - ENGLISH.docx; RCCD GE Clean Up - ENGLISH.docx

Hi Steven,

Please find our RCCD GE Clean up for ENG, plus discipline discussion and department votes, attached. (Hope your concert went well!)

Thanks!
Tammy

Dr. Tammy Kearn
Professor of English
Curriculum Committee Rep.
Dept. of English and Media Studies
Riverside City College

"Life is short. Hurry to be kind."
~Author unknown

From:	Boshara, Jay
Sent:	Wednesday, May 05, 2021 5:43 PM
To:	TechReview
Cc:	Hayes, James
Subject:	FW: Change in catalog presentation of General Education (RCC) courses
Attachments:	Local GE Pattern Course List with disc highlights.docx; General Education Area Descriptions Criteria.pdf; Transition Plan DRAFT for Listing of Courses in General Education Program.pdf

TechReview:

The RCCD Geography discipline has reviewed the attached Local GE Pattern List (after it was corrected to include GEG-1L as a Natural Sciences GE), and we verify that it is correct and needs no further changes.

Thanks,

Jay Boshara
Associate Professor of Geography
RCC Curriculum Committee member
Riverside City College, MA 110
4800 Magnolia Avenue
Riverside, CA 92506
(951)222-8245
Jay.Boshara@rcc.edu

> **From:** "Douglass, Kelly" <Kelly.Douglass@rcc.edu>
> **Date:** Wednesday, May 5, 2021 at 1:58 PM
> **To:** "OConnell, Paul" <Paul.OConnell@rcc.edu>, "Knieriem, James" <James.Knieriem@rcc.edu>, "Taube, Rhonda" <Rhonda.Taube@rcc.edu>, "Soto, Jeff" <Jeff.Soto@rcc.edu>, "Brown, Jami" <Jami.Brown@rcc.edu>, "Lehr, Janet" <Janet.Lehr@rcc.edu>, "Judon, Laneshia" <Laneshia.Judon@rcc.edu>, "Eldridge, Stacie" <Stacie.Eldridge@rccd.edu>, "Ruth, Clifford" <Clifford.Ruth@rcc.edu>, "Westbrook, Peter" <Peter.Westbrook@rcc.edu>, "Schultz, Garth" <Garth.Schultz@rcc.edu>, "Magno, Karyn" <Karyn.Magno@rcc.edu>, "Cazares, Debbie" <Debbie.Cazares@rcc.edu>, "Dariush Haghighat, Ph.D." <Dariush.Haghighat@rcc.edu>, "Sell, Kathleen" <Kathleen.Sell@rcc.edu>, "Scott-Coe, Jo" <Jo.Scott-Coe@rcc.edu>, "Taylor, Star" <Star.Taylor@rcc.edu>, "Borses, Daniel" <Daniel.Borses@rcc.edu>, "Sigloch, Steven" <Steven.Sigloch@rcc.edu>, "Lowden, Clara" <Clara.Lowden@rcc.edu>, "Lesch, Jacqueline" <Jacqueline.Lesch@rcc.edu>, "Hammock, Shannon" <Shannon.Hammock@rcc.edu>, "Herrick, Scott" <Scott.Herrick@rcc.edu>, "Brown, Amanda" <Amanda.Brown@rcc.edu>, "Sanchez, Marc" <Marc.Sanchez@rcc.edu>, "Cowart, Amy" <Amy.Cowart@rcc.edu>, "Weeks, Gina" <Gina.Weeks@rcc.edu>, "Reimer, Kimberly" <Kimberly.Reimer@rcc.edu>, "Mayse, Kevin" <Kevin.Mayse@rcc.edu>, "Richard, Charles" <Charles.Richard@rcc.edu>, "Knecht, Jasminka"

<Jasminka.Knecht@rcc.edu>, "Julian, Jodi" <Jodi.Julian@rcc.edu>, "Chenoweth, Rita"
<Rita.Chenoweth@rcc.edu>, "Cheney, James" <James.Cheney@rcc.edu>, "Yount, Gwen"
<Gwen.Yount@rcc.edu>
Cc: "Douglass, Kelly" <Kelly.Douglass@rcc.edu>, "Bettencourt, Madeline"
<Madeline.Bettencourt@rcc.edu>, "Black, Michelle" <Michelle.Black@rcc.edu>, Jay Boshara
<Jay.Boshara@rcc.edu>, "Brown, Deborah" <Deborah.Brown@rcc.edu>, "Conrad, Paul"
<Paul.Conrad@rcc.edu>, "Brown-Drinkwater, Ellen" <Ellen.Brown-Drinkwater@rcc.edu>, "Hernandez,
Scott" <Scott.Hernandez@rcc.edu>, "Gibbons-Anderson, Joan" <Joan.Gibbons-Anderson@rcc.edu>,
"Grey, Bobbie" <Bobbie.Grey@rcc.edu>, "Haines, Mark" <Mark.Haines@rcc.edu>, "Jew, Robert"
<Robert.Jew@rcc.edu>, "Lowden, Clara" <Clara.Lowden@rcc.edu>, "Magno, Karyn"
<Karyn.Magno@rcc.edu>, "Pessah, Samuel" <Samuel.Pessah@rcc.edu>, "Sappenfield, Aaron"
<Aaron.Sappenfield@rcc.edu>, "Schmidt, Steven" <Steven.Schmidt@rcc.edu>, "Thaler, Catherine"
<Catherine.Thaler@rcc.edu>, "Vermillion, Amy" <Amy.Vermillion@rcc.edu>, "Williams, Kweku"
<Kweku.Williams@rcc.edu>, "Greene, Casandra" <Casandra.Greene@rcc.edu>, "Rangel, Toni"
<Toni.Rangel@rcc.edu>, "Kearn, Tammy" <Tammy.Kearn@rcc.edu>, "Jaramillo, Albert"
<ajaramillo35@student.rccd.edu>, "DiMemmo, Kristine" <Kristine.DiMemmo@rcc.edu>, "Hammock,
Shannon" <Shannon.Hammock@rcc.edu>, "Ahumada, Juan" <Juan.Ahumada@rcc.edu>
Subject: Change in catalog presentation of General Education (RCC) courses

Greetings chairs,
The Academic Standards committee has created a transition plan to create uniformity and clarity in the
way that our general education courses are presented in the catalog. Currently, on pages 43-44 in our
catalog the RCCD Plan A Gen Ed plan has a mix in each area of courses that are listed out individually by
discipline and number (anthropology 1 or 1H) and others that list the whole discipline (Astronomy). We
are moving to a presentation that itemizes all the courses in that area. Your curriculum rep received
this information at the April 27 meeting, but when I presented on this at the May 3 Senate meeting, I
was asked to share with the department chairs as well.

Before your discipline leaves for the summer, we need disciplines to email techreview@rcc.edu and let
us know that you have looked at the proposed lists (based on itemizing what was already in the
catalog) and let us know if everything as listed is what should be in the catalog, or if there are any
courses that as we expanded from a collective discipline name to specific courses, you now realize do
not belong in the catalog as general education course. (For example, English is listed in Area C as a
collective discipline, so when we expanded the list, English 1A was listed, but this shouldn't be an Area
C course.) All gen ed courses must have gen ed SLOs linked to the course SLOs.

Attached is the list of courses (the boxed portion is what the catalog says now; the list below is the
proposed change) and the Title V descriptions of what a class in this category should do to fit this
category. I've also attached the directions for what we need, but it is a draft, and likely more detailed
than is needed. We just need you to review your list and make corrections (or say good as is) and send
us those corrections (techreview@rccd.edu) before the discipline closes shop for the summer.

Thank you,
Kelly
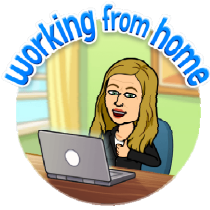
Kelly Douglass, PhD
Associate Professor of English
RCC Curriculum Committee Chair

AB705 Coordinator for English
Riverside City College
4800 Magnolia Avenue
Riverside, California 92506
951-222-8768

Resources for students: https://www.rcc.edu/student-support/index.html

District Covid 19 Information Page: https://www.rccd.edu/admin/bfs/risk/Pages/covid_19.aspx

From:	Bobo, Michael
Sent:	Friday, April 30, 2021 8:00 AM
To:	TechReview
Cc:	Johnson, Brian
Subject:	Fwd: GE RCCD Curriculum

Hello,

Humanities has voted to keep the GE List as is without any changes.

Thank you,

Michael Bobo
Assistant Professor, Humanities
Michael.Bobo@norcocollege.edu

From: Gerdes, Kirsten <Kirsten.Gerdes@rcc.edu>
Sent: Wednesday, April 28, 2021, 8:16 PM
To: Bobo, Michael
Cc: Maroufkhani, Kevin; Rocco, Christopher
Subject: Re: GE RCCD Curriculum

That sounds good to me!

Kirsten Gerdes
Assistant Professor, Humanities & Philosophy
Physical Office: Quad 21-c
Virtual Office: https://riverside.craniumcafe.com/kirstengerdes
Riverside City College
4800 Magnolia Ave.
Riverside, CA 92506
(951) 222-8758
kirsten.gerdes@rcc.edu

"Human beings are magical. Bios and Logos. Words made flesh, muscle and bone animated by hope and desire, belief materialized in deeds, deeds which crystallize our actualities. And the maps of spring always have to be redrawn again, in undared forms." –Sylvia Wynter

On Apr 28, 2021 at 20:16, <Michael Bobo> wrote:

Hello Chris,

1

I just need a vote to send to Tech Review. Chris, is that a Yes vote?

For the record, I am a yes vote. I would like all HUM courses listed as GE for RCCD.

Kirsten and Kevin, do you agree to keep our GE list as is? I would kindly request your feedback to formalize this decision.

Thank you,

Michael

Michael Bobo

Assistant Professor, Humanities

Michael.Bobo@norcocollege.edu

From: Rocco, Christopher <Christopher.Rocco@mvc.edu>
Sent: Wednesday, April 28, 2021 8:10:35 PM
To: Bobo, Michael <Michael.Bobo@norcocollege.edu>; Gerdes, Kirsten <Kirsten.Gerdes@rcc.edu>; Maroufkhani, Kevin <Kevin.Maroufkhani@rcc.edu>
Subject: Re: GE RCCD Curriculum

Any reason not to keep this list as is?

Chris Rocco
Associate Professor of Humanities
Moreno Valley College
951 571-6244

From: Bobo, Michael <Michael.Bobo@norcocollege.edu>
Sent: Tuesday, April 27, 2021 3:01 PM
To: Rocco, Christopher <Christopher.Rocco@mvc.edu>; Gerdes, Kirsten <Kirsten.Gerdes@rcc.edu>; Maroufkhani, Kevin <Kevin.Maroufkhani@rcc.edu>; Bobo, Michael <Michael.Bobo@norcocollege.edu>
Subject: GE RCCD Curriculum

Hello Humanities Colleagues,

District Curriculum requests information:

RCCD General Education courses in Area C include all HUM courses: **HUM 4, HUM 4H, HUM 5, HUM 5H, HUM 8, HUM 9, HUM 10, HUM 10H, HUM 11, HUM 16, HUM 18, HUM 20A, HUM 20B, HUM 20C, HUM 23, HUM 35.**

Do we agree to keep the list as is?

1. *If we agree with this decision*, please respond to this email with a YES vote. When we have all voted, I will send our approval to Tech Review, so we are covered in the Fall 2021 Catalog.
2. *If we want to move some courses out of GE*, we need to discuss a new GE list and vote to approve it.

Thank you,

Michael Bobo

M.A., Humanities
Master of Liberal Arts
Assistant Professor, Humanities

Duties:
Norco Academic Senate, Alternate (AHWL)
Curriculum Committee Member (AHWL)
Humanities Faculty & Student Mentor
Clear Perspectives Faculty Advisor

2001 Third Street, Norco, CA 92860

From:	Black, Michelle
Sent:	Tuesday, June 01, 2021 10:42 PM
To:	TechReview
Cc:	Sanchez, Marc; Brown, Amanda
Subject:	Mathematics GESLO cleanup
Attachments:	Notes_Spring_2021-RCCD_Math_Discipline_Meeting_052121 draft 3[31117].pdf; RCCD GE Clean Up Mathematics.docx

Hello,

The math department/discipline discussed the math courses listed in the RCCD general education list under Language and Rationality. The discipline voted to include Math 53 to the existing list.
The new list should be as follows:
MAT-1A, MAT-1B, MAT-1C, MAT-2, MAT-3, MAT-5, MAT-10, MAT-11, MAT-12, MAT-12H, MAT-15, MAT-23, MAT-25, MAT-26, MAT-32, MAT-35, MAT-36, MAT-53
This is noted in the attached form and was voted on in the attached discipline minutes.
Thank you.

Michelle Black
Assistant Professor, Mathematics
Riverside City College
Office: MTSC 140

Nicol, Bryan

From:	Schmidt, Steven
Sent:	Thursday, May 13, 2021 7:31 PM
To:	TechReview
Subject:	RCCD GE Update MUS
Attachments:	RCCD GE Review Music Update 051221.docx; Update to RCCD GE Area E Department Discipline Vote.pdf

Please see attached. -S

Steven Schmidt, Associate Professor of Music
Percussion, Music Technology, Music Theory
Chair, Technical Review Committee
http://faculty.rcc.edu/schmidt
steven.schmidt@rcc.edu
Voice: 951-222-8248 Text: 951-977-1360
RCC Henry W. Coil, Sr. and Alice Edna Coil School for the Arts
3890 University Ave • Riverside, CA 92501

Nicol, Bryan

From:	Sinigaglia, Nick
Sent:	Saturday, May 15, 2021 9:54 AM
To:	TechReview
Cc:	Pfeifle, Ann; Fernandez, Sabina
Subject:	completed GE Review form for Philosophy
Attachments:	RCCD GE Review-Philosophy.docx; Supporting evidence - philosophy.docx

Hi, Here is the completed GE Review form and supporting documents for Philosophy. Please let me know if there are any corrections we need to make or anything else we should do here. Thanks! -Nick

Nicol, Bryan

Theatre is good !

From:	Vega Sanchez, Mario
Sent:	Tuesday, June 15, 2021 3:32 PM
To:	TechReview
Cc:	Vega Sanchez, Mario
Subject:	World Language Itemized Courses in Local GE Pattern Course

To Whom It May Concern

The RCCD World Languages discipline met June 4 via Zoom to approve courses to be itemized in the Local GE Pattern Course, and also courses to be removed.

1.   The RCCD World Languages Discipline approved the following courses to be itemized under:

B2.   Social and Behavioral Sciences:

ASL:	22 (is already listed and should remain as is)
Arabic:	11, 11H
Chinese:	11
French:	11
Italian:	11
Japanese:	11
Russian:	11
Spanish	11, 12

2.   The RCCD World Languages Discipline approved the following foreign language courses to be itemized under:

C.   Humanities

ASL:	1, 2, 3, 4
Arabic:	1, 2, 3, 8
Chinese:	1, 2
French	1, 2, 3, 8
Italian:	1, 2, 3
Japanese:	1, 2, 3, 4
Portuguese	1, 2
Russian	1, 2, 3
Spanish	1, 2, 2H, 3, 4, 8

3.   The RCCD World Languages Discipline approved the following courses to be removed from the Local GE Pattern Course:

Spanish:	3N, 13, 51
	(Spanish 52 and 53 are not listed in the Local Patter Course but the RCCD World Language Discipline voted to have them removed).

If you have any questions, please don't hesitate to contact me. Thank you in advance for your attention.

Sincerely,

Mario Vega Sánchez
Associate Professor, Spanish
Assistant Chair, Spanish
Discipline Facilitator, RCCD
Moreno Valley College
16130 Lasselle Street, Moreno Valley, CA 92551
mario.vegasanchez@mvc.edu
951.571.6387

Technical Review - Curriculum Proposals

Proposals for 09/21/2021

Courses

Course Deletions

			M N R	Notes

H **CAT 3**   **Computer Applications for Business**   ☑☑☑

Holding for further clarification on if faculty intend to move forward with the deletion. Norco approval also did not appear to be present.

H **CAT 54A**   **Introduction to Flash**   ☑☐☐

Minutes are from 2011. No deletion for 54B? Holding for further clarification.

H **CAT 84**   **Word Processing: WordPerfect for Windows**   ☐☐☑

Awaiting program modifications - RIV Paralegal and MOV Computer Applications.

H **CIS 3**   **Computer Applications for Business**   ☑☑☑

Holding for further clarification on if faculty intend to move forward with the deletion. Norco approval also did not appear to be present.

H **CIS 84**   **Word Processing: WordPerfect for Windows**   ☐☐☑

Awaiting program modifications - RIV Paralegal and MOV Computer Applications.

Course Major Modifications

			M N R	Notes

BUS 82   **Freight Claims**   ☐☑☐

BUS 83   **Contracts**   ☐☑☐

BUS 85   **Warehouse Management**   ☐☑☐

BUS 86   **Transportation and Traffic Management**   ☐☑☐

BUS 87   **Purchasing and Supply Management**   ☐☑☐

BUS 90   **International Logistics**   ☐☑☐

H **CIS 30A**   **Introduction to Python Programming**   ☑☑☑

For all CIS-30 series, Norco being added. All GESLOs were added, which may not be correct. Holding for clarification.

H **CIS 30B**   **Python Programming in Networking**   ☑☑☐

H **CIS 30C**   **Python Programming in Cybersecurity**   ☑☑☐

H **CIS 30D**   **Python Programming for Internet of Things (IoT)**   ☑☑☐

H **CIS 30E**   **Advanced Python Programming**   ☑☑☐

H **ESL 65**   **American Classroom Culture**   ☑☑☑

Content is one level. Entrance skills may need to be reviewed. NOR has been added.

H **ESL 95**   **Pronunciation and Accent Reduction**   ☑☑☑

Content is one level. Only has one SLO, but may be appropriate for the course. Entrance skills may need to be reviewed. MOV has been added.

Courses

Course Major Modifications

			M	N	R	Notes
	FIT CFO3A	Human Resources Management Chief Fire Officer	☑	☐	☐	
	FIT CFO3B	Budget and Fiscal Responsibilities Chief Fire Officer	☑	☐	☐	
	FIT CFO3C	General Administration Functions Chief Fire Officer	☑	☐	☐	
	FIT CFO3D	Emergency Service Delivery Responsibilities	☑	☐	☐	
	FIT CO2A	Human Resource Management	☑	☐	☐	
	FIT CO2B	General Administrative Functions	☑	☐	☐	
	FIT CO2C	Fire Inspections and Investigations	☑	☐	☐	
	FIT CO2D	All Risk Command Operations	☑	☐	☐	
	FIT CO2E	Wildland Incident Operations	☑	☐	☐	
	FIT S21	Public Safety Honor Guard Academy	☑	☐	☐	
H	FIT S3	Basic Fire Fighter Academy	☑	☐	☐	

Held awaiting objectives.

			M	N	R	Notes
	FIT S3A	Introduction to Fire Academy and Physical Conditioning for Fire Academy Students	☑	☐	☐	
	FIT S3B	Firefighter I Academy Skills Review and Certification	☑	☐	☐	
H	HLS 50	Developing a Personal Philosophy of Leadership and Ethics	☑	☐	☐	

Formatting clean up needed. SLOs and objectives almost seem to be reversed. The language in the methods section could use more discipline integration. Also have GESLOs.

			M	N	R	Notes
H	HLS 51	Leading Others Ethically	☑	☐	☐	
H	HLS 52	Ethical Leadership in Organizations	☑	☐	☐	
H	HLS 53	Ethics and the Challenge of Leadership	☑	☐	☐	

New Courses

			M	N	R	Notes
H	ARE 62	Print Reading for Construction	☐	☑	☐	

Crosslisted with CON-62. CON-62 needs a major mod and may have light course content. Should be degree credit.

			M	N	R	Notes
H	ARE 63	3D Tour, Virtual, Mixed, Augmented and Extended Reality	☐	☑	☐	

Credit type needs clarification, should be degree credit. Advisories not linked. Course content only at one level. Methods section may need discipline integration. Has GESLOs. TOP code should match ARE 62.

Courses

New Courses

			M	N	R	Notes
H	**CIS 48A**	**Introduction to Cloud Computing**	☑	☐	☑	
	For all CIS below, holding for clean up concerns and clarification of intent.					
H	**CIS 68A**	**Introduction to Machine Learning**	☑	☐	☑	
H	**CIS 68B**	**Big Data Fundamentals**	☑	☐	☑	
H	**CIS 70A**	**Foundations of Data Science**	☑	☐	☑	
H	**CIS 848A**	**Cloud Computing Fundamentals**	☑	☐	☐	
H	**CIS 87A**	**Introduction to IT Project Management**	☑	☐	☐	
H	**CIS 87B**	**IT Project Management Framework**	☑	☐	☑	
H	**DFT 31**	**Advanced Computer Aided Drafting (CAD)**	☐	☑	☐	
	Repeatability, entrance skills. Rationale also discusses DE, but there does not appear to be a DE proposal.					
H	**DFT 41**	**Engineering Graphics**	☐	☑	☐	
	Appears to be crosslisted with ENE-41, but don't exactly match.					
H	**DFT 62**	**Basic Fusion 360**	☐	☑	☐	
H	**DFT 63**	**Advanced Fusion 360**	☐	☑	☐	
	Methods of Instruction formatting needs cleaning up.					

Disciplines

New Disciplines

			M	N	R	Notes
	INT	**Industrial Automation**	☑	☐	☐	

General Education

General Education Modifications

			M	N	R	Notes
H	**CIS**	**GE D2 CIS 1A 5 14A 17A 18A 30A**	☑	☑	☑	
	These courses are already listed on the itemized sheet. Unclear what the submission is for. Holding for clarification.					
H	**CSC**	**GE D2 5 7 8 17A 18A**	☑	☑	☑	

Programs

New Programs

			M	N	R	Notes
	Certificate					
H	**ARE**	**Essential 3D Tour**	☐	☑	☐	
	Held for courses. Bryan will forward info on crosslisted courses.					

Programs

New Programs

			M	N	R	Notes

Certificate

			M	N	R	Notes
H	**ARE**	**Essential Revit**	☐	☑	☐	
	Held for courses.					
H	**CIS**	**Data Analytics**	☑	☐	☐	
	Held for courses.					
H	**DFT**	**Essential CAD**	☐	☑	☐	
	Held for courses.					
H	**DFT**	**Essential Fusion 360**	☐	☑	☐	
	Held for courses.					
H	**DFT**	**Essential SolidWorks**	☐	☑	☐	
	Held for courses.					

Degree

			M	N	R	Notes
H	**CIS**	**Data Science**	☑	☐	☐	
	Held for courses.					

Degree & Certificate

			M	N	R	Notes
H	**HLS**	**Emergency Management and Homeland Security - Leadership**	☑	☐	☐	
	Held for courses.					

Program Modifications

			M	N	R	Notes

Certificate

			M	N	R	Notes
	COS	**Cosmetology Instructor Training**	☐	☐	☑	
	THE	**Musical Theatre**	☐	☐	☑	

Degree & Certificate

			M	N	R	Notes
	AUB	**Automotive Technology - Automotive Trim and Upholstery**	☐	☐	☑	
H	**WEL**	**Welding Technology**	☐	☐	☑	
	Holding for department minutes.					

Technical Review Committee
Proposals for Review for Meeting: 09/21/2021

Courses

Course Deletions

			M N R	Discussion	Action

H **CAT 3** **Computer Applications for Business** ☑☑☑ Holding for further clarification on if faculty intend to move forward with the deletion. Norco approval also did not appear to be present.
Rationale: Revision of every component of this COR was completed as a part of the district discipline CTE 2 Year Curriculum Review Cycle (2/2020)

H **CAT 54A** **Introduction to Flash** ☑☐☐ Minutes are from 2011. No deletion for 54B? Holding for further clarification.
Rationale: Update to COR.

H **CAT 84** **Word Processing: WordPerfect for Windows** ☐☐☑ Awaiting program modifications - RIV Paralegal and MOV Computer Applications.
Rationale: Course is being deleted from the Riverside Course inventory.

H **CIS 3** **Computer Applications for Business** ☑☑☑ Holding for further clarification on if faculty intend to move forward with the deletion. Norco approval also did not appear to be present.
Rationale: Revision of every component of this COR was completed as a part of the district discipline CTE 2 Year Curriculum Review Cycle (beg. 12/2016)

H **CIS 84** **Word Processing: WordPerfect for Windows** ☐☐☑ Awaiting program modifications - RIV Paralegal and MOV Computer Applications.
Rationale: Course is being deleted from the Riverside Course inventory.

Course Major Modifications

			M N R	Discussion	Action

BUS 82 **Freight Claims** ☐☑☐
Rationale: This Course Major Modification: 1. Modifies the SLO's, moving some to Course Objectives. 2. Populates the Course Objectives field. 3. Updates the course material. (NOTE: Although textbooks are dated, they remain the most authoritative sources. There appears to be no other full-text options. An addition to the Course Material listing makes clear the use of more recent content specific material is an instructor option.)

Technical Review Proposals for 09/21/21
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.

Page 1 of 12

Courses

Course Major Modifications

			M N R	Discussion	Action

			M	N	R	Discussion
	BUS 83	**Contracts**	☐	☑	☐	
	Rationale:	This Course Major Modification: 1. Modifies the SLO's, moving some to Course Objectives. 2. Populates the Course Objectives field. 3. Updates the course material. (NOTE: Although textbooks are dated, they remain the most authoritative sources. There appears to be no other full-text options. An addition to the Course Material listing makes clear the use of more recent content specific material is an instructor option.)				
	BUS 85	**Warehouse Management**	☐	☑	☐	
	Rationale:	This Course Major Modification: 1. Modifies the SLO's, moving some to Course Objectives. 2. Populates the Course Objectives field. 3. Updates the course material.				
	BUS 86	**Transportation and Traffic Management**	☐	☑	☐	
	Rationale:	This Course Major Modification: 1. Modifies the SLO's, moving some to Course Objectives. 2. Populates the Course Objectives field. 3. Updates the course material.				
	BUS 87	**Purchasing and Supply Management**	☐	☑	☐	
	Rationale:	This Course Major Modification1. Modifies the SLO's, moving some to Course Objectives.2. Populates the Course Objectives field.3. Updates the course material.				
	BUS 90	**International Logistics**	☐	☑	☐	
	Rationale:	This Course Major Modification1. Modifies the SLO's, moving some to Course Objectives.2. Populates the Course Objectives field.3. Updates the course material.				
H	**CIS 30A**	**Introduction to Python Programming**	☑	☑	☑	For all CIS-30 series, Norco being added. All GESLOs were added, which may not be correct. Holding for clarification.
	Rationale:	Major course modification is needed to include general education SLO to meet UC and CSU general education requirement along with changing course prerequisite (CIS-1A) to be advisory to be more inclusive of students who already have the technical and computing skills for programming.				
H	**CIS 30B**	**Python Programming in Networking**	☑	☑	☐	
	Rationale:	Per discipline recommendation, major course modification is needed to include general education SLOs and change course prerequisite, CIS-1A.				

Technical Review Proposals for 09/21/21
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.

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Courses

Course Major Modifications		M N R	Discussion	Action

H   **CIS 30C**   **Python Programming in Cybersecurity**   ☑ ☑ ☐

Rationale: Per recommendation of CIS discipline, course major modification is needed to include general education SLOs to meet UC/CSU general education course articulation requirement. Change of course prerequisite, CIS-1A, to advisory will help increase student diversity and inclusion in this certificate. Course materials are also updated to include up-to-date resources and books as there has been changes to programming libraries and Python versions.

H   **CIS 30D**   **Python Programming for Internet of Things (IoT)**   ☑ ☑ ☐

Rationale: Per discipline recommendation, this major modification includes general education SLOs to meet UC/CSU requirement for articulation. Textbook and course materials are also updated due to changes in Python versions and libraries.

H   **CIS 30E**   **Advanced Python Programming**   ☑ ☑ ☐

Rationale: Per discipline recommendation, course major modification includes general education SLOs to meet UC/CSU articulation requirement. This modification also includes course materials updates as Python version and libraries have changed.

H   **ESL 65**   **American Classroom Culture**   ☑ ☑ ☑   Content is one level. Entrance skills may need to be reviewed. NOR has been added.

Rationale: The purpose of this modification is to conduct a standard review of content, update texts, add new course objectives, and align to new course sequence.

H   **ESL 95**   **Pronunciation and Accent Reduction**   ☑ ☑ ☑   Content is one level. Only has one SLO, but may be appropriate for the course. Entrance skills may need to be reviewed. MOV has been added.

Rationale: ESL is revising the support courses to align with the new sequence of core ESL courses which were revised to align with AB705 recommendations. In addition, advisories and textbooks are being updated.

FIT CFO3A   **Human Resources Management Chief Fire Officer**   ☑ ☐ ☐

Rationale: Designed to provide students with knowledge of the human resource requirements related to the roles and responsibilities of a Chief Fire Officer including developing plans for employee accommodations, developing hiring procedures, establishing personnel assignments, and developing a measurable accident and injury program. This course is essential in the professional development of senior fire officers.

Technical Review Proposals for 09/21/21
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Courses

Course Major Modifications   M N R   Discussion   Action

FIT CFO3B   **Budget and Fiscal Responsibilities Chief Fire Officer**   ☑ ☐ ☐

Rationale: This California State Fire Training course is designed to provide senior fire service officers with information on the roles and responsibilities of budgeting for a Chief Fire Officer. This includes developing a budget management system, a department budget, and also elaborates on the process for ensuring competitive bidding.

FIT CFO3C   **General Administration Functions Chief Fire Officer**   ☑ ☐ ☐

Rationale: This course is required by California State Fire Training to help senior fire officers progress to the rank of Chief Officer.

FIT CFO3D   **Emergency Service Delivery Responsibilities**   ☑ ☐ ☐

Rationale: This course required by California State Fire Training ensures senior fire officers have the education needed to promote to advanced leadership positions.

FIT CO2A   **Human Resource Management**   ☑ ☐ ☐

Rationale: This professional development course developed through California's Office of State Fire Training is designed to provide information for Company Officers on the use of human resources to accomplish assignments, evaluate members performance, supervising personnel, and integrating health and safety plans, polices, and procedures into daily activities as well as the emergency scene.

FIT CO2B   **General Administrative Functions**   ☑ ☐ ☐

Rationale: Designed by California's Office of State Fire Training to provide professional development and training for Firefighters on general administrative functions and the implementation of department policies and procedures. The course also addresses conveying the fire department's role, image, and mission to the public.

FIT CO2C   **Fire Inspections and Investigations**   ☑ ☐ ☐

Rationale: This California State Fire Training Course is designed to provide students with information on conducting inspections, identifying hazards and fire code violations while performing a fire investigation to determine preliminary cause. It will also discuss securing an incident scene while preserving evidence.

Technical Review Proposals for 09/21/21
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.

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Courses

Course Major Modifications

		M N R	Discussion	Action

FIT CO2D — **All Risk Command Operations** ☑☐☐

Rationale: This course designed by California's Office of state Fire Training provides professional development for career firefighters to provide information on conducting incident size-up, developing and implementing an initial plan of action involving single and multiunit operations for various types of emergency incidents to mitigate emergency situations by following agency safety procedures, conducting pre-incident planning, and conduct a post-incident analysis.

FIT CO2E — **Wildland Incident Operations** ☑☐☐

Rationale: This California State Fire Training course is designed to provide information on evaluating and reporting incident conditions, analyzing incident needs so they can develop and implementing a plan of action. Additionally, students will be able to deploy incident resources to suppress a wildland fire, establish an incident command post, and complete incident reports.

FIT S21 — **Public Safety Honor Guard Academy** ☑☐☐

Rationale: This highly sought after course provides public safety personnel in the region with the military drill and ceremony training to appropriately conduct formal events for their perspective agencies.

H **FIT S3** — **Basic Fire Fighter Academy** ☑☐☐ Held awaiting objectives.

Rationale: Update SLO's due to Assessment results.

FIT S3A — **Introduction to Fire Academy and Physical Conditioning for Fire Academy Students** ☑☐☐

Rationale: This course focuses on the nutritional and physical aspects that are imperative for student success in FIT S3-Fire Academy.

FIT S3B — **Firefighter I Academy Skills Review and Certification** ☑☐☐

Rationale: This course ensures previous students have the opportunity to certify on skills required by the State of California that were not previously offered at MVC. This helps ensure students who previously attended FIT S3 have the certifications to increase their opportunity and marketability for employment.

H **HLS 50** — **Developing a Personal Philosophy of Leadership and Ethics** ☑☐☐ Formatting clean up needed. SLOs and objectives almost seem to be reversed. The language in the methods section could use more discipline integration. Also have GESLOs.

Rationale: This modification updates the COR to align with the latest IPSLEI curriculum and move the course from FIT to HLS.

Technical Review Proposals for 09/21/21
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Courses

Course Major Modifications

			M N R	Discussion	Action

H **HLS 51** — **Leading Others Ethically** · ☑ ☐ ☐
Rationale: This modification updates the COR to align with the latest IPSLEI curriculum and move the course from FIT to HLS.

H **HLS 52** — **Ethical Leadership in Organizations** · ☑ ☐ ☐
Rationale: This modification updates the COR to align with the latest IPSLEI curriculum and move the course from FIT to HLS.

H **HLS 53** — **Ethics and the Challenge of Leadership** · ☑ ☐ ☐
Rationale: This modification updates the COR to align with the latest IPSLEI curriculum and move the course from FIT to HLS.

New Courses

			M N R	Discussion	Action

H **ARE 62** — **Print Reading for Construction** · ☐ ☑ ☐
Rationale: This cross-listed/mirrored course is used for new Architectural certificate as "3D Tour"
Discussion: Crosslisted with CON-62. CON-62 needs a major mod and may have light course content. Should be degree credit.

H **ARE 63** — **3D Tour, Virtual, Mixed, Augmented and Extended Reality** · ☐ ☑ ☐
Rationale: High demand in emerging technologies inn BIM, VR, AR, MR and XR for presenting space design.This course can be a part of new certificate in 3D tour.
Discussion: Credit type needs clarification, should be degree credit. Advisories not linked. Course content only at one level. Methods section may need discipline integration. Has GESLOs. TOP code should match ARE 62.

H **CIS 48A** — **Introduction to Cloud Computing** · ☑ ☐ ☑
Rationale: This course 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.
Discussion: For all CIS below, holding for clean up concerns and clarification of intent.

Technical Review Proposals for 09/21/21
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Courses

New Courses
M N R   Discussion   Action

H **CIS 68A**   **Introduction to Machine Learning**   ☑ ☐ ☑

Rationale: This course is part of Data Science and Data Analytics program. It introduces
students to concepts and theories of Machine Learning to prepare students of
coursework and career in Computer Science and Data Science. The knowledge
and skillsets provided in this course will help student prepare for STEM
workforce. This course also aims to increase student population diversity in STEM
by providing computational and statistical skills that will help learners build
careers in data analytics, programming and engineering.

H **CIS 68B**   **Big Data Fundamentals**   ☑ ☐ ☑

Rationale: This course is part of the Data Science A.S degree and Data Analytic certificate
programs. This course is aimed to build data analytic skills that will help student
establish their career and/or prepare students for university studies in Data
Science. This course promotes STEM education that will aid in creasing technical
workforce diversity in Inland Empire region.

H **CIS 70A**   **Foundations of Data Science**   ☑ ☐ ☑

Rationale: Foundations of Data Science will attract students to the Data Science Certificate
and Program. They will be exposed to an industry-leading programming language
and statical inference for data driven decision-making. This course will prepare
students to be successful in Statistics for STEM and Introduction to Python. The
Data Analytics Certificate and Associates Degree in Data Science prepares
students for Junior Data Analyst positions. The U.S. Bureau of Labor Statistics
reports that the demand for data science skills will drive a 27.9 percent rise in
employment in the field through 2026. Data Scientist make businesses grow
better and are the backbone of data-intensive companies.

H **CIS 848A**   **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.

H **CIS 87A**   **Introduction to IT Project Management**   ☑ ☐ ☐

Rationale: The skills acquired from the course can help students

Technical Review Proposals for 09/21/21
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Courses

New Courses

			M N R	Discussion	Action

H **CIS 87B** **IT Project Management Framework** ☑ ☐ ☑

Rationale: The goal of this class is to increase diversity in the technical workforce by providing an education platform for entry-level Associate IT Project Managers focusing on context of Project Management and Information Technology. This program aims to develop quality and quantity of technical professionals to fulfill business needs and generate greater economic impact in the greater Inland Empire region. Students will gain soft and technical skills necessary to become entry-level project management jobs, including IT project managers, project coordinators, project specialists, and assistant project managers. Employment for the Project Management is expected to increase 31% between 2017 and 2027 or 8.8 million nationwide job openings will be available over the ten-year time frame. Over the last 12 months in the Inland Empire/Desert Region, there were 2,198 job postings for project managers and 576 combined job postings for project coordinators, project specialists, and assistant project managers.

H **DFT 31** **Advanced Computer Aided Drafting (CAD)** ☐ ☑ ☐

Rationale: A new course part of Essential CAD certificate. This course can be offered fully online or Hybrid.

Discussion: Repeatability, entrance skills. Rationale also discusses DE, but there does not appear to be a DE proposal.

H **DFT 41** **Engineering Graphics** ☐ ☑ ☐

Rationale: Course required for mechanical engineering pathways students.Cross-listed to ENE-41 for the updated Drafting certificate/discipline.

Discussion: Appears to be crosslisted with ENE-41, but don't exactly match.

H **DFT 62** **Basic Fusion 360** ☐ ☑ ☐

Rationale: Emerging technology for makers. A part of "Essential Fusion 360" certificate.

H **DFT 63** **Advanced Fusion 360** ☐ ☑ ☐

Rationale: Emerging technology for makers. A part of "Essential Fusion 360" certificate.

Discussion: Methods of Instruction formatting needs cleaning up.

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Disciplines

New Disciplines | M N R | Discussion | Action

INT   **Industrial Automation**   ☑☐☐

Rationale: The goal of this program is to provide training to a diverse population of adult learners to support Adult Education and Community Initiatives and drive awareness of technical skills in the community to improve career outcomes. The program intends to improve diversity in the population of learners while positively build student interests in education options and promote career growth district wide. Students will gain industrial systems applications skills for improved marketability and employability for the workplace.

General Education

General Education Modifications | M N R | Discussion | Action

H   **CIS**   **GE D2 CIS 1A 5 14A 17A 18A 30A**   ☑☑☑   These courses are already listed on the itemized sheet. Unclear what the submission is for. Holding for clarification.

Rationale: Addition of the following courses to the RCCD General Education, Area D2: CIS-1A, 5, 14A, 17A, 18A, 30A.

H   **CSC**   **GE D2 5 7 8 17A 18A**   ☑☑☑

Rationale: Addition of the following courses to the RCCD General Education, Area D2: CSC-5, 7, 14A, 17A, 18A

Programs

New Programs | M N R | Discussion | Action

Certificate

H   **ARE**   **Essential 3D Tour**   ☐☑☐   Held for courses. Bryan will forward info on crosslisted courses.

Rationale: To provide short certificate for continuing education and professionals with program focus to job market.

Documents: **Narrative**

H   **ARE**   **Essential Revit**   ☐☑☐   Held for courses.

Rationale: To provide short certificate for continuing education and professionals with program focus to job market.

Documents: **Narrative**

Technical Review Proposals for 09/21/21
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Programs

New Programs   M N R   Discussion   Action

Certificate

H **CIS** **Data Analytics** ☑ ☐ ☐ Held for courses.

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**

H **DFT** **Essential CAD** ☐ ☑ ☐ Held for courses.

Rationale: To provide short certificate for continuing education and professionals with program focus to job market.

Documents: **Narrative**

H **DFT** **Essential Fusion 360** ☐ ☑ ☐ Held for courses.

Rationale: To provide short certificate for continuing education and professionals with program focus to job market.

Documents: **Narrative**

H **DFT** **Essential SolidWorks** ☐ ☑ ☐ Held for courses.

Rationale: To provide short certificate for continuing education and professionals with program focus to job market.

Documents: **Narrative**

Technical Review Proposals for 09/21/21
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Documents in the Programs section without an underline have not yet been received by the Tech Review Committee.

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Programs

New Programs   M N R   Discussion   Action

Degree

H   **CIS**   **Data Science**   ☑ ☐ ☐   Held for courses.

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**

Degree & Certificate

H   **HLS**   **Emergency Management and Homeland Security - Leadership**   ☑ ☐ ☐   Held for courses.

Rationale: The Emergency Management and Homeland Security - Leadership concentration prepares students to be leaders in homeland security and emergency management. The curriculum is designed to provide the learner with a foundation of technical and professional knowledge to meet local, state, and national safety responsibilities both in the public and private sectors preparing for, mitigating, responding to, and recovering from natural and manmade disasters. The concentration in Cyber Security is specifically designed to prepare Cyber Security Professionals to operate in the complex world of Emergency Management and Homeland Security.

Documents: **Narrative**   **LMI**   **Advisory Committee**   **Regional Consortium**

Program Modifications   M N R   Discussion   Action

Certificate

COS   **Cosmetology Instructor Training**   ☐ ☐ ☑

Rationale: Updating program to reflect unit value change of courses.

THE   **Musical Theatre**   ☐ ☐ ☑

Rationale: Course listing is being updated.

Technical Review Proposals for 09/21/21
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Programs

Program Modifications

		M N R	Discussion	Action

Degree & Certificate

AUB	**Automotive Technology - Automotive Trim and Upholstery**	☐ ☐ ☑		
Rationale:	Updating course offerings to remove WEL34, which was deleted from the College inventory.			

H **WEL**	**Welding Technology**	☐ ☐ ☑	Holding for department minutes.	
Rationale:	Rationale for the changes to the Welding Technology Certificate of Achievement and Degree is to ensure courses within the discipline are utilized concurrently with the courses in the individual smaller certificate patterns. These courses may be used as either required or elective courses within multiple Welding Certificate patterns. The two additional elective courses proposed in the Welding Technology Certificate/Degree pattern will simultaneously allow students to utilize the proposed courses in the smaller certificate options as well as giving them the skill to obtain employment and then continue taking courses to achieve the larger Welding Technology Certificate or Degree. We are also removing the WEL-34 class as it has been deleted.			

Technical Review Proposals for 09/21/21
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Riverside Community College District

Technical Review

Program Documentation for September 21, 2021

Program Outline

Title: Essential 3D Tour

☐ **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: 0201.00   CIP Code: 40901

Type of Program:
☐ Certificate of Achievement only   ☒ Locally approved certificate (8-units or less) only
☐ Associate Degree only   ☐ Certificate of Achievement <u>and</u> 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:
N/A

Rationale:
To provide short certificate for continuing education and professionals with program focus to job market.

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.

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 April 2021

1 | P a g e

RCCD | RIVERSIDE COMMUNITY COLLEGE DISTRICT
MORENO VALLEY COLLEGE | NORCO COLLEGE | RIVERSIDE CITY COLLEGE

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: ____ units

Course	Title	Units	Sequencing
ARE/CON-62	Blueprint Reading for Construction	3	Semester 1, Fall
ARE-63	3D Tour - VR, AR, MR and XR	3	Semester 2, Spring

Elective Courses: ____ units

Course	Title	Units	Sequencing
None			

Total Program Units: ____6____ units

Item 4. Master Planning
This certificate serve 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 field.

Item 5. Enrollment and Completer Projections
34 per semester

Item 6. Place of Program in Curriculum/Similar Programs
Currently we have Architectural Graphics and Construction certificate that students can use some of the units to transfer in continuing their education.

Item 7. Similar Programs at Other Colleges in Service Area
Only private companies provide the service. Community colleges have only Print reading aspect of this certificate

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 April 2021

2 | P a g e

Item 8. Transfer Preparation Information (if applicable)

Upon completion students can continue their education in Construction or Architecture program.

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 April 2021

3 | P a g e

**Program Outline of Record –
Credit Degrees and Certificates**

Program Outline

Title: Essential Revit

☐ **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: 0201.00   CIP Code: 40901

Type of Program:
☐ Certificate of Achievement only   ☒ Locally approved certificate (8-units or less) only
☐ Associate Degree only   ☐ Certificate of Achievement <u>and</u> 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:
N/A

Rationale:
To provide short certificate for continuing education and professionals with program focus to job market.

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.

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 April 2021

1 | P a g e

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: _____ units

Course	Title	Units	Sequencing
ARE-24	Revit I-Architectural Drafting	3	Semester 1, Fall
ARE-25	Revit II-Advanced Architectural Drafting	3	Semester 2, Spring

Elective Courses: _____ units

Course	Title	Units	Sequencing
None			

Total Program Units: ___6___ units

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.

Item 5. Enrollment and Completer Projections
34 per semester

Item 6. Place of Program in Curriculum/Similar Programs
Currently we have Architectural Graphics certificate that students can use all these units to continuing their education.

Item 7. Similar Programs at Other Colleges in Service Area
Norco college already has these two courses as a part of a larger certificate, Architectural Graphics.
B.I.M. (Building Information Modeling) and CADD by Rio Hondo College

Item 8. Transfer Preparation Information (if applicable)

*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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Upon completion students can continue their education in Architecture program.

*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 April 2021

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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 <u>and</u> 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:
(<u>Please be specific</u>! 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 <u>cannot</u> appear on student transcripts and the college <u>cannot</u> 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

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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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	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

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

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: Essential CAD

☐ **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:　　0953.00　　　　**CIP Code: 151302**

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:
N/A

Rationale:
To provide short certificate for continuing education and professionals with program focus to job market.

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.

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 April 2021

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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: ____ units

Course	Title	Units	Sequencing
DFT-30	Computer Aided Design	3	Semester 1, Fall
DFT-31	Advanced Computer Aided Design	3	Semester 2, Spring

Elective Courses: ____ units

Course	Title	Units	Sequencing
None			

Total Program Units: ____6__ units

Item 4. Master Planning
 This certificate serve 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.

Item 5. Enrollment and Completer Projections
34 per semester

Item 6. Place of Program in Curriculum/Similar Programs
Currently we have 3D Mechanical certificate that students can use all these units to continuing their education.

Item 7. Similar Programs at Other Colleges in Service Area
Norco college already has these two courses as a part of a larger certificate, 3D Mechanical Certificate.

Item 8. Transfer Preparation Information (if applicable)

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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Upon completion students can continue their education in 3D Mechanical or Architectural Graphic programs.

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 April 2021

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Program Outline

Title: Essential Fusion 360

☐ **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: 0**953.00**   **CIP Code: 500404**

Type of Program:
☐ Certificate of Achievement only   ☒ Locally approved certificate (8-units or less) only
☐ Associate Degree only   ☐ Certificate of Achievement <u>and</u> 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:
N/A

Rationale:
To provide short certificate for continuing education and professionals with program focus to job market.

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.

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 April 2021

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RCCD | RIVERSIDE COMMUNITY COLLEGE DISTRICT
MORENO VALLEY COLLEGE | NORCO COLLEGE | RIVERSIDE CITY COLLEGE

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 student 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: _____ units

Course	Title	Units	Sequencing
DFT-62	Basic Fusion 360	3	Semester 1, Fall
DFT-63	Advanced Fusion 360	3	Semester 2, Spring

Elective Courses: _____ units

Course	Title	Units	Sequencing
None			

Total Program Units: ___6__ units

Item 4. Master Planning
This certificate serve 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.

Item 5. Enrollment and Completer Projections
34 per semester

Item 6. Place of Program in Curriculum/Similar Programs
Currently we have 3D Mechanical certificate that students use similar programs such as SolidWorks

Item 7. Similar Programs at Other Colleges in Service Area
SolidWorks that currently is offered in Norco College as a part of 3D Mechanical Drafting.

Item 8. Transfer Preparation Information (if applicable) N/A.

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 April 2021

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Program Outline of Record –
Credit Degrees and Certificates

Program Outline

Title: Essential SolidWorks

☐ **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: 0**953.00**   **CIP Code: 151302**

Type of Program:
☐ Certificate of Achievement only   ☒ Locally approved certificate (8-units or less) only
☐ Associate Degree only   ☐ Certificate of Achievement <u>and</u> 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:
N/A

Rationale:
To provide short certificate for continuing education and professionals with program focus to job market.

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
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: ____ units

Course	Title	Units	Sequencing
DFT-42	SolidWorks I	3	Semester 1, Fall
DFT-42B	SolidWorks II	3	Semester 2, Spring

Elective Courses: ____ units

Course	Title	Units	Sequencing
None			

Total Program Units: ____6__ units

Item 4. Master Planning
 This certificate serve 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.

Item 5. Enrollment and Completer Projections
34 per semester

Item 6. Place of Program in Curriculum/Similar Programs
Currently we have 3D Mechanical certificate that students can use all these units to continuing their education.

Item 7. Similar Programs at Other Colleges in Service Area
Norco college already has these two courses as a part of a larger certificate, 3D Mechanical Certificate.

Item 8. Transfer Preparation Information (if applicable)

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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Upon completion students can continue their education in 3D Mechanical program.

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 April 2021

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Program Outline

Title: Data Science

☒ **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 <u>and</u> 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:
(<u>Please be specific</u>! 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.

<u>**All Degrees and Certificates**</u>
☒ Discipline
☒ Department minutes showing approval
☒ Narrative *(see following page)*
☒ Transfer preparation documentation *(only if applicable)*

<u>**Degrees and Certificates of 8 Units or More with Vocational TOPs Codes**</u>
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 <u>cannot</u> appear on student transcripts and the college <u>cannot</u> 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

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	Introduction to Python Programming or	3	Semester 1

CSC-8	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
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 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	Systems 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	3	Double Counted Units	15
Total Minimum Degree Units	**67**	**Total Maximum Degree Units**	**67**

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-20B: 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.

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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Program Outline

Title: Emergency Management and Homeland Security - Leadership

☒ **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: 2105.30   **CIP Code:** 43.0301

Type of Program:
☐ Certificate of Achievement only   ☐ Locally approved certificate (8-units or less) only
☐ Associate Degree only   ☒ Certificate of Achievement <u>and</u> 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:
(<u>Please be specific</u>! Indicate any changes to title, description, learning outcomes, courses, unit values, etc.)

Rationale:
(Please note: This information will be presented to the Board of Trustees.)
The Emergency Management and Homeland Security - Leadership concentration prepares students to be leaders in homeland security and emergency management. The curriculum is designed to provide the learner with a foundation of technical and professional knowledge to meet local, state, and national safety responsibilities both in the public and private sectors preparing for, mitigating, responding to, and recovering from natural and manmade disasters. The concentration in Cyber Security is specifically designed to prepare Cyber Security Professionals to operate in the complex world of Emergency Management and Homeland Security.

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 (Emergency Management/Homeland Security is
☒ Department minutes showing approval   unique to Moreno Valley College.)
☒ 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.)*

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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☒ 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.

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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Program Narrative

Item 1. Program Goals and Objectives

For programs with a vocational TOPs code, must address a valid workforce preparation purpose. For programs with a non-vocational TOPs code, must address a valid workforce preparation, basic skills, civic education, or local purpose. May address transfer preparation if applicable.

Upon completion of this program, students will be able to:

1. Recognize the types of natural, manmade, and technological hazards that can negatively impact a community.

2. Compare and Contrast various forms of National and International Terrorism.

3. Distinguish the fundamental roles and responsibilities of the professional emergency manager.

4. Demonstrate skills necessary to prepare for, mitigate, respond to, and recover from manmade and natural disasters.

5. Demonstrate an understanding of the role of Ethical Leadership in the Homeland Security Enterprise.

Item 2. Catalog Description

Includes program requirements, prerequisite skills or enrollment limitations, program learning outcomes, and information relevant to program goal.

The Emergency Management and Homeland Security - Leadership concentration prepares students to be leaders in homeland security and emergency management. The curriculum is designed to provide the learner with a foundation of technical and professional knowledge to meet local, state, and national safety responsibilities both in the public and private sectors. The program emphasizes an All-Hazard approach to emergency planning and management, with courses in preparedness planning, risk mitigation, emergency response and disaster recovery. Students who successfully complete the program will gain entry-level employment in the fields of emergency management, homeland security, law enforcement, fire service, urban planning, security management, information security, business continuity, and other service-related occupations. The concentration in Cyber Security is specifically designed to prepare Cyber Security Professionals to operate in the complex world of Emergency Management and Homeland Security.

Upon completion of this program, students will be able to:

1. Recognize the types of natural, manmade, and technological hazards that can negatively impact a community.

2. Compare and Contrast various forms of National and International Terrorism.

3. Distinguish the fundamental roles and responsibilities of the professional emergency manager.

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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4. Demonstrate skills necessary to prepare for, mitigate, respond to, and recover from manmade and natural disasters.

5. Demonstrate an understanding of the role of Ethical Leadership professionals in the Homeland Security Enterprise.

Required Courses: __33_ units

Course	Title	Units	Sequencing
HLS-1	Introduction to Homeland Security and Terrorism	3	Semester 1, Fall
HLS-101	Introduction to Emergency Management	3	Semester 1, Fall
HLS-2	Preparedness for Emergencies, Disasters & Homeland Security Incidents	3	Semester 2, Spring
HLS-3	Response to Emergencies, Disasters & Homeland Security Incidents	3	Semester 2, Spring
HLS-4	Recovery in Emergencies, Disasters & Homeland Security Incidents	3	Semester 3, Fall
HLS-5	Investigation of Emergencies, Disasters & Homeland Security Incidents	3	Semester 3, Fall
HLS-6	Case Studies Emergencies, Disasters & Homeland Security Incidents	3	Semester 4, Spring
HLS-50	Developing a Personal Philosophy of Leadership and Ethics	3	Semesters 1, 2, 3, or 4
HLS-51	Leading others Ethically	3	Semesters 1, 2, 3, or 4
HLS-52	Ethical Leadership in Organizations	3	Semesters 1, 2, 3, or 4
HLS-53	Ethics and the Challenge of Leadership	3	Semesters 1, 2, 3, or 4

Total Program Units: __33_ units

The **Associate of Science Degree in Emergency Management and Homeland Security - Leadership concentration** will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

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: __33_ units

Course	Title	Units	Sequencing
HLS-1	Introduction to Homeland Security and Terrorism	3	Semester 1, Fall
HLS-101	Introduction to Emergency Management	3	Semester 1, Fall

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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HLS-2	Preparedness for Emergencies, Disasters & Homeland Security Incidents	3	Semester 2, Spring
HLS-3	Response to Emergencies, Disasters & Homeland Security Incidents	3	Semester 2, Spring
HLS-4	Recovery in Emergencies, Disasters & Homeland Security Incidents	3	Semester 3, Fall
HLS-5	Investigation of Emergencies, Disasters & Homeland Security Incidents	3	Semester 3, Fall
HLS-6	Case Studies Emergencies, Disasters & Homeland Security Incidents	3	Semester 4, Spring
HLS-50	Developing a Personal Philosophy of Leadership and Ethics	3	Semesters 1, 2, 3, or 4
HLS-51	Leading others Ethically	3	Semesters 1, 2, 3, or 4
HLS-52	Ethical Leadership in Organizations	3	Semesters 1, 2, 3, or 4
HLS-53	Ethics and the Challenge of Leadership	3	Semesters 1, 2, 3, or 4

Total Program Units: __33__ units

The **Associate of Science Degree in Emergency Management and Homeland Security - Leadership** concentration 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	33	Maximum Required Units	33
Minimum Elective Units	0	Maximum Elective Units	0
Local GE Required Units	27	CSUGE Required Units	39
Double Counted Units	0	Double Counted Units	0
Total Minimum Degree Units	**60**	**Total Maximum Degree Units**	**72**

Item 4. Master Planning
Must address how the certificate/degree fits in the mission, curriculum, and master planning of the college and higher education in California.

This associate degree program aims to 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 Emergency Management and Homeland Security. The growth of the program will also address to need to increase special populations in Emergency Management and Homeland Security, such as potentially increasing the population of female, Hispanic, African American students and professionals. 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
Projection of number of students to earn certificate/degree annually.

*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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It is projected that 25 students will complete this certificate annually, with a 2-3% increase annually.

Item 6. Place of Program in Curriculum/Similar Programs
Must address how the certificate/degree fits in college's existing inventory.

All of the classes necessary are currently in the college inventory. This will allow for another pathway for our students to earn a degree and/or certificate.

Item 7. Similar Programs at Other Colleges in Service Area
Justification of need for certificate/degree in the region.

No Colleges in the Inland Region offer similar programs. The following colleges offer Degrees/Certificates in Homeland Security or Emergency Management:
Cerritos
Citrus
Coastline
Grossmont
Palomar
Cypress
Rio Hondo

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 April 2021

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RCCD | RIVERSIDE COMMUNITY COLLEGE DISTRICT
MORENO VALLEY COLLEGE | NORCO COLLEGE | RIVERSIDE CITY COLLEGE

**Record –
Credit Degrees and Certificates**

Program Outline

Title: COSMETOLOGY INSTRUCTOR TRAINING

☐ **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: 300700   **CIP Code: 120401**

Type of Program:
☒ Certificate of Achievement only   ☐ Locally approved certificate (8-units or less) only
☐ Associate Degree only   ☐ Certificate of Achievement <u>and</u> 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:
(<u>Please be specific</u>! Indicate any changes to title, description, learning outcomes, courses, unit values, etc.)
Courses had an increase in unit values, program is being updated to reflect change.

Rationale:
(Please note: This information will be presented to the Board of Trustees.)
Courses had an increase in unit values, program is being updated to reflect change.

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.

<u>All Degrees and Certificates</u>
☐ Evidence of district-wide discipline communication
☒ Department minutes showing approval
☐ Narrative *(see following page)*
☐ Transfer preparation documentation *(only if applicable)*

<u>Degrees and Certificates of 8 Units or More with Vocational TOPs Codes</u>
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.)*

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 April 2021

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☒ 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
Upon successful completion of this program, students should be able to:
- Create and demonstrate lesson planning, oral presentations, use methods of evaluations, test construction and use of audio/visual aids.
- Synthesize information and apply principles to solve instructional and classroom issues.
- Construct exams using multiple choice, true or false, identification, matching, essay, research and performance methods and identify the methodology of each test mechanism.
- Demonstrate methodology required for student success used in the classroom environment.

Item 2. Catalog Description
Includes program requirements, prerequisite skills or enrollment limitations, program learning outcomes, and information relevant to program goal.

Need catalog description:
Cosmetology instructor pedagogy, California Board of Barbering and Cosmetology Act and Regulations, and the practice of Cosmetology instructor principles. Theory subjects include: basic learning styles and principles, learning environments and teaching plans. Laboratory practices include: oral presentations, audio and visual aids, classroom observations, classroom presentations and assessment observations.

Program Learning Outcomes:
Upon successful completion of this program, students should be able to:
- Create and demonstrate lesson planning, oral presentations, use methods of evaluations, test construction and use of audio/visual aids.
- Synthesize information and apply principles to solve instructional and classroom issues.
- Construct exams using multiple choice, true or false, identification, matching, essay, research and performance methods and identify the methodology of each test mechanism.
- Demonstrate methodologies required for student success used in the classroom environment.

Required Courses:
COS 61A Level I Cosmetology Instructor Concepts 9.5 units
COS 61B Level II Cosmetology Instructor Concepts 9.5 units

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 April 2021

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Requisite:
The Cosmetology Instructor Training Certificate will be awarded only to holders of Cosmetology licenses issued by the State of California.

Relevant information:
This Program Pathway will allow a full-time student to complete this program in 12 months. Students attending part time may take longer to complete. Course offered by terms are subject to change.

Upon successful completion of this program, students should be able to:
- Create and demonstrate lesson planning, oral presentations, use methods of evaluations, test construction and use of audio/visual aids.
- Synthesize information and apply principles to solve instructional and classroom issues.
- Construct exams using multiple choice, true or false, identification, matching, essay, research and performance methods and identify the methodology of each test mechanism.
- Demonstrate methodology required for student success used in the classroom environment.

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: __19__ units

Course	Title	Units	Sequencing
COS-61A	Level I Cosmetology Instructor Concepts	9.5	Semester 1, Fall
COS-61B	Level I Cosmetology Instructor Concepts	9.5	Semester 2, Spring

Elective Courses: __0__ units

Course	Title	Units	Sequencing

Total Program Units: __19__ units

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 April 2021

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Item 4. Master Planning

Must address how the certificate/degree fits in the mission, curriculum, and master planning of the college and higher education in California.

The Instructor Training program prepares students for the employment of postsecondary cosmetology instruction. Typically, community college instructors require more education and work experience than private training providers. The typical combination of work experience for community colleges is a bachelor's degree and between two and five years of relevant work experience or an associate degree and six years of relevant work experience.

Work Experience Requirements: More than half (21) of the job ads for cosmetology instructors included a minimum work experience required figure. Of the ads with a work experience requirement, 85% are looking for candidates with three or more years of experience.
Years of Work Experience Required Job Ads
0 to 2 years 14%
3 to 5 years 43%
6 to 8 years 43%

Certifications: Only 21 of the 39 job ads for cosmetology instructors included a required certification. A valid California cosmetology license was the most frequently requested certification over the past twelve months. Job ads with this certification requirement typically were seeking candidates with a low level of education and combined work experience, when compared to community college requirements. Many of the community college job advertisements did not include required certifications as they primarily focused on education and work experience as a way to gauge job competency.

Advertised Earnings: The average real-time salary is $56,000 and the median real-time salary is $44,000. This information should be viewed with caution as it only represents 49% of job postings.

Item 5. Enrollment and Completer Projections

Projection of number of students to earn certificate/degree annually.
Potential number of completers annually 60-80 completers.

Item 6. Place of Program in Curriculum/Similar Programs

Must address how the certificate/degree fits in college's existing inventory.
The courses offered with this Instructor Training program could be post cosmetology education. Upon the completion of the cosmetology program, students could enroll in Instructor Training Program.

Item 7. Similar Programs at Other Colleges in Service Area

Justification of need for certificate/degree in the region.
Few community colleges offer an Instructor Training Program, Fullerton College offers an Instructor Training program.

Item 8. Transfer Preparation Information (if applicable)

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 April 2021

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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 April 2021

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RCCD | RIVERSIDE COMMUNITY COLLEGE DISTRICT
MORENO VALLEY COLLEGE | NORCO COLLEGE | RIVERSIDE CITY COLLEGE

Program Outline

Title: Musical Theatre

☐ **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: 1007.00   **CIP Code: 50.0501**

Type of Program:
☒ Certificate of Achievement only   ☐ Locally approved certificate (8-units or less) only
☐ Associate Degree only   ☐ Certificate of Achievement <u>and</u> 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:
(<u>Please be specific</u>! Indicate any changes to title, description, learning outcomes, courses, unit values, etc.)
Removing DAN D30, DAN D20. DAN-D45, Adding MUS 3

Rationale:
(Please note: This information will be presented to the Board of Trustees.)
Program is being updated to remove course that are no longer in the inventory. Adding an additional music course option.

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.)*

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 April 2021

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☐ 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.

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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Program Narrative

Item 1. Program Goals and Objectives

The Musical Theatre Program is a dynamic training experience for students who seek a professional career in Musical Theatre. The curriculum is fundamentally craft-based, offering rich and intensive courses in singing, acting, music, and dancing. We also have a commitment to bringing in guest artists and other visiting professionals to complement our existing curriculum. Our comprehensive course of study requires that students who successfully complete the program must be motivated, committed, hard-workers, as well as gifted. Students must demonstrate continued progress and development and pass ongoing faculty evaluations in order to remain in the program. Performance opportunities include Performance Riverside, a semi-professional theatre located on the campus of Riverside City College, which is home to a season of three productions each year, and, our flexible black box space which produces 1-2 productions each year.

Item 2. Catalog Description

The Musical Theatre Program is a dynamic training experience for students who seek a professional career in Musical Theatre. The curriculum is fundamentally craft-based, offering rich and intensive courses in singing, acting, music, and dancing. We also have a commitment to bringing in guest artists and other visiting professionals to complement our existing curriculum. Our comprehensive course of study requires that students who successfully complete the program must be motivated, committed, hard-workers, as well as gifted. Students must demonstrate continued progress and development and pass ongoing faculty evaluations in order to remain in the program. Performance opportunities include Performance Riverside, a semi-professional theatre located on the campus of Riverside City College, which is home to a season of three productions each year, and, our flexible black box space which produces 1-2 productions each year.

PROGRAM LEARNING OUTCOMES
Upon successful completion of this program, students should be able to:
- Perform and/or design material appropriate to their area of emphasis as individuals in productions.
- Demonstrate identify and work conceptually with all elements and styles of theatre.
- Experience the process of audition, rehearsal, design and performance through various forms of theatrical literature.

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: __17-20__ units

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 April 2021

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Musical Theatre (9 units)

Course	Title	Units	Sequencing
THE-37	Musical Theatre Techniques	3	Term 1
THE-55	Beginning Musical Theatre I	3	Term 1
THE-56	Beginning Musical Theatre II	3	Term 2
THE-57	Intermediate Musical Theatre I	3	Term 1 or 3
THE-58	Intermediate Musical Theatre II	3	Term 2 or 4

Musical Theatre Practicum (3 units)

Course	Title	Units	Sequencing
THE-5	Theater Practicum	3	Term 1
THE-6	Advanced Theater Practicum	3	Term 1 or 2

Dance Technique (3 units)

Course	Title	Units	Sequencing
DAN-D60	Musical Theatre Dance	1	Term 1
DAN-D21	Ballet, Beginning	1	Any term
DAN-D22	Ballet, Intermediate	1	Any term
DAN-D23	Ballet, Advanced	1	Any term
DAN-D43	Tap, Beginning	1	Any term
DAN-D44	Tap, Intermediate	1	Any term

Music (1-4 units)

Course	Title	Units	Sequencing
MUS-3	Fundamentals of Music	4	Any term
MUS-32A	Class Piano I	1	Term 1 if selected
MUS-32B	Class Piano II	1	Term 2 if selected
MUS-32C	Class Piano III	1	Term 3 if selected
MUS-32D	Class Piano IV	1	Term 4 if selected

Applied Music (2 units)

Course	Title	Units	Sequencing
MUS-38	Beginning Applied Music, I	2	Term 2
MUS-78	Beginning Applied Music II	2	Term 2 or 3

Total Program Units: __17-20__ units

Item 4. Master Planning

As a community college preparing students for BFA programs in Musical Theatre as a Discipline (along with the integration of Performance Riverside, our Discipline Musical Theatre Summer Conservatory, and multiple area productions and theme parks presenting musical theatre) it is

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 April 2021

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imperative we explore a certificate not only to go along with the ADT but to prepare students for work in the industry.

Item 5. Enrollment and Completer Projections
It is estimated that 15-20 students will complete this program annually.

Item 6. Place of Program in Curriculum/Similar Programs
This certificate is already in the Theatre Program.

Item 7. Similar Programs at Other Colleges in Service Area
None

Item 8. Transfer Preparation Information (if applicable)
N/A

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 April 2021

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Program Outline of Record – Credit Degrees and Certificates

Program Outline

Title: Automotive Technology – Automotive Trim and Upholstery

☐ **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: 0949.10   **CIP Code:** 48.0303

Type of Program:
☐ Certificate of Achievement only   ☐ Locally approved certificate (8-units or less) only
☐ Associate Degree only   ☒ Certificate of Achievement <u>and</u> 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:
(<u>Please be specific</u>! Indicate any changes to title, description, learning outcomes, courses, unit values, etc.)
Removing WEL-34

Rationale:
(Please note: This information will be presented to the Board of Trustees.)
Removing WEL-34

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.)*

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 April 2021

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☐ 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.

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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Program Narrative

Item 1. Program Goals and Objectives
This program prepares individuals to apply technical knowledge and skills to install springs, filling, padding, covering, and finishing (trim) on automobile related products.

Item 2. Catalog Description
This program prepares individuals to apply technical knowledge and skills to install springs, filling, padding, covering, and finishing (trim) on automobile related products.

Program Learning Outcomes
Upon successful completion of this program, students should be able to:
- Demonstrate their proficiency by the use of upholstery tools and techniques while removing, striping, reupholstering, and reinstalling an automotive seat or bench.
- Calculate the adequate amount of material and time required to reupholster an automotive seat or bench.

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: __16__ units

Course	Title	Units	Sequencing
AUB50	Introduction to Automotive Collision Repair	4	YR 1, Fall
AUB51	Automotive Non-Structural Collision Repair and Estimating	4	YR 1, Fall
AUB60	Automotive Trim and Upholstery I	4	YR 1, Fall
AUB61	Automotive Trim and Upholstery II	4	YR 1, Spring

Elective Courses: ___4_ units

Course	Title	Units	Sequencing
AUB53	Automotive Collision Repair Special Projects	4	YR 1, Spring
AUB59A	Automotive Collision Service and Repair	2	YR 1, Fall
AUB59B	Automotive Refinishing Service and Repair	2	YR 1, Spring

Total Program Units: __20__ units

The Associate of Science Degree in Automotive Technology - Automotive Trim and Upholstery will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

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 April 2021

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Minimum Degree Requirements		Maximum Degree Requirements	
Minimum Required Units	16	Maximum Required Units	16
Minimum Elective Units	4	Maximum Required Units	4
Local GE Required Units	27	CSUGE Required Units	39
Double Count Units	0	Double Count Units	0
Total Minimum Degree Units	60	Total Maximum Degree Units	60

Item 4. Master Planning
The Automotive Trim and Upholstery Degree and Certificate align with the College Mission statement by providing technical training and career preparation for students to enter the automotive industry.

Item 5. Enrollment and Completer Projections
It is projected that 25 students will complete the program annually.

Item 6. Place of Program in Curriculum/Similar Programs
This program is currently a part of the Automotive Program in the Applied Technology Department.

Item 7. Similar Programs at Other Colleges in Service Area
San Bernardino Valley College, Mt. San Jacinto College.

Item 8. Transfer Preparation Information (if applicable)
n/a
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 April 2021

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RCCD | RIVERSIDE COMMUNITY COLLEGE DISTRICT
MORENO VALLEY COLLEGE | NORCO COLLEGE | RIVERSIDE CITY COLLEGE

**Record –
Credit Degrees and Certificates**

Program Outline

Title: Welding Technology

☐ **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: 0956.50   **CIP Code: 48.0506**

Type of Program:
☐ Certificate of Achievement only   ☐ Associate's Degree only   ☒ Certificate <u>and</u> 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:
(<u>Please be specific</u>! Indicate any changes to title, description, learning outcomes, courses, unit values, etc.)

Adding the following elective classes, a 2-unit Pipe Fitting for the trades class and a 2-unit Pipe Layout class.
Title will remain the same.
Learning out comes stay the same.
The total unit value stays the same.
These are additional electives that are also tied to the Pipe Welding certificate.
Removal of the WEL-34 as it has been officially deleted and is no longer taught.

Rationale:
(Please note: This information will be presented to the Board of Trustees.)
Rationale for the changes to the Welding Technology Certificate of Achievement and Degree is to ensure courses within the discipline are utilized concurrently with the courses in the individual smaller certificate patterns. These courses may be used as either required or elective courses within multiple Welding Certificate patterns. The two additional elective courses proposed in the Welding Technology Certificate/Degree pattern will simultaneously allow students to utilize the proposed courses in the smaller certificate options as well as giving them the skill to obtain employment and then continue taking courses to achieve the larger Welding Technology Certificate or Degree. We are also removing the WEL-34 class as it has been deleted.

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 and Department minutes showing approval

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.

RCCD | RIVERSIDE COMMUNITY COLLEGE DISTRICT
MORENO VALLEY COLLEGE | NORCO COLLEGE | RIVERSIDE CITY COLLEGE

**Record –
Credit Degrees and Certificates**

☐ 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 modifications)*
☐ 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.

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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**Record –
Credit Degrees and Certificates**

Program Narrative

Item 1. Program Goals and Objectives

Mission of Riverside City College: Riverside City College provides a high-quality affordable education and engages with a diverse community of learners by offering pre-college, transferable, and career-technical courses leading to locally-approved and state-approved certificates, associate degrees, associate degrees for transfer, and transfer. Based on a learner-centered philosophy, the College fosters critical thinking; develops information competency and technological literacy; expands communication skills, and promotes self-development and global awareness. To encourage student success, the College provides comprehensive learning and student support services; co-curricular activities; and community and Arts programs. RCC supports and empowers students as they work toward individual achievement, intellectual curiosity, and life-long learning.

This Welding Technology certificate/degree is being modified to include pipe Fitting and Layout knowledge for the welding student. These additional skills allows the student to better understand the methods and rational for the installation of piping that is constructed by the use of GMAW and SMAW. By adding these components, the student will more suited for multiple roles in the welding industry.

The added electives are currently required classes for the Pipe certificate and offer the student to flexibility to use the classes toward their AS degree in Welding. By making this modification we will better serve local business and the community, which aligns with the mission of the college.

Item 2. Catalog Description

This program prepares individuals to apply technical knowledge and skills for joining and cutting metallic materials. This includes instruction in SMAW, FCAW, GMAW, GTAW welding processes; oxyacetylene and plasma cutting of ferrous and non-ferrous materials. Includes, welding metallurgy, structural welding safety, blueprint reading, and applicable codes and standards. These skills prepare students for the following careers: iron worker trade, pipe welding trade, steel worker trade, construction trades, aerospace industry, pile driver trades, and glazing trades

- Display the ability to work safely within the welding industry
- Obtain skills necessary to obtain an entry-level job within the welding/construction industry.
- Demonstrate knowledge of SMAW, FCAW, GMAW, and GTAW welding processes.
- Obtain skills necessary to properly set up equipment used in the various welding processes.
- Obtain skills needed to pass AWS skills test to become a certified welder

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: __23__ units

Course	Title	Units	Sequencing
WEL-20	Blueprint Reading for Welders	2	Semester 2, Spring
WEL-65A	Beginning Shielded Metal Arc Welding (SMAW)	3	Semester 1, Fall
WEL-65B	Advanced Shielded Metal Arc Welding	3	Semester 1, Fall

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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WEL-75A	Gas Metal Arc Welding (GMAW)	3	Semester 1, Fall
WEL-75B	Flux Cored Arc Welding (FCAW)	3	Semester 1, Fall
WEL-85A	American Welding Society/Los Angeles City Welding I	3	Semester 3, Fall
WEL-95A	Introduction to Gas Tungsten Arc Welding	3	Semester 3, Fall
WEL-115A	SMAW/GMAW Pipe welding Fundamentals	3	Semester 2, Spring

Elective Courses: ___5__ units

Course	Title	Units	Sequencing
WEL-22	Plate and Structural Steel Layout	2	Semester 2, Spring
WEL-24	Pipe Fitting for the Trades	2	Semester 2, Fall
WEL-26	Pipe Layout	2	Semester 1, Spring
WEL-85B	American Welding Society/Los Angeles City Welding II	3	Semester 4, Spring
WEL-95B	Advanced Gas Tungsten Arc Welding	3	Semester 3, Fall
WEL-200	Welding Work Experience	1-4	

Total Program Units: ___28___ units

Minimum Degree Requirements		Maximum Degree Requirements	
Minimum Required Units	23	Maximum Required Units	23
Minimum Elective Units	5	Minimum Elective Units	5
Local GE Required Units	27	CSUGE Required Units	39
Double Counted Units	0	Double Counted Units	0
Total Minimum Degree Units	60	Total Maximum Degree Units	67

Item 4. Master Planning
Must address how the certificate/degree fits in the mission, curriculum, and master planning of the college and higher education in California.
Adding these additional elective courses allows the student to be more suited for multiple roles in the general welding/piping industry. By making this modification we will better serve local business and the community, which aligns with the mission of the college.

Item 5. Enrollment and Completer Projections

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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Projection of number of students to earn certificate/degree annually.
The projection is to have 10-15 completers annually to begin and a slow steady growth of that number as the program is discovered.

Item 6. Place of Program in Curriculum/Similar Programs
Must address how the certificate/degree fits in college's existing inventory.
Currently in the Welding Discipline.

Item 7. Similar Programs at Other Colleges in Service Area
Justification of need for certificate/degree in the region.
In our service area there are 3 other training facilities that teach welding. Two of these are for profit facilities, Universal Technical Institute (UTI) and Summit, that carry high costs associated with them and one is another community college, San Bernardino Valley College. In our service area RCC is the only college that currently has a pipe certificate program. While San Bernardino Valley College and one of the for-profit schools has 1-2 pipe welding classes they do not have pipe fitting or pipe layout classes.

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.

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