

# 2021-2022 Catalog Addendum

##

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## **Certificate & Degree Requirements**

### **REQUIREMENTS FOR AA AND AS DEGREES**

**AREA A - NATURAL SCIENCES (3 UNITS)**

*Change: BIOL 1 deleted effective fall 2021*

Biology 2, 5, 10, 10H, 10L, 11A, 11B, 13, 13L, 20, 22, 31

## **Transfer Information & Requirements**

**Revisions to CSU General Education Breadth**

**Effective Fall 2021**

**Revision:** The following courses have been approved for CSU-GE Breadth effective with the Fall 2021 semester. Unit and discipline requirements to Area D changed. Area F has been added.

### AREA B: SCIENTIFIC INQUIRY, PHYSICAL AND BIOLOGICAL SCIENCES

*Nine semester units minimum with at least one course each in B1, B2, and B4 (“C” or better grade required in B4). One course in B1 or B2 must contain a lab component indicated by (L) or be accompanied by a course in B3.*

AREA B.2: Life Science

*Change: BIOL 1 deleted effective fall 2021*

1. **Area B2: Life Science** Animal Science 1 Biology 2(L), 5(L), 10, 10H, 11A(L), 11B(L), 20(L), 22(L), 31(L)

### AREA C: ARTS, LITERATURE, PHILOSOPHY AND FOREIGN LANGUAGE

1. *Nine semester units minimum with at least one course each from C1 and C2.*

#### Area C2: Humanities

*Change***:** add PHIL 3B *effective fall 2020*

Philosophy 1, 1C, 1CH, 1D, 3A, 3B

### AREA D: SOCIAL, POLITICAL AND ECONOMIC INSTITUTIONS AND BEHAVIOR, HISTORICAL BACKGROUND

*Change: Changed from nine to six semester units minimum; removed “from at least two disciplines.”*

#### Area D0-D9: Social and Behavioral Sciences

*Change: HS 20 deleted effective fall 2021*

*Change: Area F, new area added effective fall 2021*

### **AREA F: ETHNIC STUDIES**

*Three semester units minimum*

*Special Note: Area F and changes in AREA D are effective fall 2021. These changes are required of students who begin enrollment in fall 2021 and who re-enroll in fall 2021 after losing catalog rights. Per Title 5’s definition of catalog rights, a student who begins and maintains continuous enrollment at the California Community College or California State University before fall 2021 will not be required to complete AREA F and may complete previous catalog CSUGE-Breadth requirements. At this time, Reedley College does not have courses approved for AREA F. Students can check*[*ASSIST.ORG*](http://www.assist.org/)*for other California Community Colleges that have courses approved for Area F.*

## University of California Transfer Course Agreement 2021-2022

*Change: new course approved for UCTCA effective fall 2021*

**African-American Studies (AFRAM) 1**

*Change: new courses approved for UCTCA effective fall 2021*

**American Indian Studies (AMIND) 31, 32**

*Change: new course approved for UCTCA effective fall 2021*

**Asian-American Studies (ASAMER) 15**

*Change: new courses approved for UCTCA effective fall 2021*

Biology (BIOL) 2, 5, 10, 10H, 10L, **13, 13L,** 11A, 11B, 20, 22, 31

*Change: new course approved for UCTCA effective fall 2021*

**Chicano-Latino Studies (CLS) 11**

*Change: new course approved for UCTCA effective fall 2021*

English (ENGL) 1A, 1AH, 1B, 1BH, 2, 2H, 3, 3H, 15A, 15B, 15E, 15F, **15J**, 36, 41, 43A, 43B, 44A, 44B, 46A, 46B, 47, 49

*Change: delete HS 20 effective fall 2021*

Human Services 20 deleted

*Change: new course approved for UCTCA effective fall 2021*

Kinesiology (KINES) 20, 22, **35**

*Change: new course approved for UCTCA effective fall 2021*

Natural Resources (NR) 4, 6, 7, **18**

*Change: new course approved for UCTCA effective fall 2021*

Philosophy (PHIL) 1, 1C, 1CH, 1D, 2, 3A, 3B, 4, 6, **7A**

**Intersegmental General Education Transfer Curriculum (IGETC) to CSU and UC 2021-2022**

### AREA 4: SOCIAL AND BEHAVIORAL SCIENCES

*At least three courses from at least two different disciplines (nine semester units minimum).*

*Change: delete HS 20 effective fall 2021*

Human Services 20 deleted

### AREA 5: PHYSICAL AND BIOLOGICAL SCIENCES

*At least two courses, one Physical Science and one Biological Science. One course must have a lab component (indicated by L), (seven-nine semester units minimum).*

5B: Biological Science

*Change: delete BIOL 1 (L) effective fall 2021*

Biology 2(L), 5(L), 10, 10H, 11A(L), 11B(L), 20(L), 22(L), 31(L)

## **PROGRAMS**

### **ASSOCIATE DEGREES FOR TRANSFER**

**ASSOCIATE DEGREE FOR TRANSFER REQUIREMENTS:**

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following: (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements. (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

A “P” (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

*Change: correct unit total effective fall 2021*

EARLY CHILDHOOD EDUCATION (MAJOR #R.5647.AS-T)

ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE

Majoring in Child Development prepares students for jobs in a variety of early care and education settings as well as in related fields working with children and families. The Associate in Science in Early Childhood Education for Transfer degree is designed for students who plan to complete a bachelor’s degree in a similar major at the CSU campus.

To obtain the Associate in Science Degree in Early Childhood Education for Transfer, students must complete the following: (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental GE Transfer Curriculum (IGETC) or the California State University GE-Breadth Requirements (CSU GE-Breadth).

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0. The law authorizing these degrees also requires that students must earn a “C” or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

ECE 1 Principles and Practices of Teaching Young Children 3

ECE 2 Child Growth and Development 3

ECE 3 Introduction to Curriculum 3.5

ECE 4 Child, Family, and Community 3

ECE 5 Observation and Assessment 3

ECE 6 Health, Safety and Nutrition in Early Childhood Education 3

ECE 7 Diversity and Culture in Early Care and Education Programs 3

ECE 8 Early Childhood Practicum 4

 Total Units **25.5**

*Advisor(s): Davidson, Marsh, Swallow*

*Change: new program effective fall 2021*

ENVIRONMENTAL SCIENCE (MAJOR #R.6510.AS-T)

ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE

This Associate in Science in Environmental Science for Transfer Degree is designed for students who plan to transfer to a CSU campus to major in environmental studies and who are interested in areas such as pollution abatement, water resources, ecosystem protection, restoration, or management. The degree provides students with the knowledge, lab experience, and critical thinking skills necessary to prepare them for advanced university studies. The Associate in Science in Environmental Science for Transfer Degree provides students with a major that fulfills the general requirements of the California State University for transfer.

**Program Learning Outcomes**

*Upon successful completion of this program the student will be able to:*

* Critically evaluate scientific information and examine its significance and impact on society and the environment.
* Demonstrate an understanding of the interdisciplinary nature of environmental issues.
* Apply knowledge of how human activities impact the physical and biological environments.

BIOL 11A Biology for Science Majors I 5

BIOL 11B Biology for Science Majors II 5

BIOL 13 Environmental Science 3

CHEM 1A General Chemistry 5

ECON 1B Principles of Microeconomics 3

GEOL 1 Physical Geology 4

MATH 5A Calculus I 5

Select one course 4

MATH 11 Introduction to Statistics 4

STAT 7 Elementary Statistics 4

Select one sequence 8

PHYS 2A General Physics I 4

PHYS 2B General Physics II 4

or

PHYS 4A Physics for Scientists and Engineers 4

PHYS 4B Physics for Scientists and Engineers 4

 Total Units 42

*It is recommended students complete the IGETC for STEM GE Pattern*

*Advisor(s): Smith Bush*

*Change: add ART-26 effective spring 2022*

STUDIO ARTS (MAJOR #R.5203.AA-T)

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

Students completing the Associate in Art in Studio Arts for Transfer Degree will have the basic skills in 2D and 3D composition, an introductory level knowledge of Art History and Digital Art Familiarity. They will be prepared for transfer into a Bachelors of Art or Bachelors of Fine Art programs within the California State University system. Students who successfully complete the Studio Arts Transfer Degree will be prepared to enter into multiple career paths within the visual communication fields including graphic design, architecture, web-based media, animation, fine arts and more.

**Program Learning Outcomes:**

*Upon completion of the Reedley College Associate in Arts Degree in Studio Arts for Transfer (AA-T in Studio Arts), a student will be able to:*

* Apply knowledge of the elements and principles of design to the description and/or production of artwork.
* Communicate effectively in one or more of the following ways: verbally, written and visually with emphasis on concepts of content and form.
* Understand the impact of the visual arts in a personal, cultural and global context.
* Apply knowledge of techniques and media through production and description of artwork.
* Evaluate and analyze the strengths and weaknesses of an artworks effectiveness to visually communicate.
* Solve visual problems through the artistic process.

Required Core 12

ART 3 Two-Dimensional Design 3

ART 4 Three-Dimensional Design 3

ART 7 Beginning Drawing 3

Select one course from:

ART 6 Art History 2

 or

ART 6H Honors Art History 2 3

List A 3

ART 5 Art History 1 3

ART 26 Survey of Non-Western Art 3

List B 9

ART 9 Beginning Painting: Oil and Acrylic 3

ART 10 Beginning Wheel Throwing 3

ART 13 Beginning Watercolor Painting 3

ART 17 Intermediate Drawing 3

ART 30A Illustrator: Beginning Computer Drawing and Design

 or

ART 37A Photoshop: Digital Visual Art 3

PHOTO 1 Basics of Digital Photography 3

Completion of CSU General Education or IGETC

CSU electives to reach 60 units total

 Total Units 60

### **ASSOCIATE DEGREE & CERTIFICATE PROGRAMS**

*Change: add ART-26 effective spring 2022*

ART: THREE-DIMENSIONAL (MAJOR #R.520B.AA)

ASSOCIATE IN ARTS DEGREE

Upon successful completion of this program students will have an introductory level knowledge of art history and be able to apply skills in 3D composition and ceramics. Students will have preparation for transfer into four-year art programs.

**Program Learning Outcomes:**

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

* Apply knowledge of the elements and principles of design to the description and/or production of artwork.
* Communicate effectively in one or more of the following ways: verbally, written and visually with emphasis on concepts of content and form.
* Understand the impact of the visual arts in a personal, cultural and global context.
* Apply knowledge of techniques and media through production and description of artwork.
* Evaluate and analyze the strengths and weaknesses of an artwork’s effectiveness to visually communicate.
* Solve visual problems through the artistic process.

Select from the following studio art courses 15

ART 4 Three-Dimensional Design 3

ART 7 Beginning Drawing 3

ART 10 Beginning Ceramics 3

Art 15 Ceramic Sculpture 3

ART 20 Intermediate Ceramics 3

ART 36A Intermediate Wheel Throwing 3

ART 38A Intermediate Hand-Building 3

ART 43 Independent Projects Studio 2-3

Select 6 units from the following 6

ART 2 Introduction to Visual Culture 3

ART 5 Art History 1 3

ART 6 Art History 2 3

 or

ART 6H Honors Art History 2 3

ART 26 Survey of Non-Western Art 3

FILM 1 Introduction to Film Studies 3

PHOTO 1 Basics of Digital Photography 3

 Total Units 21

*Advisor(s): Carrera, Hicks*

*Change: add ART-26 effective spring 2022*

ART: TWO-DIMENSIONAL (MAJOR #R.520A.AA)

ASSOCIATE IN ARTS DEGREE

AA Art Degree is designed to give students basic skills in 2D or 3D composition, an introductory level knowledge of art history and computer digital art familiarity. The primary focus is to prepare students for transfer into four-year art programs. Students completing the computer art program will be prepared for certain entry-level positions in the computer digital field.

**Program Learning Outcomes:**

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

* Apply knowledge of the elements and principles of design to the description and/or production of artwork.
* Communicate effectively in one or more of the following ways: verbally, written and visually with emphasis on concepts of content and form.
* Understand the impact of the visual arts in a personal, cultural and global context.
* Apply knowledge of techniques and media through production and description of artwork.
* Evaluate and analyze the strengths and weaknesses of an artwork’s effectiveness to visually communicate.
* Solve visual problems through the artistic process.

Select from the following studio art courses 12

ART 3 Two-Dimensional Design 3

ART 7 Beginning Drawing 3

ART 9 Beginning Painting: Oil and Acrylic 3

ART 13 Beginning Watercolor Painting 3

ART 17 Intermediate Drawing 3

ART 19 Intermediate Painting: Oil/Acrylic 3

ART 23 Intermediate Watercolor Painting 3

Select two courses from the following 6

ART 2 Introduction to Visual Culture 3

ART 5 Art History 1 3

ART 6 Art History 2

 or

ART 6H Honors Art History 2 3

ART 26 Survey of Non-Western Art 3

FILM 1 Introduction to Film Studies 3

PHOTO 1 Basics of Digital Photography 3

Select from the following computer courses 6

ART 30A Illustrator: Beginning Computer Drawing and Design 3

ART 30B Illustrator: Intermediate Computer Drawing and Design 3

ART 33 Introduction to Computer Art & Design 3

ART 37A Photoshop: Digital Visual Art 3

ART 37B Photoshop: Intermediate Digital Visual Art 3

ART 38 Painter: Computer Digital Imaging 3

 Total Units 24

*Advisor(s): Carrera, Hicks*

*Change: course units effective spring 2022*

DENTAL ASSISTING (MAJOR #4540.AS)

ASSOCIATE IN SCIENCE DEGREE

Students successfully completing this program will have a background in biodental sciences and practical training in dental infection control, chairside assisting, oral x-ray technology, coronal polish, dental sealants, licensed and unlicensed State of California Dental Assisting skills, and manipulation of dental materials. They will have the skills related to obtaining employment, resume writing and some business skills; related to insurance, scheduling and financials.

Additional Requirements:

* Completion of an American Heart Association or American Red Cross approved BLS Healthcare Providers course, and a physical clearance by a medical provider prior to participation in DA 101. Students admitted to the dental assisting program are expected to maintain a 2.0, “C” average in their dental assisting courses. Failure to maintain a 2.0, “C” average in DA courses will result in termination from the program. Students are required to purchase malpractice insurance, personal protection equipment, designated clinic attire, and a typodont. Immunization for Hepatitis B is recommended. Dental assisting courses cannot be taken while pregnant.
* 265 hours of supervised clinical training provides the student with an opportunity to refine his/her skills. Graduates of the RDA program have both the theory and practical skills to enter the job market and to qualify to sit for the Registered Dental Assistants Examination offered by the Dental Board of California. The Reedley College Dental Assisting Program, including coronal polish, dental sealant and oral radiology courses are approved by the Dental Board of California.

**Program Learning Outcomes**

*Upon successful completion of this program students will be able to:*

* Demonstrate skills needed to assist the dentist at chairside utilizing four-handed dentistry techniques in team concepts: infection control, instrumentation and maintaining the operating field. Students must pass clinical patients and a written examination at 75% or better for dental sealants and coronal polishing.
* Demonstrate skills and knowledge needed to expose, process, and evaluate diagnostic films and pass the State Radiology Examination at 75% or better.

DA 101 Dental Assisting 1 22

DA 102 Dental Assisting 2 10.5

DA 103 Dental Assisting 3 5

 Total Units 37.5

*Advisor(s): Parento, S. Sorensen*

*Change: course units effective spring 2022*

DENTAL ASSISTING (MAJOR #R.4540.CA)

CERTIFICATE OF ACHIEVEMENT

Students successfully completing this program will have the background in biodental sciences and practical training in dental office business procedures, chairside assisting, oral x-ray technology, coronal polish, and manipulation of dental materials

*Program Learning Outcomes:*

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

1. Demonstrate skills needed to assist the dentist at chairside utilizing four-handed dentistry techniques in team concepts: infection control, instrumentation and maintaining the operating field. Students must pass clinical patients and a written examination at 75% or better for dental sealants and coronal polishing.
2. Demonstrate skills and knowledge needed to expose, process, and evaluate diagnostic films and pass the State Radiology Examination at 75% or better.

DA 101 Dental Assisting 1 22

DA 102 Dental Assisting 2 10.5

DA 103 Dental Assisting 3 5

 Total Units 37.5

*Advisor(s): Parento, S. Sorensen*

*Change: add CSCI-40, outcomes effective spring 2022*

ENGINEERING

ASSOCIATE IN SCIENCE DEGREE

Students will be prepared for engineering internship opportunities or entry-level industrial jobs, with skills in such areas as computer drafting, solid modeling, engineering design, and problem solving. In addition, students will prepare for transfer into four-year engineering programs, learning the fundamentals of physics, chemistry and engineering.

*Program Learning Outcomes:*

* Apply knowledge of mathematics, science, and engineering fundamentals.
* Identify, formulate, and solve basic engineering problems.
* Apply mathematical models to real world situations.
* Make basic design decisions concerning appropriate level engineering problems.
* Communicate effectively, orally, in writing, and graphically.
* Understand the impact of engineering solutions in a global and societal context.
* Use the techniques, skills, and modern engineering tools necessary in engineering practice.

Required courses 12

PHYS 4A Physics for Scientists and Engineers 4

PHYS 4B Physics for Scientists and Engineers 4

PHYS 4C Physics for Scientists and Engineers 4

Select one course 4-5

CHEM 1A General Chemistry 5

CHEM 3A Introductory General Chemistry 4

Select one course 2

ENGR 10 Introduction to Engineering 2

INTDS 100 STEM Projects 2

INTDS 101 STEM Careers 2

INTDS 102 STEM Education 2

INTDS 103 Technological Advances in STEM 2

Select one course 3-4

CSCI 40 Programming Concepts and Methodology 1 4

ENGR 2 Engineering Graphics 4

ENGR 5 Programming and Problem Solving in MATLAB 3

ENGR 40 Programming for Scientists and Engineers 4

Select one course from ENGR 6, 8 or two courses from ENGR 4 and 4L 3-4

ENGR 6 Electric Circuit Analysis with Lab 4

ENGR 8 Statics 3

ENGR 4 Engineering Materials

and

ENGR 4L Engineering Materials Laboratory 4

 Total Units 24-27

*Advisor(s): Heathcote*

*Change: revised courses, units effective spring 2022*

CERTIFICATE IN ENTRY LEVEL MANAGEMENT

Students who complete the outlined course of study will be prepared for entry-level, first-line supervisory positions. They will have acquired the necessary skills, education, and classroom experience to understand basic management principles and be able to contribute these skills immediately to business firms.

**Program Learning Outcome**

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

Supervise and motivate coworkers to achieve company goals by utilizing planning techniques, organizational skills, motivational techniques, and healthy interpersonal communication.

BA-33 Human Relations in Business 3

BA-15 Introduction to Management 3

BA-38 Operation of a Small Business 3

 Total Units 9

*Change: course description, titles, program learning outcomes effective fall 2021*

**MATHEMATICS (MAJOR #R.6200.AS)**

**ASSOCIATE IN SCIENCE DEGREE**

The Associate in Science Degree in Mathematics prepares students for transfer into four-year mathematics programs. It also provides fundamental background for persons who plan to become systems analysts or computer programmers. Students must earn a “C” or better in all courses required for the degree.

***Program Learning Outcomes:***

*Upon successful completion of this program the student will be able to:*

* Communicate mathematical ideas using symbolic, graphical, numerical and written representations.
* Solve problems using mathematical reasoning.
* Use appropriate mathematical techniques to model and solve real-world problems.
* Use technology, when appropriate, to enhance mathematical understanding.

MATH-5A Calculus I 5

MATH-5B Calculus II 4

MATH-6 Calculus III 5

MATH-17 Differential Equations and Linear Algebra 5

Select one (1) from the following: 4

CSCI-40 Programming Concepts and Methodology I 4

ENGR-40 Programming for Scientists and Engineers 4

MATH-11 Introduction to Statistics 4

PHYS-2A General Physics I 4

PHYS-4A Physics for Scientists and Engineers 4

STAT-7 Elementary Statistics 4

Total Units 23

*Advisor(s) Casteel, Gilmore, Gong, Kehoe, Obeid, Perez, Tayar, Winter, R. Reimer, Zook*

*Change: add missing course IS 16 effective fall 2021*

*Change: add ECE 2 effective spring 2022*

SOCIAL SCIENCE

SOCIAL SCIENCE (MAJOR #R.7410.AA)

ASSOCIATE IN ARTS DEGREE

Students who complete the requirements for the Social Science Associate Degree will acquire a knowledge of human behavior, society, and institutions through the study of courses in Anthropology, Economics, Ethnic Studies, Geography, History, Political Science, Psychology, and Sociology. The Social Science program is well suited for the transfer student who completes his/her education at Reedley College.

*Program Learning Outcomes:*

1. Identify the main characteristics, concepts, ideas, and theories of at least four social science disciplines including: Anthropology, Geography, History, Political Science, Psychology, and Sociology.
2. Use Social Science concepts to analyze cultural, global, political, psychological, and social issues.

Choose 21 units from FOUR separate disciplines.

Choose from FOUR separate disciplines 21

ANTHRO 1 Biological Anthropology 3

ANTHRO 2 Cultural Anthropology 3

ANTHRO 3 Introduction to Archaeology and Prehistory 3

ECE 14 Lifespan Development

 or

PSY 38 Lifespan Development 3

ECON 1A Principles of Macroeconomics 3

ECON 1B Principles of Microeconomics 3

ETHNST 5 African People in the New World

 or

HIST 5 African People in the New World 3

ETHNST 32 History of the Mexican American People

 or

HIST 32 History of the Mexican American People 3

GEOG 6 World Regional Geography 3

HIST 1 Western Civilization to 1648 3

HIST 2 Western Civilization from 1648 3

HIST 5 African People in the New World

 or

ETHNST 5 African People in the New World 3

HIST 11 History of the United States to 1877 3

HIST 12 History of the United States since 1865

 or

HIST 12H Honors History of the United States since 1865 3

HIST 20 World History I, to 1600 3

HIST 22 History of American Women 3

HIST 32 History of the Mexican American People

 or

ETHNST 32 History of the Mexican American People 3

POLSCI 2 American Government

 or

POLSCI 2H Honors American Government 3

POLSCI 5 Comparative Government 3

POLSCI 110 American Institutions 3

PSY 2 General Psychology

 or

PSY 2H Honors General Psychology 3

PSY 5 Social Psychology 3

PSY 16 Abnormal Psychology 3

PSY 25 Human Sexuality 3

PSY 38 Lifespan Development

 or

ECE 14 Lifespan Development 3

SOC 1A Introduction to Sociology 3

SOC 1B Critical Thinking about Social Problems 3

SOC 2 American Minority Groups 3

SOC 11 Sociology of Gender 3

SOC 32 Courtship, Marriage, and Divorce: Family & Interpersonal Relationships 3

 Total Units 21

*Advisor(s):* F. Rodriguez, Tellalian, Terrell

*Change: corrected units effective fall 2021*

**WILDFIRE RESOURCES SUPERVISORS (MAJOR #R.1210.CA)**

CERTIFICATE OF ACHIEVEMENT

Upon successful completion of this program students will have been provided with the knowledge, training, and practical experiences to pursue an intermediate position in the field of wildland fire suppression. Emphasis is placed on industry specific skills (e.g. portable pump operation, chain saw use, engine operation, etc.) and specific supervisory skill sets necessary for well rounded job advancement in wildland fire.

**Program Learning Outcomes:**

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

* Apply leadership principals surrounding safety, operational engagement and risk management.
* Initiate and develop safe efficient wildland fire strategies, tactics, use of firefighting equipment and apply knowledge of fire behavior factors including fuels, topography and weather.
* Develop a subordinate firefighter’s progression through mentorship, effective supervision and leadership.
* Initiate and apply the effective use of the incident command structure to manage span of control and incident organization.

NR 19V Cooperative Work Experience – Forestry 3-8

**NR 150 Incident Command System 200 1**

NR 151 S-211 Portable Pumps and Water Use 1

NR 152 RT-130 Wildland Fire Topics - Safety Training 1.5

NR 153 S-131 Wildland Firefighter Type 1 .5

NR 154 S-219 Firing Operations 1

NR 155 S-212 Wildland Fire Chainsaws 1.5

NR 156 L-280 Followership to Leadership 1

**NR 157 S-230 Crew Boss (Single Resource) 1.5**

**Select one course**

NR 158 S-231 Engine Boss 1

NR 159 S-236 Heavy Equipment Boss 1

 **Total Units 13-18**

*New program effective fall 2021*

**WILDLAND FIRE SCIENCE (MAJOR #R.1400.AS)**

ASSOCIATE IN SCIENCE DEGREE

Students successfully completing the outlined course of study for the Wildland Fire Advancement Program will be prepared for workforce advancement as an advanced firefighter forestry technician or fuels reduction crewmember. Students will be able to apply and initiate wildland firefighting fundamentals, risk management, wildland fire behavior, human factors effecting human performance, chainsaw operations, hand tool use, prescribed fire and fuels reduction operations and federal physical readiness standards. Training will require arduous working conditions similar to those performed as a wildland firefighter. Upon completion of this program students will have the NWCG course work necessary for the competitive advancement to a permanent GS-5 senior fire fighter position in the Federal fire service. This academy will focus on principals of leadership, command and control, operational tactics and intermediate fire behavior. Students will be expected to operate in a physically demanding work place like environment where safety and skills are emphasized. Due to the requirements for federal and state employment both physical and other applicable prerequisites may be required.

*Program Learning Outcomes:*

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

* Apply the fundamental and intermediate wildland fire principals surrounding safety, operational engagement and risk management.
* Initiate and develop safe efficient line construction tactics and knowledge of fundamental fire behavior factors including fuels, topography and weather.
* Develop communication protocols by effectively utilizing programable radio systems, formalized briefings and other non-verbal methods.
* Initiate the use of the incident command structure to manage span of control and incident organization.
* Apply a working knowledge of the factors effecting human performance in high risk environments.
* Track and document appropriate use and maintenance of wildland fire hand tools and power tools.
* Utilize the fundamentals of prescribed fire and fuels reduction operations and the associated tactics and equipment.
* Proficiently utilize chainsaws to cut trees, brush and other vegetation for fire line construction and fuels management projects.

Required Courses

NR-1 Introduction to Forestry 3

NR-4 Forest Ecosystems 3

NR-5 Wildland Fire Technology 3

NR-8 Natural Resources Career Preparation 1

NR-19V Cooperative Work Experience – Forestry 7

NR-97 Wildland Fire School-Fundamentals 14

NR-133 Introduction to Chainsaw Operations 1

Select two courses 1

NR-108 Introduction to Forestry Field Studies .5

NR-109 Forestry Field Studies I .5

NR-110 Forestry Field Studies II .5

NR-115 Advanced Field Studies I .5

Select one course 9

NR-95 Integrated Fuels Management 9

NR-96 Wildland Fire School-Advancement 9

 Total Units 42

## **COURSES**

### **AFRICAN-AMERICAN STUDIES (AFRAM)**

*Change: description effective spring 2022*

1 INTRODUCTION TO AFRICAN AMERICAN STUDIES

**3 units, 3 lecture hours**

 ADVISORY: English 1A or 1AH.

 This course is a critical interdisciplinary study of African American culture history and heritage from Pre Colonial West Africa through the 21st Century. This course will include an introduction to West African societies of the 15th and 16th centuries, prior to European Colonial Expansion; an examination of the transition into the era of African enslavement in Colonial America; an exploration of African American cultural development during the era of Reconstruction; an evaluation of African American political movements in response to social injustice and African American creative production; an analysis of the assimilation of African American culture into mainstream American culture during the 20th century; and finally, to examine and evaluate the African American community of the 21st Century.(A, CSU, UC)

### **AGRICULTURE (AG)**

*New course effective fall 2021*

313 FUNDAMENTALS OF THE FRESH FRUIT INDUSTRY

0 units, 12 lecture hours

ADVISORIES: English 1A or 1AH.

This course provides an overview of important functions of field, processing, and packing in the local fresh fruit industry including economics of Farming, Irrigation, Growing, Planting, Harvesting, Varietals, rootstocks, Field Labor management, Production, supply chain, retail supply chain, import export laws and production and inventory management.

*New course effective fall 2021*

314 EMERGING TECHNOLOGIES IN AGRICULTURE

0 units, 12 lecture hours

ADVISORIES: English 1A or 1AH.

This course provides an overview of emerging technology in the agriculture industry, specifically in tree fruit, citrus, and vineyard production. Topics including automation in the field and packing facility, as well as biotechnology in agriculture and an overview of programmable logic controllers (PLCs).

### **AMERICAN INDIAN STUDIES (AMIND)**

*Change: description effective spring 2022*

31 AMERICAN INDIAN CULTURE

**3 units, 3 lecture hours**

 ADVISORY: English 1A or 1AH.

 The Native Nations of North American (American Indians) from antiquity to the present. An interdisciplinary approach to examining pre- and post settler-colonial American Indian societies and cultures. Studying the effects of invasion and colonization with an emphasis on self-preservation and maintaining tribal sovereignty. This course analyzes the racialization of American Indians, eurocentrism, relationship to place, forced assimilation, intergenerational trauma, Indigenous cosmology and ceremony, social justice, and self-determination. (A, CSU)

### **ASIAN-AMERICAN STUDIES (ASAMER)**

*Change: description effective spring 2022*

15 INTRODUCTION TO ASIAN-AMERICANS

**3 units, 3 lecture hours**

 ADVISORY: English 1A or 1AH.

 This course covers historical and cultural background of major Asian groups that have immigrated into the United States; including Chinese, Japanese, Filipinos, and Southeast Asians. It also examines cultural identity, assimilation, interracial relationships, family influences, discrimination, and generational conflict. (A, CSU, UC)

### **CHICANO-LATINO STUDIES (CLS)**

*Change: description effective spring 2022*

11 INTRODUCTION TO CHICANO-LATINO STUDIES

**3 units, 3 lecture hours**

 ADVISORY: English 1A or 1AH.

 The introductory course explores the Chicano/a/x and Mexican American community, culture(s)and heritage(s) in American society from an interdisciplinary approach. Focus on sociocultural challenges, struggles, and social justice movements that define the Chicano/a/x experience. Examination of the ancestral roots, dynamic migration/immigration trends, conflict, racialization processes, liberation struggles, socialization process, and sociopolitical patterns from ancient Indigenous civilizations of Mesoamerica to the present. Overview of trends and patterns in Latino/a/x populations at-large will also be explored. (A, CSU, UC)

### **DENTAL ASSISTING (DA)**

*Change: units, hours effective spring 2022*

102 DENTAL ASSISTING 2

10.5 units, 7.8 lecture hours, 8.4 lab hours

LIMITATION ON ENROLLMENT: DA 102 may not be taken during pregnancy. PREREQUISITES: Dental Assisting 101.

 This course provides the student with theory and skills necessary to apply for the written examination administrated by the Dental Board of California; i.e., intra oral radiology, medical/ dental emergencies, drugs used in dentistry, coronal polish, sealants. (A)

*Change: units, hours, catalog description effective spring 2022*

103 DENTAL ASSISTING 3

 5 units, .22 lecture hours, 14.8 lab hours

 PREREQUISITES: Dental Assisting 101 and 102.

 The course requires 265 hours extramural clinical experience in a selected dental office/clinic with faculty supervision to develop student competencies in Registered dental assisting and unlicensed dental assisting procedures. The training will consist of 4 hours of lecture which is held at the Reedley College campus. (A)

### **ENGLISH AS A SECOND LANUAGE (ESL)**

*New course effective spring 2022*

311A HIGH-BEGINNING ESL 1

0 units, 1.5 lecture hours, pass/no pass only

ADVISORY: Placement through a multiple-measure process.

ESL-311A is the first in a series of ESL classes for students who want develop English languages kills and vocabulary at the high-beginning level. Students learn by listening to and speaking about familiar and workplace topics, and expressing ideas in writing.

*New course effective spring 2022*

311B HIGH-BEGINNING ESL 2

0 units, 1.5 lecture hours, pass/no pass only

ADVISORIES: Placement through a multiple-measure process.

ESL-311B is the second in a series of ESL classes for students who want develop English language skills and vocabulary at the high-beginning level. Students learn by listening to and speaking about familiar and workplace topics, and expressing ideas in writing.

*New course effective spring 2022*

311C HIGH-BEGINNING ESL 3

0 units, 1.5 lecture hours, pass/no pass only

ADVISORIES: Placement through a multiple-measure process.

ESL-311C is the third in a series of ESL classes for students who want develop English languages kills and vocabulary at the high-beginning level. Students learn by listening to and speaking about familiar and workplace topics, and expressing ideas in writing.

*New course effective spring 2022*

311D HIGH-BEGINNING ESL 4

0 units, 1.5 lecture hours, pass/no pass only

ADVISORIES: Placement through a multiple-measure process.

ESL-311D is the fourth in a series of ESL classes for students who want develop English language skills and vocabulary at the high-beginning level. Students learn by listening to and speaking about familiar and workplace topics, and expressing ideas in writing.

### **MATHEMATICS (MATH)**

***Change: approved for c-id effective fall 2020***

21 FINITE MATHEMATICS

**3 units, 3 lecture hours**

PREREQUISITES: Math 103 or equivalent. ADVISORIES: English 1A or 1AH.

This course is an introduction to linear functions, systems of linear equations and inequalities, matrices, linear programming, mathematics of finance, sets, Venn diagrams, combinatorial techniques and an introduction to probability. Topics include applications in business, economics and social sciences. (A, CSU-GE, UC, I) (C-ID MATH 130)

### **NATURAL RESOURCES (NR)**

*Change: description effective spring 2022*

1 INTRODUCTION TO FORESTRY

 **3 units, 2 lecture hours, 3 lab hours**

ADVISORIES: English 1A or 1AH.

This course is an overview of natural resources management and technician skills. It is intended for those who wish to work as a technician for natural resource entities such as the U.S. Forest Service. History of resources management, governmental and private land management entity structure, basic hand tool identification and use, map reading, forest health, personal safety and first aid, and forest measurements will be included. Field trips may be required. (A, CSU)

*Change: remove repeats effective spring 2022*

31 ANIMAL PACKING

**2 units, 1 lecture hour, 3 lab hours**

ADVISORIES: English 1A or 1AH.

Students will develop skills in packing, driving and riding mules and horses. Students will gain experience in handling, feeding, health care and safety. Students will experience riding, packing and driving under arena and trail conditions. Low impact environmental livestock techniques and wilderness etiquette will be learned. The course will involve participation in collegiate competition. (A, CSU)

### **WELDING TECHNOLOGY (WELD)**

*New Course effective fall 2021*

341 WELDING ESSENTIALS

 0 units, 2 lecture, 3 lab hours

This course provides an introduction into the welding industry. Instruction in the areas of safety, welding processes, equipment, and the properties of metals will be covered.

*New Course effective fall 2021*

360 INTRODUCTION TO WELDING (see MFGT 60)

0 units, 3 lecture hours, 6 lab hours

 This course is a combination of basic gas welding and basic arc welding. Class topics and activities include safety procedures needed to work in school and industrial shop settings. Welding processes covered include oxyfuel welding, brazing, flame cutting, plasma cutting, shielded metal arc welding (stick) and gas metal arc welding (MIG) of various joint designs with a variety of electrode types. Welding positions include flat and horizontal. There will also be a brief intro into flux cored arc welding and gas tungsten arc welding (TIG). For Credit version of this course see MFGT 60.

*New Course effective fall 2021*

361 INTERMEDIATE WELDING (see MFGT 61)

 0 units, 1.5 lecture hours, 8 lab hours

PREREQUISITES: Welding Technology 360 or Manufacturing Technology 11 or 60 or equivalent course or verified work experience in the field.

This course is a continuation of welding techniques learned in WELD 360. Emphasis will focus on shielded metal arc welding (SMAW), gas metal arc welding (GMAW), fluxcored arc welding (FCAW) and gas tungsten arc welding (GTAW/TIG). Welding techniques will be taught in horizontal, vertical and overhead positions on steel, stainless steel, and aluminum. There will also be further hands-on use of oxyfuel cutting (OFC), plasma cutting and carbon air arc gouging. For credit version of this course see MFGT 61.

*New Course effective fall 2021*

362 ADVANCED WELDING (see MFGT 62)

 0 units, 1.5 lecture hours, 8 lab hours

PREREQUISITES: Welding Technology 361 or Manufacturing Technology 61 or equivalent course or verified work experience in the field. ADVISORIES: Mathematics 45 and English 1A or 1AH.

This course covers advanced welding practices using SMAW, GMAW, GTAW, and FCAW. Objectives will be completed in flat, horizontal, vertical, and overhead positions on steel, aluminum, and stainless steel. There will also be a general overview of inspection, testing and certification, and general fabrication concepts. For credit version of this course see MFGT 62.

*New Course effective fall 2021*

363 WELDING CERTIFICATION PREPARATION (see MFGT 63)

0 units, .5-6 lab hours

COREQUISITE: Welding Technology 361 or Manufacturing Technology 61. PREREQUISITE: Coursework equivalent to Welding Technology 361 or Manufacturing Technology 61 or verified work experience in the field.

This course provides continued practice on out-of-position welding leading to AWS certification exam procedures. Students will develop, improve, and refine welding skills through guided practice in a lab setting. For credit version of this course see MFGT 63.

*New Course effective fall 2021*

377 ASSISTANCE IN WELDING (see MFGT 277)

0 units, .5-6 lab hours

COREQUISITE: Enrollment in any other welding class offered at Reedley College. For a credit version of this course see Manufacturing Technology 277. PREREQUISITES: Verified previous welding knowledge and experience or instructor permission. ADVISORIES: Welding Technology 341 or 360 or Manufacturing Technology 11 or 60 or Mechanized Agriculture 41 or equivalent.

This course is intended for students requiring help with welding techniques. The course will provide intensive assistance in welding concepts and procedures. Students will develop, improve, and refine welding skills through guided practice in a lab setting.

# Faculty and Administration

*Numbers in parenthesis indicate year of appointment at Reedley College.*

Cuddy, Zachary (2021)

History

B.A., M.A., Arizona State

B.A., M.A., San Diego State

Dix, Tiffany (2021)

Office Technology

A.A., Reedley College

Keenan, Christine (2021)

Music

B.A., M.A., California State University, Fresno

Rodriguez, Kayla (2021)

Forestry/Natural Resources

B.S. Forestry, Humboldt State University