# **REEDLEY COLLEGE**

# **2019-2020 Catalog Addendum**

## **ACADEMIC REGULATIONS**

**Pages 20-34**

### **Grading System**

#### **EW, EXCUSED WITHDRAWALS**

An EW symbol is recorded upon approval of Petition to Withdraw Under Extenuating Circumstances.

For the spring 2020 semester only, withdrawals due to extenuating circumstances that are due to COVID-19 do not require a petition or additional documentation. Students can drop in WebAdvisor until May 15, 2020.

##### **Deadlines for selecting (or reversing) the Pass/No Pass grading option:**

#### **P/NP, PASS/NO PASS**

Due to COVID-19, the request for Pass/No Pass has been extended to May 8, 2020. **Before requesting this option, please contact your counselor and/or financial aid to determine impacts to your aid or transfer.**

Most college courses allow students the option of a final course grade of P, Pass, or NP, No Pass, instead of traditional letter grades (A, B, C, D, or F). Some courses are graded only on a Pass/No Pass basis. In courses graded only on the Pass/No Pass basis or when a student elects this grading option, the grade of P, Pass, will be assigned if the student has passed the course with a grade equivalent of A, B, or C, and credit will be awarded for the unit value of the course. The grade of NP, No Pass, will be assigned if the student earns the grade equivalent of D or F, and no units of credit will be awarded for the course. Neither the P, Pass, grade nor the NP, No Pass grade is included in the calculation of the grade point average.

A maximum of 15 units of credit may be earned on a Pass/No Pass grading basis in degree-applicable or transferable courses. The Pass/No Pass option is not recommended for any course in a student’s major. Not all courses graded on a Pass/No Pass basis are accepted for transfer by other institutions. Students planning to transfer to another college or university should be aware of the policy of that institution regarding Pass/No Pass grades.

Students may elect the Pass/No Pass grading option in courses in which it is available by notifying the college Office of Admissions and Records, using the appropriate form, which is available at the Office of Admissions and Records, no later than the end of the fifth week of full-term course or within the first 30 percent of a shorter-term course. Students who have elected the Pass/No Pass grading option may reverse this decision only within these same deadlines.

| **CLASS LENGTH** | **DEADLINE** |  |
| --- | --- | --- |
| *Due to COVID-19, the request for Pass/No Pass has been extended to May 8, 2020.* ***Before requesting this option, please contact your counselor and/or financial aid to determine impacts to your aid or transfer.*** | |  |
| For a regular 18-week class | By end of the fifth week |  |
| For a 9-week class | By end of the third week |  |
| For a 8-week class | By end of the second week |  |
| For a 6-week class | By end of the second week |  |
| For a 2-week class | By the third day |  |
| For a class less than two week | At time of class |  |

## **CERTIFICATES AND DEGREE REQUIREMENTS**

**Pages 34-38**

### **GENERAL EDUCATION FOR THE ASSOCIATE DEGREE**

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

### ***Change: add course***

1. Awareness of lifetime physical and mental wellness, demonstrated by completion of one of the following:

Sociology 1A **effective fall 2019**

***Deleted computer familiarity requirement effective spring 2020***

8. Familiarity with computer concepts and computer use

***Correction effective fall 2019***

#### **Area A Natural Sciences**

Biology 31

***Courses added effective fall 2019***

#### **Area C Humanities**

English as a Second Language 15 ***effective fall 2019***

Philosophy 3A, 3B ***effective spring 2020***

## **Associate Degree and Certificate Programs Table**

**Pages 64-68**

***New programs***

| Program | Academic Program ID | Type | Department |  |
| --- | --- | --- | --- | --- |
| General Music | R.5820.CA | CA | Fine Arts & Social Science | *effective fall 2019* |
| Industrial Maintenance Technician | R.3040.AS | AS | Industrial Technology | *effective fall 2019* |
| Industrial Maintenance Technician | R. 3040.CA | CA | Industrial Technology | *effective fall 2019* |
| Instrumental Performance | R.5830.CA | CA | Fine Arts & Social Science | *effective fall 2019* |
| Music Theory | R.5840.CA | CA | Fine Arts & Social Science | *effective fall 2019* |
| Piano Performance | R.5850.CA | CA | Fine Arts & Social Science | *effective fall 2019* |
| Vocal Performance | R.5860.CA | CA | Fine Arts & Social Science | *effective fall 2019* |

## **Associate Degrees for Transfer**

**Pages 69-86**

#### **MUSIC (MAJOR #R.5831.AA-T) *effective fall 2019***

Associate in Arts Degree for Transfer

Upon completion of the Associate in Arts in Music for Transfer degree, students will have a clear track for transfer to a CSU campus, be have been exposed to the principles and practices of the discipline of Music, and have built a foundation for personal, academic, and professional endeavors. The degree enables students to transfer to certain CSU four-year programs, preparing them for advanced university studies and potential careers in areas such as teaching, musicological research, public performance, composition, music therapy, music publishing, music-related retail business, and commercial music. Music graduates are well suited for fields that require effective time management, tenacity, and willingness to work steadily towards an achievable goal, as well as having informed perspectives on our contemporary global society. The Associate in Arts in Music for Transfer Degree provides students with a major that fulfills the general requirements of the California State University for transfer. Students with this degree will receive priority admission with junior status to the California State University system.

*Program Learning Outcomes*

* Understand the basic concepts of music theory equivalent to the first two years of musical study at the college level
* Perform with their voice or instrument of choice accurately and with the technical expertise expected by the end of two years of musical study at the college level
* Perform successfully as part of a large performance ensemble such as a chorus, orchestra, or concert band
* Identify the major time periods and relevant style periods in the history of music
* Analyze and evaluate the major economic, social, political, and cultural developments in history and how they affected arts in general and music specifically
* Identify important composers, events, and other factors influencing the direction of music history

Required Core Courses 16

MUS 1A Music Theory I 3

MUS 1B Music Theory II 3

MUS 2A Music Theory III 3

MUS 7A Ear Training: Level I 1

MUS 7B Ear Training: Level II 1

MUS 7C Ear Training Level III 1

MUS 2B Music Theory IV 3

MUS 7D Ear Training Level IV 1

Applied Music 4 semesters required 2

MUS 42 Instrumental Ensembles 1 2

or

MUS 26 Intermediate/Advanced Voice 1 2

Large Ensemble 4 semesters required 4

MUS 45 College Orchestra 1 3

or

MUS 31 Concert Choir 1 3

or

MUS 40 Concert Band 1 3

Total Units 22

#### **PHILOSOPHY (MAJOR #R.5711.AA-T) *effective fall 2019***

Associate in Arts Degree for Transfer

An Associate in Arts in Philosophy for Transfer Degree is designed for students who plan to complete a bachelor’s degree in philosophy or a related major. In addition to providing a strong philosophical foundation, the Associate in Arts in Philosophy for Transfer Degree is designed to

develop critical thinking skills, as well as enhance the ability to read, comprehend, and analyze complex arguments on a variety of issues. These skills will be valuable assets to transfer students to four-year institutions, whether they major in philosophy or another field of study.

To obtain the Associate in Arts in Philosophy for Transfer Degree students must also complete the following 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.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is an acceptable grade for courses in the major.

*Program Learning Outcomes:*

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

* Analyze deductive arguments for validity and soundness.
* Understand the difference between deductive and inductive arguments.
* Write a cogent argumentative essay.
* Respect the values of dialogue, argumentation, and principled criticism in a societal and global context.
* Explain the most important issues in philosophy and accurately characterize various opposing viewpoints on them.
* Thoroughly and accurately describe the arguments for opposing viewpoints on philosophical issues.
* Construct arguments of their own on philosophical issues and express their arguments clearly and cogently.
* Respond to objections to their own views and engage in rational dialogue on philosophical issues without resorting to logical fallacies or rhetoric.
* See philosophical questioning and rational dialogue as valuable and essential elements of a human life well lived.

Required Core 6

Select one course

PHIL 4 Introduction to Logic 3

PHIL 6 Symbolic Logic 3

Select one course

PHIL 1 Introduction to Philosophy 3

PHIL 1C Ethics 3

PHIL 1CH Honors Ethics 3

List A 3

Any course from above, not already used

PHIL 3A History of Ancient Philosophy 3

PHIL 3B History of Modern Philosophy 3

List B 6

Any course from List A not already used

HIST 1 Western Civilization to 1648 3

HIST 2 Western Civilization from 1648 3

PHIL 1D World Religions 3

List C 3

Any course articulated as lower division preparation in the Philosophy major at a CSU

ASL 1 Beginning American Sign Language 4

ASL 2 High-Beginning American Sign Language 4

ASL 3 Intermediate American Sign Language 4

ASL 4 High-Intermediate American Sign Language 4

CHIN 1 Beginning Chinese 4

CHIN 2 High-Beginning Chinese 4

ENGL 1B Introduction to the Study of Literature 3

ENGL 1BH Honors Introduction to the Study of Literature 3

ENGL 43A American Literature: Origins through Reconstruction (1877) 3

ENGL 43B American Literature: 1877 to present 3

ENGL 44A World Literature to the Renaissance 3

ENGL 44B World Literature since the Renaissance 3

ENGL 46A English Literature to 1800 3

ENGL 46B English Literature from 1800 to the Present 3

ENGL 47 Shakespeare 3

ENGL 49 Latino & Chicano Literature 3

FILM 2A History of Cinema: 1895-1960 3

FILM 2B History of Cinema: 1960 to present 3

FRENCH 1 Beginning French 4

FRENCH 2 High-Beginning French 4

FRENCH 3 Intermediate French 4

FRENCH 4 High-Intermediate French 4

GERMAN 1 Beginning German 4

GERMAN 2 High-Beginning German 4

GERMAN 3 Intermediate German 4

GERMAN 4 High-Intermediate German 4

HIST 1 Western Civilization to 1648 3

HIST 2 Western Civilization from 1648 3

HIST 11 History of the United States to 1877 3

HIST 12 History of the United States since 1865 3

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

LING 10 Introduction to Language 3

LING 11 Introduction to Language for Teachers 3

PHIL 1 Introduction to Philosophy 3

PHIL 1C Ethics 3

PHIL 1CH Honors Ethics 3

PHIL 1D World Religions 3

SPAN 1 Beginning Spanish 4

SPAN 2 High-Beginning Spanish 4

SPAN 3 Intermediate Spanish 4

SPAN 3NS Spanish for Spanish Speakers 4

SPAN 4 High-Intermediate Spanish 4

SPAN 4NS Spanish for Spanish Speakers 4

Completion of CSU General Education or IGETC

CSU electives to reach 60 units total

Total Units 60

#### **STUDIO ARTS (MAJOR #R.5203.AA-T) *effective fall 2019***

Associate in Arts Degree for Transfer

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 15

ART 3 Two-Dimensional Design 3

ART 4 Three-Dimensional Design 3

ART 5 Art History 1 3

ART 7 Beginning Drawing 3

ART 6 Art History 2 3

or

ART 6H Honors Art History 2 3

Select three curricular areas 9

ART 9 Beginning Painting: Oil and Acrylic 3

ART 10 Beginning Ceramics 3

ART 13 Beginning Watercolor Painting 3

ART 17 Intermediate Drawing 3

ART 30A Illustrator: Beginning Computer Drawing and Design 3

ART 37A Photoshop: Digital Visual Art 3

PHOTO 1 Basics of Digital Photography 3

Total Units 24

## **Associate Degree & Certificate Programs**

**Pages 87-164**

#### **ANIMAL SCIENCE (MAJOR #R.1057.CA) *effective fall 2019***

Certificate of Achievement

Students completing this program will have the basic animal husbandry skills required for entry-level employment in the livestock industry in areas such as livestock herdsman, animal trainer, livestock fitter, brand inspector, or in occupations within the food animal industry. They will understand animal behavior and have the skills and knowledge to perform safe handling techniques, feeding practices, breeding, environmental management, marketing, health maintenance, nutritional needs and common veterinary procedures. (formerly Animal Husbandry)

Program Learning Outcomes

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

* Identify the skills, education, and work experiences needed to pursue his/her chosen career path.
* Maintain an up-to-date comprehensive career portfolio to include a personal résumé, cover letter, application, skills inventory, employment history, and copies of employment application and interview correspondence (thank you letters, etc.).
* Apply effective oral and written communication skills to the work environment.
* Exhibit a high level of work ethic and good time management skills.
* Work in group settings to accomplish team goals.
* Apply commonly used computer programs to the workplace.
* Utilize equipment and technology commonly utilized in the livestock industry and related fields.
* Apply ethical animal husbandry practices and industry accepted quality assurance measures to the responsible production, processing, and marketing of livestock and animal products.
* Demonstrate basic animal management skills in regard to behavior, parturition, identification, nutrition, reproduction and health for common livestock species.
* Evaluate animal conformation and performance data in accordance with industry standards and make selection decisions, based on given scenarios, for various livestock species.

Required Courses 11

AGBS-4 - Computer Applications in Agriculture 3

AS-1 - Introduction to Animal Science 3

AS-40 - Livestock Exhibition and Marketing 2

AS-5 - Animal Nutrition 3

Select one course 3

AS-2 - Beef Production 3

AS-3 - Small Ruminant Production 3

AS-4 - Swine Production 3

AS-21 - Equine Science 3

Select one course 3

AS-6 - Livestock Selection and Evaluation 3

AS-10 - Meat Evaluation and Processing 3

Total Units 17

#### **ART: THREE-DIMENSIONAL (MAJOR # R.520B.AA) *effective fall 2019***

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 15 units from the following 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

FILM 1 Introduction to Film Studies 3

PHOTO 1 Basics of Digital Photography 3

Total Units 21

***Revised effective spring 2020***

#### **BUSINESS FOUNDATIONS (MAJOR #R.2031.CA)**

Certificate of Achievement

Students will obtain a foundational knowledge of modern business and management theories. They will have acquired the necessary skills, education and classroom experience to understand foundational business principles and be able to contribute this knowledge in entry level business positions.

**Program Learning Outcomes**  
Upon successful completion of the program, student will be able to :  
Create and interpret business documents by utilizing research and analytical skills learned in human relations, accounting, law, marketing, entrepreneurship, management, economics, and finance.

Required courses 7

BA 18 Business Law and the Legal Environment 4

IS 15 Computer Concepts 3

Select one accounting course 4

ACCTG 40 Applied Accounting 4

ACCTG 4A Financial Accounting 4

Select one economics course 3

ECON 1A Principles of Macroeconomics 3

ECON 1B Principles of Microeconomics 3

Select one course 3-4

BA 39 Finite Mathematics for Business 3

STAT 7 Elementary Statistics 4

Total Units 17-18

#### **FOREST SURVEYING TECHNOLOGY *effective fall 2019***

Certificate of Achievement

Students will have the knowledge, training, and hands-on experience to pursue a career in Natural Resources emphasizing the measurement of objects at or near the Earth’s surface in the context of managing resources for multiple use. They will enter the workforce with specialized surveying, mapping, GIS, GPS, and photo interpretive training.

Program Learning Outcomes

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

* Communicate effectively, including use of proper presentation and interpretative techniques to, the public and co-workers, using diverse media.
* Utilize and apply digital/electronic technology and specialized software programs for forest mapping, inventorying, and communication.
* Demonstrate a breadth of knowledge of scientific, social, and political issues tied to the natural resources industry, providing a base for decision making and credibility in personal interactions and career decisions.
* Perform technical skills important for entry level positions in the forestry and natural resources field.
* Successfully secure and maintain seasonal employment in the forestry and natural resources field while demonstrating professional ethics.
* Describe scientific concepts and processes which affect the sustainability of natural resources.

Required Core 12

NR 8 Natural Resources Career Preparation 1

NR 17 Introduction to Forest Surveying 3

NR 18 Aerial Photo Interpretation & Geographic Information Systems 3

NR 19V Cooperative Work Experience – Forestry 2

NR 20 Forest Measurements 3

Select two (2): 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

NR 116 Advanced Field Studies II .5

Select one math course 3-5

MATH 3A College Algebra 4

MATH 4A Trigonometry 4

MATH 45 Contemporary Mathematics 3

MATH 103 Intermediate Algebra 5

Total Credits 16-18

#### **FORESTRY (MAJOR #R.1210.AS) *effective fall 2019***

Associate in Science Degree

The Associate in Science Degree in Forestry is designed to provide students with the knowledge, training, and hands-on experience necessary to pursue a career in forestry. Students are exposed to the guiding principles and philosophies of forestry and natural resource management in the context of ecosystem management. Following completion of this program, students will have the specialized training and technical skills for entry-level positions that can lead to accelerated advancement into supervisory and/or management positions. Opportunities exist within private, state and federal agencies such as Cal Fire and U.S. Forest Service. Careers abound in the areas of timber management, forest surveying, and land management.

Required Courses

NR 1 Introduction to Forestry 3

NR 3 Computers in Natural Resources 1

NR 4 Forest Ecosystems 3

NR 6 Dendrology 3

NR 8 Natural Resources Career Preparation 1

NR 11 Silviculture 3

NR 17 Introduction to Forest Surveying 3

NR 18 Aerial Photo Interpretation & Geographic Information Systems 3

NR 19V Cooperative Work Experience – Forestry 2

NR 20 Forest Measurements 3

NR 21 Forest Products 3

NR 22 Forest Protection 2

NR 25 Forest and Resource Management 1

NR 35 Interpretation of Natural Resources 3

Required Courses - select 2 units from following: 2

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

NR 116 Advanced Field Studies II .5

Restricted Electives - select at least 3 units from following 3

NR 5 Wildland Fire Technology 3

NR 12 Watershed Ecology 3

NR 14 Principles of Wildlife Management 3

NR 30 Forest Recreation 3

NR 31 Animal Packing 2

NR 32A Museum Techniques-Beginning Taxidermy 1

NR 32B Museum Techniques-Intermediate Taxidermy 1

NR 32C Museum Techniques-Advanced Taxidermy 1

NR 34 Conservation Laboratory 1

NR 36 Natural Resources Law Enforcement 3

NR 42 Advanced Wildland Fire Technology 2

NR 44 Fire Ecology 3

NR 45 Fuels Management 3

NR 90 Backpacking 1

NR 91 Wilderness Navigation 1

NR 92 Wilderness Survival 1

NR 133 Introduction to Chainsaw Operations 1

Total Credits 39

***Deleted Program (from 2019-2020 catalog) effective spring 2020***

Forestry/Natural Resources, Associate in Science Degree

***New program effective spring 2020***

#### **HONORS PROGRAM (MAJOR #R.5440.CN)**

Certificate

Upon successful completion of the honors program, students will have completed at least 15 units of their choice of honors classes with at least one of those courses being an honors forum research course; students will have maintained a cumulative grade point average of at least 3.0. Students will have the knowledge and skills to conduct research-based, interdisciplinary research and then present this research. Honors students will be able to analyze and utilize scholarly research materials that incorporate sufficient, credible, and relevant evidence in written and/or oral communication within the various academic disciplines.

Program Learning Outcomes

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

* Analyze and utilize scholarly research materials that incorporate sufficient, credible, and relevant evidence in written and/or oral communication within the various academic disciplines.

Select 15 units: 15

Art 6H Honors Art History 3

COMM 1H Honors Public Speaking 3

ENGL 1AH Honors Reading and Composition 4

ENGL 1BH Honors Introduction to the Study of Literature 3

ENGL 3H Honors Critical Reading and Writing 3

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

HONORS 1 Honors Colloquium 1

HONORS 2 Honors Seminar 1

HONORS 3A Honors Forum--Applied Sciences 2

HONORS 3B Honors Forum—Humanities 2

HONORS 3C Honors Forum--Natural and Biological Sciences 2

HONORS 3D Honors Forum--Social Sciences 2

HONORS 4 International Cultural Exploration 2

MUS 12H Honors Music Appreciation 3

PHIL 1CH Honors Ethics 3

POLSCI 2H Honors American Government 3

PSY 2H Honors General Psychology 3

Total Units 15

***New program effective spring 2020***

#### **INDUSTRIAL MAINTENANCE TECHNICIAN (MAJOR: #R.3040.AS)**

Associate in Science Degree

Students successfully completing this program will have the industry-recognized skills needed for a career in industrial maintenance. They will be ready for workforce employment in the following areas: maintenance operations, mechanical and fluid power systems, electrical and electronic control systems, process control, repair welding, and piping systems.

Program Learning Outcomes

1. Combine basic theoretical knowledge and understanding of the industrial maintenance field and practical laboratory experience to set up and repair industrial equipment.
2. Employ a systematic approach to troubleshooting an industrial system malfunction and prepare an effective repair solution.
3. Demonstrate effective communication and employability skills in the workplace.
4. Demonstrate the proper use of safety equipment, devices, and procedures in classroom and lab environments.
5. Perform corrective and preventive maintenance procedures on industrial equipment.

IT 10 Maintenance Operations 3

IT 11 Basic Mechanical Systems 3

IT 20 Basic Hydraulic Systems 2

IT 21 Basic Pneumatic Systems 2

IT 30 Electrical Systems 4

IT 31 Electronic Control Systems 4

IT 32 Process Control Systems 3

IT 61 Maintenance Piping 2

MFGT 19V Cooperative Work Experience - Manufacturing Technology 1

MFGT 60 Introduction to Welding 5

Total Units 29

***New program effective spring 2020***

#### **INDUSTRIAL MAINTENANCE TECHNICIAN (MAJOR: #R.3040.CA)**

Certificate of Achievement

Students successfully completing this program will have the industry-recognized skills needed for a career in industrial maintenance. They will be ready for workforce employment in the following areas: maintenance operations, mechanical and fluid power systems, electrical and electronic control systems, process control, repair welding, and piping systems.

Program Learning Outcomes

1. Combine basic theoretical knowledge and understanding of the industrial maintenance field and practical laboratory experience to set up and repair industrial equipment.
2. Employ a systematic approach to troubleshooting an industrial system malfunction and prepare an effective repair solution.
3. Demonstrate effective communication and employability skills in the workplace.
4. Demonstrate the proper use of safety equipment, devices, and procedures in classroom and lab environments.
5. Perform corrective and preventive maintenance procedures on industrial equipment.

IT 10 Maintenance Operations 3

IT 11 Basic Mechanical Systems 3

IT 20 Basic Hydraulic Systems 2

IT 21 Basic Pneumatic Systems 2

IT 30 Electrical Systems 4

IT 31 Electronic Control Systems 4

IT 32 Process Control Systems 3

IT 61 Maintenance Piping 2

MFGT 19V Cooperative Work Experience - Manufacturing Technology 1

MFGT 60 Introduction to Welding 5

Total Units 29

#### **INFORMATION SYSTEMS *effective fall 2019***

Certificate of Achievement

The purpose of this core program is to provide students with the knowledge, training, and hands-on experience to pursue a career in Information Systems. Students completing this course of study will be able to enter the workforce with a comprehensive understanding of the fundamental elements of computing in a business environment.

Program Learning Outcomes

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

* Operate commonly used computer hardware and office software.
* Create a Web document that contains Hyperlinks, graphics, tables and forms.
* Demonstrate a breadth of knowledge of networking and its uses in the business environment.
* Plan, design, and write stand-alone computer programs.

Required Courses 15

BA 10 Introduction to Business 3

IS 15 Computer Concepts 3

IS 31 Introduction to Programming 3

IS 40A Web Development with HTML 3

IS 60 Operating Systems 3

Select one course 3 - 4

IS 26A Database Concepts and Design 3

IS 33 Beginning Java Programming 3

IS 40B Advanced Web Development 4

IS 47 Visual Basic 3

IS 50A Introduction to Game Programming 3

Total Credits 18-19

#### **INFORMATION SYSTEMS, INFORMATION TECHNOLOGY SUPPORT OPTION *effective fall 2019***

Associate in Science Degree

Students who successfully complete the program will be prepared to take the CompTIA A+ Certification exam, a certification that is recognized industry-wide as a benchmark for information technology technician certification.

Program Learning Outcomes

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

* operate commonly used computer hardware and office software
* identify the categories of software by their purpose and provide examples of each category
* plan, design, and write stand-alone computer programs
* apply structured logic in analyzing and solving problems
* develop a well-designed relational database
* create a web document that contains hyperlinks, graphics, tables, and forms
* demonstrate a breadth of knowledge of networking and its uses in the business environment.

Business Department Core 6

BA 5 Business Communications 3

BA 10 Introduction to Business 3

Information Systems Core 13

IS 40A Web Development with HTML 3

IS 40B Advanced Web Development 4

IS 31 Introduction to Programming 3

IS 26A Database Concepts and Design 3

IT support courses (select one option) 11.5 - 12

Option 1, 11.5 units

IS 15 Computer Concepts 3

IS 60 Operating Systems 3

IS 62 Computer Troubleshooting and Maintenance 2.5

IS 63 Computer Networking I 3

Option 2, 12 units

IS 80 Computer Technician A+ Training 12

Select one math course 3 - 4

STAT 7 Elementary Statistics 4

BA 39 Finite Mathematics for Business 3

Total Credits 33.5-35

#### **INFORMATION SYSTEMS, NETWORKING AND SECURITY (MAJOR #R.6974.AS) *effective fall 2019***

Associate in Science Degree

Students who successfully complete the program will be prepared to take the CompTIA Network+ and Security+ Certification exams, certifications recognized industry-wide as benchmarks for computer networking and security technician certification.

Program Learning Outcomes

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

* operate commonly used computer hardware and office software
* identify the categories of software by their purpose and provide examples of each category
* plan, design, and write stand-alone computer programs
* apply structured logic in analyzing and solving problems
* develop a well-designed relational database
* create a web document that contains hyperlinks, graphics, tables, and forms
* demonstrate a breadth of knowledge of networking and its uses in the business environment.

Business Department Core 19

BA 5 Business Communications 3

BA 10 Introduction to Business 3

IS 26A Database Concepts and Design 3

IS 31 Introduction to Programming 3

IS 40A Web Development with HTML 3

IS 40B Advanced Web Development 4

Information Systems Core (select one option) 10-12

Option 1, 10 units

IS 15 Computer Concepts 3

IS 60 Operating Systems 3

IS 61 Computer Building and Configuration 1.5

IS 62 Computer Troubleshooting and Maintenance 2.5

Option 2, 12 units

IS 80 Computer Technician A+ Training 12

Networking and Security Courses (select one option) 12

Option 1, 12 units

IS 63 Computer Networking I 3

IS 64 Computer Networking II 3

IS 70 Introduction to Cyber Security 3

IS 71 Cyber Security: Ethical Hacking 3

Option 2, 12 units

IS 81 Computer Network + and Security + Training 12

Select one math course 3-5

BA 39 Finite Mathematics for Business 3

MATH 5A Math Analysis I 5

STAT 7 Elementary Statistics 4

Total Credits 44 - 48

#### **GENERAL MUSIC (MAJOR #R.5820.CA) *effective fall 2019***

Certificate of Achievement

Upon completion of this program, students will have general understanding of the fundamental elements and skills in the music profession including music theory, ear training, piano, applied instrument or voice, and performance with an ensemble. This certificate serves students who are

interested in exploring various aspects of music but who do not want to major in it.

Program Learning Outcomes

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

* Understand basic music theory and ear training skills through analysis, sight singing, and dictation.
* Demonstrate proper performance skills on one or more instruments (including voice).

Semester 1 6

MUS 1A Music Theory I 3

MUS 7A Ear Training: Level I 1

MUS 20 Beginning Piano: Level I 2

Semester 2 6

MUS 1B Music Theory II 3

MUS 7B Ear Training: Level II 1

MUS 21 Beginning Piano: Level II 2

Four semesters of one of the following courses with a minimum of 4 units 4

MUS 24 Elementary Voice - Level I 1

MUS 26 Intermediate/Advanced Voice 1

MUS 42 Instrumental Ensembles 1 - 2

Four semesters of one of the following courses with a minimum of 4 units 4

MUS 31 Concert Choir 1 - 3

MUS 33 Chamber Singers 1 - 3

MUS 38 Musical Theater Practicum 1

MUS 40 Concert Band 1 - 3

MUS 41 Jazz Ensemble 1 - 2

MUS 45 College Orchestra 1 - 3

Total Units 20

#### **INSTRUMENTAL PERFORMANCE (MAJOR #R.5830.CA) *effective fall 2019***

Certificate of Achievement

Upon completion of this certificate, students will be able to read and analyze music theory, have knowledge of music history, develop skills performing in an ensemble, and demonstrate advanced instrumental skills. This program is designed for students who want to pursue music

coursework in a structured fashion with an instrument other than piano as their primary area of emphasis without completing a music degree.

Program Learning Outcomes

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

* Understand basic music theory and analysis. 70
* Demonstrate proper performance technique when playing their primary instrument.

Music Core 1 3

MUS 1A Music Theory I 3

MUS 3 Music Fundamentals 3

Music Core 2 3

MUS 1B Music Theory II 3

MUS 12 Music Appreciation 3

MUS 12H Honors Music Appreciation 3

Four semesters with a minimum of 4 units 4

MUS 42 Instrumental Ensembles 1 - 2

Four semesters of one of the following courses with a minimum of 4 units 4

MUS 40 Concert Band 1 - 3

MUS 41 Jazz Ensemble 1 - 2

MUS 45 College Orchestra 1 - 3

Total Credits 14-15

#### **MUSIC THEORY (MAJOR #R.5840.CA) *effective fall 2019***

Certificate of Achievement

Upon completing this certificate student will have the ability to read, write, and analyze music theory from fundamental note reading through modern compositional techniques. This program is designed for students interested in learning western classical music theory.

Program Learning Outcomes

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

* Understand music theory through reading, writing, and analyzing Western classical music.

MUS 1A Music Theory I 3

MUS 1B Music Theory II 3

MUS 2A Music Theory III 3

MUS 2B Music Theory IV 3

Total Units 12

#### **PIANO PERFORMANCE (MAJOR #R.5850.CA) *effective fall 2019***

Certificate of Achievement

Upon completion of this certificate, students will be able to read and analyze music theory, have knowledge of music history, develop skills performing in an ensemble, and demonstrate advanced piano skills. This program is designed for students who want to pursue music coursework in a structured fashion with piano as their primary area of emphasis without completing a music degree.

Program Learning Outcomes

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

* Understand basic music theory and analysis 70
* Demonstrate proper performance technique on piano.

Select one course 3

MUS 1A Music Theory I 3

MUS 3 Music Fundamentals 3

Select one course 3

MUS 1B Music Theory II 3

MUS 12 Music Appreciation 3

MUS 12H Honors Music Appreciation 3

Four semesters of piano 4

MUS 20 Beginning Piano: Level I 2

MUS 21 Beginning Piano: Level II 2

MUS 22 Intermediate/Advanced Piano 1-2

Four Semesters 4

MUS 31 Concert Choir 1 - 3

MUS 33 Chamber Singers 1 - 3

MUS 38 Musical Theater Practicum 1

MUS 40 Concert Band 1 - 3

MUS 41 Jazz Ensemble 1 - 2

MUS 45 College Orchestra 1 - 3

Total Units 14

#### **VOCAL PERFORMANCE (MAJOR #R.5860.CA) *effective fall 2019***

Certificate of Achievement

Upon completion of this certificate, students will be able to read and analyze music theory, have knowledge of music history, develop skills performing in an ensemble, and demonstrate advanced vocal performance skills. This program is designed for students who want to pursue

music coursework in a structured fashion with voice as their primary area of emphasis without completing a music degree.

Program Learning Outcomes:

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

* Understand basic music theory and analysis.
* Demonstrate proper vocal technique when singing.

Select one course 3

MUS 1A Music Theory I 3

MUS 3 Music Fundamentals 3

Select one course 3

MUS 1B Music Theory II 3

MUS 12 Music Appreciation 3

MUS 12H Honors Music Appreciation 3

Four Semesters 4

MUS 26 Intermediate/Advanced Voice 1

Four Semesters 4

MUS 31 Concert Choir 1 - 3

MUS 33 Chamber Singers 1 - 3

MUS 38 Musical Theater Practicum 1

Total Units 14-15

## **COURSE DESCRIPTIONS**

**Pages 168-276**

### **ART (ART)**

***Change: catalog description, advisories* *effective fall 2019***

4 Three-Dimensional Design

3 units, 2 lecture hours, 4 lab hours, pass/no pass.

ADVISORIES: English 1A or 1AH.

This course will be a study of the formal elements and principles of design in the visual language of three-dimensional art. The course will include the theory and the practice of these elements as they apply to three-dimensional space and form. The projects in this class will incorporate a variety media and building methods. (A, CSU, UC) (C-ID ARTS 101)

***Change: advisories* *effective fall 2019***

5 Art History 1

3 units, 3 lecture hours, pass/no pass

ADVISORIES: English 1A or 1AH.

This course examines the history of cultural production and visual aesthetics including two and three dimensional art and architecture from Prehistory through the Gothic Period. (A, CSU-GE, UC, I) (C-ID ARTH 110)

***Change: advisories* *effective fall 2019***

6 Art History 2

3 units, 3 lecture hours, pass/no pass

ADVISORIES: English 1A or 1AH.

This course examines the history of cultural production and visual aesthetics including two and three dimensional art and architecture from the early renaissance through the end of the twentieth century. (A, CSU-GE, UC, I) (C-ID ARTH 120)

***Change: advisories* *effective fall 2019***

20 Intermediate Ceramics

3 units, 2 lecture hours, 3 lab hours, pass/no pass

PREREQUISITE: Art 10. ADVISORIES: Mathematics 45 and English 1A or 1AH.

This class will focus on strengthening and extending the basic skills of pottery making with wheel throwing and hand building techniques. Through lecture, demonstration, and guided practice, students will be introduced to creating larger and more complex forms in clay as well as refinement of pottery forms, decorative treatments and glaze techniques. Aesthetics and individual creativity will be encouraged in the assignments and explored through historical and cultural settings. (A, CSU, UC)

***Change: advisories, catalog description* *effective fall 2019***

36A Intermediate Wheel Throwing

3 units, 2 lecture hours, 3 lab hours, pass/no pass

PREREQUISITES: Art 10. ADVISORIES: Mathematics 45 and English 1A or 1AH.

This course will focus on intermediate-level throwing on the potter's wheel. Students will explore the use of the potters wheel as a means of producing utilitarian as well as non utilitarian forms. Course areas of study will focus on vessels and forms made on the wheel, clays and their materials attributes as they relate to construction and glaze formulation. (A, CSU)

***Change: prerequisites, advisories, catalog description* *effective fall 2019***

38A Intermediate Hand-Building

3 units, 2 lecture hours, 3 lab hours, pass/no pass

PREREQUISITES: Art 15. ADVISORIES: Mathematics 45 and English 1A or 1AH.

This course will focus on intermediate-level hand building of ceramic art. The techniques of coil, slab, and other hand construction methods will be explored, refined and developed to reflect an intermediate level comprehension of the material. Course work will center around sculptural projects that engage elements of design as well as content and material exploration.

(A, CSU, UC)

***Change: prerequisites, advisories, catalog description* *effective fall 2019***

43 Independent Projects Studio

2-3 units, pass/no pass

2 units, 1 lecture hour, 3-4 lab hours

3 units, 2 lecture hours, 3-4 lab hours

PREREQUISITES: Art 7 or 9 or 10 or 13 or 15 or 30A or 37A or 38.

This course involves the production of individual work under supervision of instructor in a specialized area. It may include ceramics, commercial art, digital imaging, drawing, design, sculpture, printmaking, painting or photography. During the first week of the semester, student enrolling must present an appropriate project based upon skills learned in other art courses. (A, CSU)

### **AVIATION MAINTENANCE TECHNOLOGY (AMT)**

***Change: revised hours, deleted advisories* *effective fall 2019***

11 Basic Electricity, Propellers, and Human Factors

3.5 units, 5 lecture hours

COREQUISITES: Aviation Maintenance Technology 11L, 12, 12L, 13, and 13L.

This lecture course will cover a variety of subject areas required by the Federal Aviation Administration as part of the Aviation Maintenance Technology Program. Topics covered will be basic electrical theory and the relationship of voltage, current, and resistance in electrical circuits; the inspection, servicing, and repair of fixed-pitch, constant speed, and feathering type propellers; and the investigation of factors that affect human performance in aviation maintenance. (A, CSU)

***Change: revised hours, deleted advisories* *effective fall 2019***

12 Materials & Processes, Electrical Systems, and Communication & Navigation Systems

3.5 units, 5 lecture hours

COREQUISITES: Aviation Maintenance Technology 11, 11L, 12L, 13, 13L.

This lecture course will cover a variety of subject areas required by the Federal Aviation Administration as part of the Aviation Maintenance Technology Program. Topics covered will be the identification and selection of aircraft hardware and materials, the application of appropriate nondestructive testing methods and performing precision measurements, and maintenance of aircraft electrical systems and their components, controls, switches, indicators, and protective devices. Also covered is the inspection and servicing of electronic communication and navigation systems, and troubleshooting and repairing autopilot and approach control systems. (A, CSU)

***Change: revised hours, deleted advisories* *effective fall 2019***

13 Maintenance Publications, Mechanic Privileges and Limitations, hydraulics, Landing Gear, and Cabin Atmosphere Control Systems

3.5 units, 5 lecture hours

COREQUISITES: Aviation Maintenance Technology 11, 11L, 12, 12L, 13L.

This lecture course will cover a variety of subject areas required by the Federal Aviation Administration as part of the Aviation Maintenance Technology Program. Topics covered will include reading, comprehending, and applying information contained in aircraft maintenance manuals; complying with Federal Aviation Regulations, airworthiness directives, advisory materials, and exercising mechanic privileges; the inspection, troubleshooting, and repair of hydraulic or pneumatic systems, maintaining landing gear systems, brakes, wheels, tires, and steering systems; inspecting and servicing speed and take-off warning systems; and repairing heating, cooling, air conditioning, pressurization, and oxygen systems. (A, CSU)

***Change: revised hours, deleted advisories* *effective fall 2019***

21 Unducted Fans, Auxiliary Power Units, Basic Physics, Assembly & Rigging, and Weight & Balance

3.5 units, 5 lecture hours

COREQUISITES: Aviation Maintenance Technology 21L, 22, 22L, 23, 23L.

This lecture course will cover a variety of subject areas required by the Federal Aviation Administration as part of the Aviation Maintenance Technology Program. Topics covered will include the inspecting and troubleshooting of unducted fan systems, and turbine-driven auxiliary power units; exploring the principles of simple machines, sound, fluid, and heat dynamics; basic aerodynamics, aircraft structures, and the theory of flight; assembly of aircraft components, including flight control surfaces, control surface balance, aircraft rigging, and inspection of flight control surfaces; and the weighing of aircraft in order to perform complete weight-and-balance checks. (A, CSU)

***Change: revised hours, deleted advisories* *effective fall 2019***

22 Aircraft Composite Structures, Aircraft Wood Structures, and Welding

3.5 units, 5 lecture hours

COREQUISITES: Aviation Maintenance Technology 21, 21L, 22L, 23, 23L.

This lecture course will cover a variety of subject areas required by the Federal Aviation Administration as part of the Aviation Maintenance Technology Program. Topics include the identification and selection of appropriate aircraft hardware, materials, and special fasteners for bonded and composite structures; the inspection, testing, and repair of fiberglass, plastics, honeycomb, composites, and laminated primary and secondary structures; welding techniques used on aircraft metallic structures; identification of wood aircraft defects, and the inspection, servicing, and repair of wooden aircraft structures. (A, CSU)

***Change: revised hours, deleted advisories* *effective fall 2019***

23 Aircraft Finishes, Aircraft Covering, Lubrication Systems, and Ignition & Starting Systems

3.5 units, 5 lecture hours

COREQUISITES: Aviation Maintenance Technology 21, 21L, 22, 22L, 23L.

This lecture course will cover a variety of subject areas required by the Federal Aviation Administration as part of the Aviation Maintenance Technology Program. Topics covered will include reading, comprehending, and applying information contained in aircraft maintenance manuals and publications; complying with Federal Aviation Regulations, airworthiness directives, and advisory materials; writing descriptions of aircraft condition and work performed using typical aircraft maintenance records; identifying and selecting aircraft finishing materials, applying aircraft paints, and selecting and applying fabric and fiberglass covering materials; inspecting, servicing, troubleshooting and repairing engine lubrication systems; and servicing reciprocating and turbine engine ignition systems. (A, CSU)

***Change: revised hours, deleted advisories* *effective fall 2019***

31 Turbine Engines

3.5 units, 5 lecture hours

COREQUISITES: Aviation Maintenance Technology 31L, 32, 32L, 33, 33L.

This lecture course will cover a variety of subject areas required by the Federal Aviation Administration as part of the Aviation Maintenance Technology Program. Topics covered will include the inspection, service, installation, and overhaul of turbine engines. Electrical theory and the relationship of voltage, current, and resistance related to turbine engines will also be covered. (A, CSU)

***Change: revised hours, deleted advisories* *effective fall 2019***

32 Aircraft Sheetmetal Structures, Aircraft & Engine Instruments, and Ice & Rain Protection

3.5 units, 5 lecture hours

COREQUISITES: Aviation Maintenance Technology 31, 31L, 32L, 33 33L.

This lecture course will cover a variety of subject areas required by the Federal Aviation Administration as part of the Aviation Maintenance Technology Program. Topics will include the identification and selection of appropriate aircraft hardware and materials; inspection and repair of sheet-metal structures, installing conventional rivets, forming, lay out, and bending of sheet metal; inspection, servicing, and repair of electronic flight instrument systems and heading, speed, altitude, temperature, pressure, and position indicating systems; and the inspection, servicing, and repair of airframe ice and rain control systems. (A, CSU)

***Change: revised hours, deleted advisories* *effective fall 2019***

33 Aircraft Reciprocating Engines

3.5 units, 5 lecture hours

COREQUISITES: Aviation Maintenance Technology 31, 31L, 32, 32L, 33L.

This lecture course will cover a variety of subject areas required by the Federal Aviation Administration as part of the Aviation Maintenance Technology Program. Topics to be covered will include reading, comprehending, and applying information contained in aircraft maintenance manuals; writing descriptions of aircraft condition and work performed using maintenance records practices; and the removal, inspection, repair, and installation of reciprocating engines. (A, CSU)

***Change: revised hours, deleted advisories* *effective fall 2019***

41 Aircraft & Engine Fuel Systems, Fuel Metering Systems, and Aircraft & Engine Fire Protection Systems

3.5 units, 5 lecture hours

COREQUISITES: Aviation Maintenance Technology 41L, 42, 42L, 43, 43L.

This lecture course will cover a variety of subject areas required by the Federal Aviation Administration as part of the Aviation Maintenance Technology Program. Topics covered will include turbine engine fuel metering systems, electronic engine fuel controls, reciprocating and turbine fuel metering system components, and performing fuel management transfers and defueling procedures. Also covered will be fluid quantity indicating systems, fluid pressure and temperature warning systems, engine fire, smoke, carbon dioxide detection systems and fire extinguishing systems. (A, CSU)

***Change: revised hours, deleted advisories* *effective fall 2019***

42 Aircraft Drawings, Mathematics, Fluid Lines & Fittings, Airframe Inspection, and Cleaning & Corrosion Control

3.5 units, 5 lecture hours

COREQUISITES: Aviation Maintenance Technology 41, 41L, 42L, 43, 43L.

This lecture course will cover a variety of subject areas required by the Federal Aviation Administration as part of the Aviation Maintenance Technology Program. Topics include: interpreting aircraft drawings and schematics, determining area and volume of geometrical shapes, solving ratio, proportion, algebraic, and percentage math problems. Also covered will be

fabricating and installing rigid and flexible fluid lines, performing airframe conformity and airworthiness inspections, identifying and selecting proper cleaning materials, inspecting, identifying, removing, and treating aircraft corrosion, and reading and writing descriptions of work performed. (A, CSU)

***Change: revised hours, deleted advisories* *effective fall 2019***

43 Engine Exhaust, Induction, and Cooling Systems, Engine Electrical, Engine Inspection, and Ground

Operations & Servicing

3.5 units, 5 lecture hours

COREQUISITES: Aviation Maintenance Technology 41, 41L, 42, 42L, 43L.

This lecture course will cover a variety of subject areas required by the Federal Aviation Administration as part of the Aviation Maintenance Technology Program. Topics covered will include the inspection, service, and repair of engine exhaust systems, thrust reverser systems, and engine ice and rain control systems; heat exchangers, superchargers, and turbine engine airflow and temperature control systems; cooling systems and electrical system components, wiring, controls, switches, indicators, and protective devices. Also covered will be performing powerplant air worthiness inspections, starting, ground operation, moving, servicing, and securing aircraft, and identifying and selecting fuels. (A, CSU)

### **COMMUNICATION (COMM)**

***New Course* *effective fall 2019***

18 Introduction to Communication Theory

3 units, 3 lecture hours, pass/no pass

ADVISORIES: Completion of English 1A or 1AH.

This course is a survey of the discipline of communication studies with emphasis on theory. Students will explore basic history, principles, processes, methods, and theories of human communication as an academic field of study. (A, CSU)

### **CRIMINOLOGY (CRIM)**

***Correction: add grading option, advisories* *effective fall 2019***

1 Introduction to Criminology

3 units, 3 lecture hours, pass/no pass

ADVISORIES: English 132.

***Correction: add grading option, advisories* *effective fall 2019***

3 Legal Aspects of Evidence

3 units, 3 lecture hours, pass/no pass

ADVISORIES: English 132.

***Correction: add grading option, advisories* *effective fall 2019***

4 Principles & Procedures of the Justice System

3 units, 3 lecture hours, pass/no pass

ADVISORIES: English 132.

***Correction: add grading option, advisories* *effective fall 2019***

5 Community Relations

3 units, 3 lecture hours, pass/no pass

ADVISORIES: English 132.

***Correction: add grading option, advisories* *effective fall 2019***

7 Police Operations and Procedures

3 units, 3 lecture hours, pass/no pass

ADVISORIES: English 132.

***Correction: add grading option, advisories* *effective fall 2019***

8 Criminal Investigations

3 units, 3 lecture hours, pass/no pass

ADVISORIES: English 132.

***Correction: add grading option, advisories* *effective fall 2019***

10 Vice Control

3 units, 3 lecture hours, pass/no pass

ADVISORIES: English 132.

### **ENGINEERING (ENGR)**

***C-ID approved* *effective fall 2019***

4 Engineering Materials

3 units, 3 lecture hours, pass/no pass

PREREQUISITES: Chemistry 1A and Physics 4A. ADVISORIES: English 1A or 1AH.

This course presents the internal structures and resulting behaviors of materials used in engineering applications, including metals, ceramics, polymers, composites, and semiconductors. The emphasis is upon developing the ability both to select appropriate materials to meet engineering design criteria and to understand the effects of heat, stress, imperfections, and chemical environments upon material properties and performance. (A, CSU, UC) (C-ID ENGR 140) (C-ID ENGR 140B: ENGR 4 & ENGR 4L)

***Added additional c-id designation* *effective fall 2019***

4L Engineering Materials Laboratory

1 unit, 3 lab hours, pass/no pass

PREREQUISITES: Chemistry 1A and Physics 4A. COREQUISITES: Engineering 4 (previously or concurrently). ADVISORIES: English 1A or 1AH.

This course is the experimental exploration of the connections between the structure of materials and materials properties. Laboratories provide opportunities to directly observe the structures and behaviors discussed in the lecture course (ENGR 4), to operate testing equipment, to analyze experimental data, and to prepare reports. (A, CSU) (C-ID ENGR 140L) (C-ID ENGR 140B: ENGR 4 & ENGR 4L)

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

***Added CSU-GE, UC transferability* *effective fall 2019***

15 Advanced Academic Reading and Writing

6 units, 6 lecture hours, pass/no pass

ADVISORIES: English as a Second Language 225W and 226R or English as a Second Language 325W and 326R, or placement through a multiple-measure process, including an appropriate score on an approved ESL placement test.

Students explore themes encountered in college classes through critical reading and writing. Students evaluate authentic, college-level texts, including academic, technical, and literary works. Students develop and support their theses in multiple-draft, source-based expository essays in academic English. This course provides language support and a lens for cultural insight for multilingual students. Successful completion of this course will prepare students for English 1A. (A, CSU-GE, UC)

***New Course* *effective fall 2019***

317G Advanced Academic Grammar

0 units, 3 lecture hours, pass/no pass only

ADVISORIES: Successful completion of English as a Second Language 227G or 327G or appropriate multiple-measure placement.

ESL 317G is a grammar skills course designed for speakers of other languages who want to comprehend and use grammar structures in written and oral academic English. This advanced course may be taken concurrently with other ESL, English, or collegiate level courses. The content of ESL 317G, a non-credit course, is identical to that of ESL 117G, a credit course. ESL 317G shall be offered with ESL 117G as a dual-roster class.

### **GEOLOGY (GEOL)**

***Change: approved for c-id* *effective fall 2019***

1 Physical Geology

4 units, 3 lecture hours, 3 lab hours

ADVISORIES: English 1A or 1AH and Mathematics 3A.

This course is an introduction to the forces and processes shaping the surface of the earth. These include plate tectonics, igneous intrusion, volcanism, formation of sediment and sedimentary rock, metamorphism, earthquakes, and the formation of mountain belts. Other topics covered include faulting and folding of rock, time and its implications, formation of geologic resources (metals and petroleum), ocean basins and coasts, surface water/flooding and groundwater. Laboratory exercises will include rock and mineral identification, and interpretation of topographical and geological maps. Field trips to classic geological locations may be offered to emphasize class material. (A, CSU-GE, UC, I) (C-ID GEOL 101)

### **MAINTENANCE MECHANIC (MM)**

***Compliance of units to hours effective spring 2020***

**252B PROGRAMMABLE CONTROLS**

.5 units, .25 lecture hours, .75 lab hours, pass/no pass

This course provides an introduction to the equipment and peripherals used to interface with industrial controlling devices.

### **PHOTOGRAPHY (PHOTO)**

***Change: advisories, catalog description* *effective fall 2019***

1 Basics of Digital Photography

3 units, 3 lecture hours, pass/no pass

ADVISORIES: English 1A or 1AH.

Basics of Digital Photography covers the development of the camera, digital photographic processes, and the history of the photographic image. The use of an adjustable digital camera is studied, along with an introduction to basic digital software editing programs. (A, CSU-GE, UC)

### **PHYSICAL EDUCATION (PE)**

***New course effective spring 2020***

**36E SOCCER TRAINING**

**3 units, 9.5 lab hours, 3 repeats**

Off-season training, conditioning, strength and skills development for competitive soccer players.(A, CSU)

### **PSYCHOLOGY (PSY)**

***Change: advisories* *effective fall 2019***

2 General Psychology

3 units, 3 lecture hours, pass/no pass

ADVISORIES: English 1A or 1AH.

This course presents an overview of the field of psychology, a field that emphasizes the scientific study of human behavior and mental processes. Topics include history, methodology, biopsychology, life-span development, sensation and perception, consciousness and altered states, learning and memory, thought and language, intelligence, motivation and emotion, personality, psychopathology and therapy, stress and health, social and cultural influences. (A, CSU-GE, UC, I) (C-ID PSY 110)

***Change: advisories, catalog description* *effective fall 2019***

2H Honors General Psychology

3 units, 3 lecture hours

ADVISORIES: English 1A or 1AH.

This course presents an overview of the field of psychology that emphasizes the scientific study of human behavior and mental processes. Topics include history, methodology, biopsychology, lifespan development, sensation and perception, consciousness and altered states, learning and memory, thought and language, intelligence, motivation and emotion, personality, psychopathology and therapy, stress and health, social and cultural influences. The Honors section of this course places a greater emphasis on understanding the human being as an integrated physiological, social, and psychological organism and further enriches that perspective with data and theories from related disciplines. (A, CSU-GE, UC, I) (C-ID PSY

110)

***Change: advisories, catalog description* *effective fall 2019***

5 Social Psychology

3 units, 3 lecture hours, pass/no pass

ADVISORIES: English 1A or 1AH.

This course focuses on a systematic analysis of the social determinants of behavior and mental processes. Emphasis is placed on the perception of ourselves and others; attitudes; roles; compliance, conformity and obedience; attraction; aggression; altruism; behavior in groups; and applied social psychology. (A, CSU-GE, UC, I) (C-ID PSY 170)

***Change: advisories, catalog description* *effective fall 2019***

16 Abnormal Psychology

3 units, 3 lecture hours

ADVISORIES: Psychology 2 or 2H and English 1A or 1AH.

This course introduces the scientific study of psychopathology and atypical behaviors as broadly defined. Students will investigate abnormal behavior from a variety of perspectives including biological, psychological, and sociocultural approaches. An integrative survey of theory and research in abnormal behavior, and intervention and prevention strategies for psychological disorders are also introduced in this course. (A, CSU-GE, UC, I) (C-ID PSY 120)

***Change: advisories* *effective fall 2019***

25 Human Sexuality

3 units, 3 lecture hours, pass/no pass

ADVISORIES: Psychology 2 or 2H and English 1A or 1AH.

This course examines sexual behaviors and values in society from a biological, psychological, social, cultural, historical and lifespan perspective. The course will cover anatomy and physiology of sex, sex within relationships, alternative lifestyles, fertility management, contraception, sexual dysfunction, and social roles/attitudes. Issues such as destructive sexual behavior, rape and incest, paraphilia, and other sensitive subjects will be presented and discussed in an explicit and scientific manner. (A, CSU-GE, UC) (C-ID PSY 130)

***Change: advisories* *effective fall 2019***

38 Lifespan Development

3 units, 3 lecture hours

ADVISORIES: English 1A or 1AH.

Basic theories, research concepts, and principles of physical, cognitive and psychosocial development, including biological and environmental influences, will be explored with a focus on each major stage of life from conception to death. This course is designed to promote critical self-understanding. Students will apply developmental theory to major topics, including developmental problems, that occur throughout one's lifespan. (A, CSU-GE, UC, I) (C-ID PSY 180)

45 Introduction to Research Methods in Psychology

3 units, 3 lecture hours

PREREQUISITES: Psychology 2 or 2H, and Psychology 42 or Mathematics 11 or 11C or Statistics 7 or Plant Science 9. ADVISORIES: English 1A or 1AH.

This course surveys psychological research methods. An emphasis is placed on research design, descriptive techniques, experimental procedures, and the characteristics of valid assessment tools. The course also focuses on the collection, analysis, interpretation, and reporting of research data. Cultural considerations and the ethics of research with human and animal participants will be included. The course is designed for psychology majors and others who require familiarity with such research techniques. (A, CSU-GE, UC, I) (C-ID PSY 200)

# **2019-2020 Catalog Addendum**

## **Effective Summer 2020**

## **COURSE DESCRIPTIONS (pending June 2 BOT meeting)**

**Pages 168-276**

### **GEOGRAPHY (GEOG)**

***Change: lecture hours (compliance of units to hours) effective summer 2020***

**10 INTRODUCTION TO GIS**

3 units, 2.5 lecture hours, 2 lab hours, pass/no pass.

ADVISORIES: English 1A or 1AH, and Mathematics 103 or the equivalent.

Introduction to the fundamental concepts of Geographic Information Systems (GIS), including familiarization with computers, data input, raster GIS, vector GIS, querying, methods of spatial analysis, and applications of GIS. (A, CSU, UC)

### **OFFICE TECHNOLOG (OT)**

*Change: deleted advisory* ***effective summer 2020***

12A Microsoft Excel Essentials

1.5 units, 1.5 lecture hours, .5 lab hours, pass/no pass.

This course is designed for the student who wishes to enter the work force with a basic understanding of Microsoft Excel spreadsheets. Topics will include creating and formatting worksheets, using formulas and functions, and creating graphs. (A, CSU)

*Change: advisories* ***effective summer 2020***

42 Medical Document Preparation

3 units, 3 lecture hours, 1 lab hour, pass/no pass.

ADVISORIES: Office Technology 10.

This course covers health insurance plans, insurance claim forms used in a medical office, and diagnostic and procedural coding. (A, CSU)

### **PHYSICS (PHYS)**

*Change: lecture and lab hours (compliance of units to hours), advisories* ***effective summer 2020***

2A GENERAL PHYSICS I

4 units, 3 lecture hours, 3 lab hours

PREREQUISITES: Mathematics 4A. ADVISORIES: English 1A or 1AH.

The topics covered in this course include mechanics, properties of matter, heat, sound and waves. (A, CSU-GE, UC, I) (C-ID PHYS 105) (C-ID PHYS 100S: PHYS 2A + PHYS 2B)

***Change: lecture and lab hours (compliance of units to hours), advisories effective summer 2020***

2B GENERAL PHYSICS II

4 units, 3 lecture hours, 3 lab hours

PREREQUISITES: Physics 2A. ADVISORIES: English 1A or 1AH.

The topics covered in this course include electricity, magnetism, light, atomic and nuclear physics. (A, CSU-GE, UC, I) (C-ID PHYS 110) (C-ID PHYS 100S: PHYS 2A+PHYS 2B)

***Change: lecture and lab hours (compliance of units to hours), advisories effective summer 2020***

4A PHYSICS FOR SCIENTISTS AND ENGINEERS

4 units, 3 lecture hours, 3 lab hours

COREQUISITES: Mathematics 5B. ADVISORIES: English 1A or 1AH.

The topics covered in this course include: classical mechanics, properties of matter, gravitation, fluid mechanics, oscillatory motion and mechanical waves. (A, CSU-GE, UC, I) (C-ID PHYS 205) (C-ID PHYS 200S: PHYS 4A + PHYS 4B + PHYS 4C)

***Change: lecture and lab hours (compliance of units to hours), advisories effective summer 2020***

4B PHYSICS FOR SCIENTISTS AND ENGINEERS

4 units, 3 lecture hours, 3 lab hours

PREREQUISITES: Physics 4A. COREQUISITES: Mathematics 6. ADVISORIES: English 1A or 1AH.

The topics covered in this course include: Mechanical waves, Thermodynamics, electricity, magnetism. (A, CSU-GE, UC, I) (C-ID PHYS 210) (C-ID PHYS 200S: PHYS 4A + PHYS 4B + PHYS 4C)

***Change: lecture and lab hours (compliance of units to hours), advisories effective summer 2020***

4C PHYSICS FOR SCIENTISTS AND ENGINEERS

4 units, 3 lecture hours, 3 lab hours

PREREQUISITES: Physics 4B. ADVISORIES: Mathematics 17 and English 1A or 1AH.

The topics covered in this course include: electromagnetic waves, optics, modern physics, condensed matter and nuclear physics. (A, CSU-GE, UC, I) (C-ID PHYS 215) (C-ID PHYS 200S: PHYS 4A + PHYS 4B + PHYS 4C)

## **Faculty and Administration**

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Numbers in parenthesis indicate year of appointment at Reedley College.

ABOU NAOUM, MICHELLE M. (2019)

*Biology*

B.S., M.S., California State University

ALVAREZ, JUAN M. (2019)

*Business Administration*

A.S., Reedley College

B.A., M.A., Fresno Pacific University

DELGADO, EMANUEL (2019)

*Geography*

*FRANCIS, ONESTA (2019)*

*Physical Education, Women's Soccer Coach*

HERNANDEZ, ADAM (2019)

*Wildland Fire Technology*