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Revisions to Clovis Community College CSU General Education Breadth 2022-2023

Fall 2022
(Pages 51-52 of 2022-2023 catalog)
Revision: Courses approved for CSU-GE Breadth effective with the Fall 2022 semester.

Area B1: Physical Science
- Geology 4, 6

Area B2: Life Science
- Biology 13

Area B3: Laboratory Activity
- Biology 13L

Area B4: Mathematics/Quantitative Reasoning
- Psychology 42

Area D: Social Sciences
- Ethnic Studies 35, 51

Area F: Ethnic Studies
- Ethnic Studies 32, 35, 51
- History 32

Revisions to University of California Transfer Course Agreement (UCTCA) 2022-2023

Fall 2022
(Page 54 of 2022-2023 catalog)
Revision: Courses approved for UCTCA effective with the Fall 2022 semester.

- Art (ART) 20, 21, 42A
- Biology (BIOL) 13, 13L
- Communication (COMM) 12
- Early Childhood Education (ECE) 7
- Ethnic Studies (ETHNST) 35, 51
- Geology (GEOL) 4, 6
- Psychology (PSY) 42
Revisions to Clovis Community College Intersegmental General Education Transfer Curricula (IGETC) 2022-2023

Fall 2022
(Pages 55-56 of 2022-2023 catalog)

Revision: Courses approved for IGETC effective with the Fall 2022 semester.

Area 2: Mathematical Concepts and Quantitative Reasoning
- Psychology 42

Area 5A: Physical Science
- Geology 4, 6

Area 5B: Biological Science
- Biology 13

Area 5C: Laboratory Activity
- Biology 13L
**Revised Associate Degree and Certificate Programs Table**

Fall 2022

(Pages 77-79 of 2022-2023 catalog)

*Revision: Added new programs:*

<table>
<thead>
<tr>
<th>Program</th>
<th>Type</th>
<th>Major Code</th>
<th>Catalog Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art: Three-Dimensional</td>
<td>AA</td>
<td>C.520B.AA</td>
<td></td>
</tr>
<tr>
<td>Elementary Teacher Level I</td>
<td>CA</td>
<td>C.589A.CA</td>
<td></td>
</tr>
<tr>
<td>Elementary Teacher Level II</td>
<td>CA</td>
<td>C.589B.CA</td>
<td></td>
</tr>
<tr>
<td>Elementary Teacher Level III</td>
<td>CA</td>
<td>C.589C.CA</td>
<td></td>
</tr>
<tr>
<td>Physics</td>
<td>UCTP</td>
<td>C.3665.UCTP</td>
<td></td>
</tr>
</tbody>
</table>

*Correction: Added degree to the table that was previously omitted in error:*

<table>
<thead>
<tr>
<th>Program</th>
<th>Type</th>
<th>Major Code</th>
<th>Catalog Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>AS-T</td>
<td>C.6401.AS-T</td>
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</table>

*Revision: Moved Cyber Security Certificate of Achievement to Information Systems section:*

<table>
<thead>
<tr>
<th>Program</th>
<th>Type</th>
<th>Major Code</th>
<th>Catalog Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Systems: Cyber Security</td>
<td>CA</td>
<td>C.6932.CA</td>
<td></td>
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</tbody>
</table>
New Associate Degree and Certificate Programs

Fall 2022
(Pages 80-155 of 2022-2023 catalog)

ART

ART: THREE DIMENSIONAL
(MAJOR #C.520B.AA)
ASSOCIATE IN ARTS DEGREE

PROGRAM LEARNING OUTCOMES:
A student who successfully completes the Art: Three-Dimensional AA degree will be able to:
1. Apply knowledge of the elements and principles of design to the description and/or production of artwork.
2. Communicate effectively in one or more of the following ways; verbally, written and visually with emphasis on concepts of content and form.
3. Understand the impact of the visual arts in a personal, cultural and global context.
4. Apply knowledge of techniques and media through production and description of artwork.
5. Evaluate and analyze the strengths and weaknesses of an artwork's effectiveness to visually communicate.
6. Solve visual problems through the artistic process.

Catalog Description:
An Art: Three-Dimensional AA degree is designed to provide students with a foundational understanding of visual communication and artistic image making within a three-dimensional format, such as in the media of ceramics and sculpture. Successful completion of this degree will provide the student with a foundation in three-dimensional art-making as well as an introductory level of knowledge in the areas of art history, and a familiarity with digital arts. Students will obtain the skill set necessary to start their own studio practice and/or creative business, work for an art related business, and to be competitive in the local art market. Courses in this degree program will also prepare students for transfer into a four-year art program.

REQUIRED CORE COURSES:
Select 15 units from the following studio arts courses:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name:</th>
<th>Units:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 4</td>
<td>Three-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 7</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 10</td>
<td>Beginning Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 11</td>
<td>Beginning Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 20</td>
<td>Intermediate Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 21</td>
<td>Intermediate Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 53</td>
<td>Color Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 units from the following courses:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name:</th>
<th>Units:</th>
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</thead>
<tbody>
<tr>
<td>ART 5</td>
<td>Art History 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 6</td>
<td>Art History 2</td>
<td>3</td>
</tr>
<tr>
<td>ART 6H</td>
<td>Honors Art History 2</td>
<td>3</td>
</tr>
<tr>
<td>ART 26</td>
<td>Arts of Africa, Oceania, Indigenous North America</td>
<td>3</td>
</tr>
<tr>
<td>PHOTO 1</td>
<td>Introduction to Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>FILM 1</td>
<td>Introduction to Film Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 3 units from the following computer art courses:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name:</th>
<th>Units:</th>
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</thead>
<tbody>
<tr>
<td>ART 37A</td>
<td>Photoshop®: Digital Visual Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 30A</td>
<td>Illustrator®: Beginning Computer Drawing and Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 41A</td>
<td>Computerized Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>ART 42A</td>
<td>Computer Animation/3D</td>
<td>3</td>
</tr>
<tr>
<td>ART 44</td>
<td>Digital Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>ART 54</td>
<td>Introduction to Graphic Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Required course 3 units for completion:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name:</th>
<th>Units:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 43</td>
<td>Independent Projects Studio</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 27

Advisors: S. Dent, Hart, Johnson, King, Ledgerwood
EDUCATION

ELEMENTARY TEACHER LEVEL I
(MAJOR #C.589A.CA)

CERTIFICATE OF ACHIEVEMENT

PROGRAM LEARNING OUTCOMES:
A student who successfully completes this certificate of achievement will be able to:
1. Demonstrate introductory subject matter competency and knowledge of integrated studies found in the Associate in Arts in Elementary Teacher Education for Transfer Degree.
2. Demonstrate effective written and oral communication skills.

Catalog Description:
The Certificate of Achievement in Elementary Teacher Level 1 is designed to prepare students for a variety of entry-level positions in today’s education industry such as teacher assistants, instructional aides, afterschool program teachers, and tutors. Upon completion, students will have developed knowledge of the teaching profession, qualities of effective teachers, foundations of the American education system, and critical issues in diverse contemporary classrooms in accordance with the California Standards for the Teaching Profession. This certificate combines some of the core courses in the Education AA-T including 45 hours of fieldwork. Students who complete this certificate will have also completed the first third of the course requirements of the Associate in Arts in Elementary Teacher Education for Transfer Degree. The Associate in Arts in Elementary Teacher Education for Transfer Degree is intended for students who plan to complete a bachelor’s degree at a CSU campus. Courses in this Level 1 certificate include math, and arts and the humanities, which parallel the common core competencies for the elementary teacher credential known as the Multiple Subject Credential.

To obtain this Certificate of Achievement, students must complete the following requirements:
- Completion of 19 semester units of certificate-applicable courses,
- Minimum overall grade point average of 2.0,
- Minimum grade of “C” (or “P”) for each course in the major.

REQUIRED CORE COURSES: 19 units

<table>
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<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 53</td>
<td>College and Life Management</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 10</td>
<td>Introduction to Teaching</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1A</td>
<td>Reading and Composition</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 1AH</td>
<td>Honors Reading and Composition</td>
<td>4</td>
</tr>
<tr>
<td>ECE 2</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>COMM 1</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM 1H</td>
<td>Honors Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>MATH 10A</td>
<td>Structure and Concepts in Mathematics I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 19

Advisor: Bennett

ELEMENTARY TEACHER LEVEL II
(MAJOR #C.589B.CA)

CERTIFICATE OF ACHIEVEMENT

PROGRAM LEARNING OUTCOMES:
A student who successfully completes this certificate of achievement will be able to:
1. Demonstrate introductory subject matter competency and knowledge of integrated studies found in the Associate in Arts in Elementary Teacher Education for Transfer Degree.
2. Demonstrate effective written and oral communication skills.

Catalog Description:
The Certificate of Achievement in Elementary Teacher Level 2 is designed to prepare students for a variety of entry-level positions in today’s education industry such as teacher assistants, instructional aides, afterschool program teachers, and tutors. Upon completion, students will have developed knowledge of the teaching profession, qualities of effective teachers, foundations of the American education system, and critical issues in diverse contemporary classrooms in accordance with the California Standards for the Teaching Profession. This certificate combines some of the core courses in the Education AA-T. Students who complete both the level 1 and level 2 certificates will have also completed two-thirds of the course requirements of the Associate in Arts in Elementary Teacher Education for Transfer Degree.
The Associate in Arts in Elementary Teacher Education for Transfer Degree is intended for students who plan to complete a bachelor’s degree at a CSU campus. Courses in this Level 2 certificate include sciences, math, and arts and the humanities, which parallel the common core competencies for the elementary teacher credential known as the Multiple Subject Credential.

To obtain this Certificate of Achievement, students must complete the following requirements:

- Completion of 16 semester units of certificate-applicable courses,
- Minimum overall grade point average of 2.0,
- Minimum grade of “C” (or “P”) for each course in the major.

**REQUIRED CORE COURSES: 16 units**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 11</td>
<td>Introduction to Language for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 9</td>
<td>Introduction to Earth Science</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3</td>
<td>Critical Reading and Writing</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>Honors Critical Reading and Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3H</td>
<td>Analytic Writing</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2</td>
<td>Critical Reasoning and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>COMM 25</td>
<td>World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>MATH 10B</td>
<td>Structure and Concepts in Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 20</td>
<td>World History I to 1600</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units: 16**

Advisor: Bennett

---

**ELEMENTARY TEACHER LEVEL III**

(MAJOR #C.589C.CA)

**CERTIFICATE OF ACHIEVEMENT**

**PROGRAM LEARNING OUTCOMES:**

A student who successfully completes this certificate of achievement will be able to:

1. Demonstrate introductory subject matter competency and knowledge of integrated studies found in the Associate in Arts in Elementary Teacher Education for Transfer Degree.
2. Demonstrate effective written and oral communication skills.

**Catalog Description:**

The Certificate of Achievement in Elementary Teacher Level 3 is designed to prepare students for a variety of entry-level positions in today’s education industry such as teacher assistants, instructional aides, afterschool program teachers, and tutors. Upon completion, students will have developed knowledge of the teaching profession, qualities of effective teachers, foundations of the American education system, and critical issues in diverse contemporary classrooms in accordance with the California Standards for the Teaching Profession. This certificate combines some of the core courses in the Education AA-T. Students who complete this certificate will have also completed the course requirements of the Associate in Arts in Elementary Teacher Education for Transfer Degree. The Associate in Arts in Elementary Teacher Education for Transfer Degree is intended for students who plan to complete a bachelor’s degree at a CSU campus. Courses in this Level 3 certificate include sciences, math, and arts and the humanities, which parallel the common core competencies for the elementary teacher credential known as the Multiple Subject Credential.

To obtain this Certificate of Achievement, students must complete the following requirements:

- Completion of 20 semester units of certificate-applicable courses,
- Minimum overall grade point average of 2.0,
- Minimum grade of “C” (or “P”) for each course in the major.
REQUIRED CORE COURSES: 20 units

Course #: Course Name: Units:
BIOL 3 OR BIOL 10 AND BIOL 10L Introduction to Life Science INTRODUCTION TO LIFE SCIENCE LECTURE INTRODUCTION TO LIFE SCIENCE LAB 4 3 1
SCI 1A Introductory Chemical and Physical Science 4
HIST 11 History of the United States to 1877 3
ENGL 1B OR ENGL 1BH Introduction to the Study of Literature Honors Introduction to the Study of Literature 3 3
POLSCI 2 OR POLSCI 2H American Government Honors American Government 3 3
ART 2 OR MUS 12 Art Appreciation Music Appreciation 3 3

Total Units: 20
Advisor: Bennett

Revised Associate Degree and Certificate Programs
FALL 2022
(Pages 80-155 of 2022-2023 catalog)

ART
ART: TWO-DIMENSIONAL
(MAJOR #C.520A.AA)
ASSOCIATE IN ARTS DEGREE

Catalog Description:
The AA degrees in Art at CCC encourage a focused area of study and provide students with the ability to emphasize in a specific genre within the broad field of art. An Art: Two-Dimensional AA degree is designed to provide students with a foundational understanding of visual communication and artistic image making within a two-dimensional format, such as in the media of drawing and painting. Successful completion of this degree will provide the student with a foundation in two-dimensional art-making as well as an introductory level of knowledge in the areas of art history, and a familiarity with digital arts. Students will obtain the skill set necessary to start their own studio practice and/or creative business, work for an art related business, and to be competitive in the local art market. Courses in this degree program will also prepare students for transfer into a four-year art program.

Revised catalog description.

Courses removed from this degree:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART 2</td>
<td>Art Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>ART 13</td>
<td>Beginning Watercolor Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 23</td>
<td>Intermediate Watercolor Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 30B</td>
<td>Illustrator*: Intermediate Computer Drawing and Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 37B</td>
<td>Photoshop*: Intermediate Digital Visual Art</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Revision: Art 26 course title was revised. The title was formerly “Arts of Africa, Oceania, Indigenous North America, and the Pre-Columbian Americas.”

BIOLOGY
LIFE SCIENCE
(MAJOR #C.6102.AS)
ASSOCIATE IN SCIENCE DEGREE

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4C</td>
<td>Physics for Scientists and Engineers III</td>
<td>4</td>
</tr>
</tbody>
</table>

Course titles were revised. PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”
COMPUTER SCIENCE

ASSOCIATE IN SCIENCE DEGREE

Course # | Course Name | Units
---|---|---
PHYS 4A | Physics for Scientists and Engineers I | 4
PHYS 4B | Physics for Scientists and Engineers II | 4

Course titles were revised. PHYS 4A and 4B were formerly “Physics for Scientists and Engineers.”

COUNSELING

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH

CERTIFICATE OF ACHIEVEMENT

Course # | Course Name | Units
---|---|---
ART 26 | Arts of Africa, Oceania, Indigenous North America | 3
HIST 35 | A Survey of the History of East Asia | 3
PHYS 4A | Physics for Scientists and Engineers I | 4
PHYS 4B | Physics for Scientists and Engineers II | 4
PHYS 4C | Physics for Scientists and Engineers III | 4

Course titles were revised. ART 26 was formerly “Arts of Africa, Oceania, Indigenous North America, and the Pre-Columbian Americas.” HIST 35 was formerly “History of East Asia: A Survey.” PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”

ENGINEERING

CIVIL ENGINEERING

ASSOCIATE IN SCIENCE DEGREE

Course # | Course Name | Units
---|---|---
PHYS 4A | Physics for Scientists and Engineers I | 4
PHYS 4B | Physics for Scientists and Engineers II | 4
PHYS 4C | Physics for Scientists and Engineers III | 4

Course titles were revised. PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”

CIVIL ENGINEERING

CERTIFICATE OF ACHIEVEMENT

Course # | Course Name | Units
---|---|---
PHYS 4A | Physics for Scientists and Engineers I | 4
PHYS 4B | Physics for Scientists and Engineers II | 4
PHYS 4C | Physics for Scientists and Engineers III | 4

Course titles were revised. PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM

CERTIFICATE OF ACHIEVEMENT

Course # | Course Name | Units
---|---|---
ART 26 | Arts of Africa, Oceania, Indigenous North America | 3
HIST 35 | A Survey of the History of East Asia | 3
PHYS 4A | Physics for Scientists and Engineers I | 4
PHYS 4B | Physics for Scientists and Engineers II | 4
PHYS 4C | Physics for Scientists and Engineers III | 4

Course titles were revised. ART 26 was formerly “Arts of Africa, Oceania, Indigenous North America, and the Pre-Columbian Americas.” HIST 35 was formerly “History of East Asia: A Survey.” PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”

COMPUTER OR SOFTWARE ENGINEERING

ASSOCIATE IN SCIENCE DEGREE

Course # | Course Name | Units
---|---|---
PHYS 4A | Physics for Scientists and Engineers I | 4
PHYS 4B | Physics for Scientists and Engineers II | 4
PHYS 4C | Physics for Scientists and Engineers III | 4

Course titles were revised. PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”
### COMPUTER OR SOFTWARE ENGINEERING
(MAJOR #C.3013.CA)
CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
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</tr>
<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4C</td>
<td>Physics for Scientists and Engineers III</td>
<td>4</td>
</tr>
</tbody>
</table>

*Course titles were revised. PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”*

### ELECTRICAL ENGINEERING
(MAJOR #C.3012.AS)
ASSOCIATE IN SCIENCE DEGREE

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4C</td>
<td>Physics for Scientists and Engineers III</td>
<td>4</td>
</tr>
</tbody>
</table>

*Course titles were revised. PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”*

### ELECTRICAL ENGINEERING
(MAJOR #C.3012.CA)
CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4C</td>
<td>Physics for Scientists and Engineers III</td>
<td>4</td>
</tr>
</tbody>
</table>

*Course titles were revised. PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”*

### MECHANICAL, AEROSPACE, OR MANUFACTURING ENGINEERING
(MAJOR #C.3014.AS)
ASSOCIATE IN SCIENCE DEGREE

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4C</td>
<td>Physics for Scientists and Engineers III</td>
<td>4</td>
</tr>
</tbody>
</table>

*Course titles were revised. PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”*

### MECHANICAL, AEROSPACE, OR MANUFACTURING ENGINEERING
(MAJOR #C.3014.CA)
CERTIFICATE OF ACHIEVEMENT

<table>
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<th>Course Name</th>
<th>Units</th>
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<tbody>
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<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4C</td>
<td>Physics for Scientists and Engineers III</td>
<td>4</td>
</tr>
</tbody>
</table>

*Course titles were revised. PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”*

### LIBERAL ARTS AND SCIENCES
NATURAL SCIENCES
(MAJOR #C.5130.AA)
ASSOCIATE IN SCIENCE DEGREE

<table>
<thead>
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<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4C</td>
<td>Physics for Scientists and Engineers III</td>
<td>4</td>
</tr>
</tbody>
</table>

*Course titles were revised. PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”*
### LIBERAL STUDIES

**LIBERAL STUDIES**

**(MAJOR #C.5890.AA)
ASSOCIATE IN ARTS DEGREE**

*Existing courses added to this degree:*

<table>
<thead>
<tr>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 12</td>
<td>History of the United States Since 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIST 12H</td>
<td>Honors History of the United States Since 1865</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1</td>
<td>Contemporary Health Issues</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2H</td>
<td>Honors General Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

### PHYSICAL EDUCATION

**PHYSICAL EDUCATION**

**(MAJOR #C.4200.AA)
ASSOCIATE IN ARTS DEGREE**

*Courses deactivated and removed from this degree:*

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 2</td>
<td>Aerobics (Dance, Step, or Water)</td>
<td>1</td>
</tr>
<tr>
<td>PE 8</td>
<td>Martial Arts/Self Defense</td>
<td>1</td>
</tr>
<tr>
<td>PE 18</td>
<td>Floor Exercises</td>
<td>1</td>
</tr>
<tr>
<td>PE 19B</td>
<td>Advanced Weight Training and Aerobics</td>
<td>1</td>
</tr>
</tbody>
</table>

*Existing courses added to this degree:*

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 12A</td>
<td>Ballet</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 15</td>
<td>Intermediate Jazz Dance Technique</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 28</td>
<td>Intermediate Modern Dance Technique</td>
<td>1</td>
</tr>
<tr>
<td>PE 32B</td>
<td>Competitive Cross-Country</td>
<td>3</td>
</tr>
<tr>
<td>PE 32C</td>
<td>Off-Season Conditioning for Cross-Country</td>
<td>1</td>
</tr>
<tr>
<td>PE 36B</td>
<td>Competitive Soccer</td>
<td>3</td>
</tr>
<tr>
<td>PE 36C</td>
<td>Off-Season Conditioning for Soccer</td>
<td>1</td>
</tr>
<tr>
<td>PE 36D</td>
<td>Athletic Recovery</td>
<td>0.5</td>
</tr>
<tr>
<td>PE 39B</td>
<td>Competitive Track and Field</td>
<td>3</td>
</tr>
<tr>
<td>PE 43C</td>
<td>Off-Season Conditioning for Swimming</td>
<td>1</td>
</tr>
<tr>
<td>PE 49</td>
<td>Weight Training for Collegiate Athletes</td>
<td>1</td>
</tr>
</tbody>
</table>

*Additional Revisions: PE 7, 12, and 12B unit values were increased from .5 to 1.*
New Associate Degrees for Transfer

FALL 2022
(Pages 80-155 of 2022-2023 catalog)

BUSINESS ADMINISTRATION

ASSOCIATE IN SCIENCE IN BUSINESS ADMINISTRATION FOR TRANSFER DEGREE 2.0
(MAJOR #C.2051.AS-T)
This Associate in Science in Business Administration for Transfer 2.0 (AS-T) Degree is intended to meet the lower division requirements for Business Administration for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a Clovis counselor for program planning and course selection. Upon completion of this Associate in Science in Business Administration for Transfer (AS-T) Degree, students will be prepared for employment in business and industry as an entry-level analyst, office clerk/assistant, assistant bookkeeper, bank teller, data entry-clerk, and accounting clerk. Most common career opportunities with a baccalaureate degree include: administration in public and private organizations, marketing, manufacturing, accounting, and divisions within those organizations.

PROGRAM LEARNING OUTCOMES:
1. Define Business, list the five functions of business, and describe each function.
2. Utilize effective oral communication skills in a variety of situations (including one-on-one and group presentations) and using a variety of formats.
3. Write effective business letters, memos, research papers, and other documents.
4. Conduct research using a variety of resources including published documents and web-based resources.
5. Effectively and efficiently use technology (commonly used computers and software) as it relates to the world of business.
6. Discuss the basic accounting concepts and financial statements used regularly in business.
7. List and describe the major forces influencing human behavior in the workplace.

Students completing the Associate in Science in Business Administration for Transfer Degree 2.0 will be able to seamlessly transfer into the CSU system to pursue a baccalaureate degree in Business Administration. Students completing this degree will have an introductory foundation for the field of Business Administration through the study of accounting, computers, economics, law, and statistics or quantitative methods, and students will acquire specific analytical and problem-solving skills needed in the business environment. This degree is specifically intended to facilitate a seamless transfer into the CSU system, but it also provides the preparation necessary for immediate employment in the fields of entry-level analyst, office clerk/assistant, assistant bookkeeper, bank teller, data entry-clerk, and accounting clerk.

To obtain this transfer degree, students must complete the following requirements (pursuant to SB1440 §66746 and CCR, title 5, §55063):
- Completion of 60 semester units or 90 quarter units of degree-applicable courses,
- Minimum overall grade point average of 2.0,
- Minimum grade of “C” (or “P”) for each course in the major, and
- Completion of IGETC and/or CSU GE-Breadth.

Required Core Courses:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCTG 4A</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCTG 4B</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA 10</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BA 18</td>
<td>Business and the Legal Environment</td>
<td>4</td>
</tr>
<tr>
<td>BA 39</td>
<td>Finite Mathematics for Business</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 5A</td>
<td>Math Analysis I</td>
<td>5</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 11</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 7</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units for the Major: 28-30

Advisors: Alanis, Brown
PHYSICS

ASSOCIATE IN SCIENCE IN PHYSICS FOR UC TRANSFER DEGREE
(MAJOR #C.3665.UCTP)

In April 2018 the California Community Colleges (CCC) and University of California (UC) signed a Memorandum of Understanding (MOU) to enhance student transfer rates and improve the academic preparation of CCC students transferring to the UC system. The MOU began a comprehensive effort to develop programs which guarantee admission for all qualified CCC students seeking to transfer to the UC system. The University of California Transfer Pathways (UCTP) Guarantee pilot project in chemistry and physics is part of that effort.

The UCTP fulfills important priorities shared by the two systems:

Expanding access, especially at CCC campuses that traditionally have low transfer rates into the UC system. A key component of California’s Master Plan and the Vision for Success is providing students transfer routes to four-year degrees, thereby enhancing California’s workforce. By developing guarantees of admission based on Transfer Pathways, and promoting Associate degrees built on those Pathways, the two systems can change the perception among many CCC students that transferring to the UC system is an unrealistic goal. Guaranteed admission into the UC system (with a minimum 3.5 GPA) is therefore a major benefit to the UC Transfer Pathway. Note that like the Associate Degrees for Transfer (ADTs) created for the CSU system, UCTP guarantees admission into the UC system, but not necessarily to the student’s first choice among the UC campuses.

Timely Degree Completion: thorough academic preparation is key to timely degree completion after transfer. Students who follow a UC Transfer Pathway and then maintain a full-time load after reaching their UC school can graduate within two years, as they will have completed the important lower-division courses needed to earn a degree in physics or chemistry.

The UCTP Physics is a degree for students seeking to transfer to a University of California campus as a physics major. This major will provide students with a full two years of physics education as well as a strong foundation in math and chemistry. Students who complete the UCTP Physics degree (with a minimum 3.5 GPA) will be guaranteed admission to the UC system. Upon completion of college-wide graduation requirements and the required specialized degree courses with at least a ‘C’ grade in each course, the student will be awarded an Associate of Science degree.

PROGRAM LEARNING OUTCOMES:

1. Apply the Laws of Physics, physical concepts, and mathematical knowledge to solve problems in physics.
2. Demonstrate skill in scientific communication (both written and oral) by describing the results of laboratory experiments, and by providing other technical information, in a clear and concise manner.
3. Use experimental techniques in the laboratory to obtain accurate and precise data, to validate scientific theories, and to evaluate and properly use scientific instruments.
4. Prepare students for seamless transfer to a UC as a Physics major, or in a related field.
5. Provide students with a core body of knowledge for understanding physics.
6. Prepare students for advanced studies in the field of physics.

Catalog Description:
The UCTP Physics is a degree for students seeking to transfer to a University of California campus as a physics major. This major will provide students with a full two years of physics education as well as a strong foundation in math and chemistry. Students who complete the UCTP Physics degree (with a minimum 3.5 GPA) will be guaranteed admission to the UC system. Upon completion of college-wide graduation requirements and the required specialized degree courses with at least a ‘C’ grade in each course, the student will be awarded an Associate of Science degree.

Students should consult with a counselor for more information on university admission and transfer requirements, as this degree in physics may not be the best option for students intending to transfer to a particular UC campus or to a college or university that is not part of the UC system.

UCTP Physics degree, students must fulfill the following:

• Complete 41 semester units in Physics major preparation and IGETC* courses, as prescribed below.
• Achieve a cumulative minimum grade point average of 3.5 in the major. (Students who earn less than a 3.5 GPA in UC transferable courses will still meet the associate degree graduation requirement, but will not receive guaranteed admission into a UC).

• Achieve a “C” grade or better, or “P”, in all courses required for the major. Although a “P” grade is allowed (Title 5 section 55063), it is highly recommended that students take the course for a letter grade (A, B, or C) due to unit limitations on “P/NP” courses by the UC system.

• Complete a minimum of 12 units in residence at Clovis Community College.

*NOTE: The degree allows for the deferment of two courses in Area 3 (Arts and Humanities) and two courses in Area 4 (Social Science) of the IGETC. These are to be completed at the UC, once transferred.

**Required Core Courses:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4C</td>
<td>Physics for Scientists and Engineers III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 5A</td>
<td>Math Analysis I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 5B</td>
<td>Math Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 6</td>
<td>Math Analysis III</td>
<td>5</td>
</tr>
<tr>
<td>MATH 17</td>
<td>Differential Equations and Linear Algebra</td>
<td>5</td>
</tr>
</tbody>
</table>

**Total Units for the Major:** 41

*Advisors: Abbott, Inan*
Revised and Corrected
Associate Degrees for Transfer
FALL 2022
(Pages 80-155 of 2022-2023 catalog)

ART
ASSOCIATE IN ARTS IN ART HISTORY FOR TRANSFER DEGREE
(MAJOR #C.5204.AA-T)

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>ART 26</td>
<td>Arts of Africa, Oceania, Indigenous North America</td>
<td>3</td>
</tr>
</tbody>
</table>

*Course title was revised. ART 26 was formerly “Arts of Africa, Oceania, Indigenous North America, and the Pre-Columbian Americas.”*

ASSOCIATE IN ARTS IN STUDIO ARTS FOR TRANSFER DEGREE
(MAJOR #C.5203.AA-T)

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART 26</td>
<td>Arts of Africa, Oceania, Indigenous North America</td>
<td>3</td>
</tr>
</tbody>
</table>

*Course title was revised. ART 26 was formerly “Arts of Africa, Oceania, Indigenous North America, and the Pre-Columbian Americas.”*

BIOLOGY
ASSOCIATE IN SCIENCE IN BIOLOGY FOR TRANSFER DEGREE
(MAJOR #C.6101.AS-T)

ASSOCIATE IN SCIENCE DEGREE

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
</tbody>
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*Course titles were revised. PHYS 4A and 4B were formerly “Physics for Scientists and Engineers.”*

CHEMISTRY
ASSOCIATE IN SCIENCE IN CHEMISTRY FOR UC TRANSFER DEGREE
(MAJOR #C.6400.UCTP)

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4C</td>
<td>Physics for Scientists and Engineers III</td>
<td>4</td>
</tr>
</tbody>
</table>

*Course titles were revised. PHYS 4A, 4B, and 4C were formerly “Physics for Scientists and Engineers.”*

ASSOCIATE IN SCIENCE IN CHEMISTRY FOR TRANSFER DEGREE
(MAJOR #C.6401.AS-T)

<table>
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<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
</tbody>
</table>

*Course titles were revised. PHYS 4A and 4B were formerly “Physics for Scientists and Engineers.”*
HISTORY
ASSOCIATE IN ARTS IN HISTORY FOR TRANSFER DEGREE
(MAJOR #C.7380.AA-T)

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 26</td>
<td>Arts of Africa, Oceania, Indigenous North America</td>
<td>3</td>
</tr>
</tbody>
</table>

Course title was revised. ART 26 was formerly “Arts of Africa, Oceania, Indigenous North America, and the Pre-Columbian Americas.”

Existing courses added to this degree:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HIST 31</td>
<td>A Survey of the History of Africa</td>
<td>3</td>
</tr>
<tr>
<td>HIST 32</td>
<td>A History of Mexican American People</td>
<td>3</td>
</tr>
<tr>
<td>HIST 33</td>
<td>A Survey of Latin American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 35</td>
<td>A Survey of the History of East Asia</td>
<td>3</td>
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Additional revision: Course title of HIST 35 was revised. The title was formerly “History of East Asia: A Survey.”

Existing courses removed from this degree only:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 36B</td>
<td>Competitive Soccer</td>
<td>3</td>
</tr>
<tr>
<td>PE 36C</td>
<td>Off-Season Conditioning for Soccer</td>
<td>1</td>
</tr>
<tr>
<td>PE 43B</td>
<td>Competitive Swimming and Diving</td>
<td>3</td>
</tr>
<tr>
<td>PE 43C</td>
<td>Off-Season Conditioning for Swimming</td>
<td>1</td>
</tr>
<tr>
<td>PE 45</td>
<td>Performance Training &amp; Conditioning Techniques for Intercollegiate Athletics</td>
<td>1-2</td>
</tr>
<tr>
<td>PE 49</td>
<td>Weight Training for Collegiate Athletes</td>
<td>1</td>
</tr>
</tbody>
</table>

Existing courses added to this degree:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3A</td>
<td>Introductory General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>DANCE 12A</td>
<td>Ballet</td>
<td>1</td>
</tr>
</tbody>
</table>

Course title was revised. PHYS 4A was formerly “Physics for Scientists and Engineers.”

Additional Revisions: PE 7, 12, and 12B unit values were increased from .5 to 1.

KINESIOLOGY
ASSOCIATE IN ARTS IN KINESIOLOGY FOR TRANSFER DEGREE
(MAJOR #C.1270.AA-T)

Courses deactivated and removed from this degree:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 2</td>
<td>Aerobics (Dance, Step, or Water)</td>
<td>1</td>
</tr>
<tr>
<td>PE 8</td>
<td>Martial Arts/Self Defense</td>
<td>1</td>
</tr>
<tr>
<td>PE 18</td>
<td>Floor Exercises</td>
<td>1</td>
</tr>
<tr>
<td>PE 19B</td>
<td>Advanced Weight Training and Aerobics</td>
<td>1</td>
</tr>
</tbody>
</table>

Existing courses removed from this degree only:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 36B</td>
<td>Competitive Soccer</td>
<td>3</td>
</tr>
<tr>
<td>PE 36C</td>
<td>Off-Season Conditioning for Soccer</td>
<td>1</td>
</tr>
<tr>
<td>PE 43B</td>
<td>Competitive Swimming and Diving</td>
<td>3</td>
</tr>
<tr>
<td>PE 43C</td>
<td>Off-Season Conditioning for Swimming</td>
<td>1</td>
</tr>
<tr>
<td>PE 45</td>
<td>Performance Training &amp; Conditioning Techniques for Intercollegiate Athletics</td>
<td>1-2</td>
</tr>
<tr>
<td>PE 49</td>
<td>Weight Training for Collegiate Athletes</td>
<td>1</td>
</tr>
</tbody>
</table>

Existing courses added to this degree:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3A</td>
<td>Introductory General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>DANCE 12A</td>
<td>Ballet</td>
<td>1</td>
</tr>
</tbody>
</table>

Course title was revised. PHYS 4A was formerly “Physics for Scientists and Engineers.”

Additional Revisions: PE 7, 12, and 12B unit values were increased from .5 to 1.

MATHEMATICS
ASSOCIATE IN SCIENCE IN MATHEMATICS FOR TRANSFER DEGREE
(MAJOR #C.6200.AS-T)

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
</tbody>
</table>

Course title was revised. PHYS 4A was formerly “Physics for Scientists and Engineers.”
PHYSICS
ASSOCIATE IN SCIENCE IN PHYSICS FOR TRANSFER DEGREE
(MAJOR #C.3664.AS-T)

Catalog Description:
Physics is the experimental investigation and theoretical explanation of physical phenomena, including motion, matter, energy, and the fundamental forces of nature. The program at Clovis Community College prepares students for transfer in the physical sciences, engineering, computer science, and the life sciences. Kinematics, Newtonian dynamics, gravity, fluids, waves, sound, thermodynamics, electricity, magnetism and optics are emphasized. Important topics from modern physics are also covered: relativity, quantum mechanics, and atomic and nuclear physics.

A physics student acquiring the Associate in Science Degree in Physics for Transfer (AS-T in Physics) generally transfers to a four-year institution to complete a bachelor’s degree. Physics graduates at the bachelors’ level are qualified for a variety of technical positions with government or industry, and they are also well prepared to enter a graduate program in any other science or in engineering. Physics majors are welcomed into professional programs such as law, business, or medicine. Teaching at the high school level with a bachelor’s degree or at a two-year college with a masters’ degree are additional career options for the physics major. For the physicist who obtains the Ph.D., experimental or theoretical research and/or teaching at the university level or basic research in government or industry are options for gainful employment.

Many four-year colleges and universities offer bachelor’s degrees in physics. There are some systems and institutions that offer the advanced degrees in physics. Requirements vary from system to system and from campus to campus for each level of degree. The advice of a counselor and consultation of institutional catalogs for specific information is highly recommended.

To obtain the Associate in Science Degree in Physics for Transfer (AS-T in Physics), students must complete the following requirements
- Completion of 60 semester units or 90 quarter units of degree-applicable courses,
- Minimum overall grade point average of 2.0,
- Minimum grade of “C” (or “P”) for each course in the major, and
- Completion of IGETC and/or CSU GE-Breadth.

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 not an acceptable grade for courses in the major.

Revised catalog description.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
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<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
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<tr>
<td>PHYS 4C</td>
<td>Physics for Scientists and Engineers III</td>
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</table>

Course titles were revised. PHYS 4A and 4B were formerly “Physics for Scientists and Engineers.”

SOCIAL JUSTICE STUDIES
ASSOCIATE IN ARTS IN SOCIAL JUSTICE STUDIES FOR TRANSFER DEGREE
(MAJOR #C.7611.AA-T)

<table>
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<tr>
<th>Course #</th>
<th>Course Name</th>
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<td>ART 26</td>
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Course title was revised. ART 26 was formerly “Arts of Africa, Oceania, Indigenous North America, and the Pre-Columbian Americas.”

18
Course Descriptions: New Courses
Fall 2022
(Pages 159-222 of 2022-2023 catalog)

ART (ART)

20 INTERMEDIATE CERAMICS
3 units, 2 lecture hours, 4 lab hours.
PREREQUISITE: Art 10. ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Intermediate level exploration of ceramics materials, concepts and processes. This course focuses on aesthetics and individual creative development through guided practice and lecture related to historical, contemporary and personal modes of expression across cultures. (A, CSU)

21 INTERMEDIATE SCULPTURE
3 units, 2 lecture hours, 4 lab hours.
PREREQUISITE: Art 11. ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Intermediate level exploration of sculptural principles, techniques and concepts utilizing a wide range of materials and practices. This course focuses on individual creative development through guided practice and lecture. Sculptural materials may include but not limited to clay, metal, wood, plaster, fiber, metal, mixed media, found materials, installation and digital technology such as 3D printing and scanning. (A, CSU)

MATH (MATH)

303 MATH REVIEW FOR STEM PATHWAY
54 Lecture hours. No credit
Category: Elementary and Secondary Basic Skills. (Pass/No Pass) (Retakes = unlimited)
This is a review of the mathematical concepts from Intermediate Algebra, Beginning Algebra, and Prealgebra are intended to prepare students for Math 4A and the STEM pathway.

311 MATH REVIEW FOR NON-STEM PATHWAY
54 Lecture hours. No credit
Category: Elementary and Secondary Basic Skills. (Pass/No Pass) (Retakes = unlimited)
This course helps students review math skills necessary for taking either Math 45, Math 11, or Math 10A. The course covers arithmetic with fractions, decimals, interpreting and creating graphs, problem solving, and basic geometry.

MUSIC (MUS)

1A MUSIC THEORY I
3 units, 3 lecture hours.
CO-REQUISITE: Music 7A. ADVISORY: Eligibility for English 1A or 1AH.
Introduction to the notation and primary elements of tonal music through guided composition and analysis. Examples from western and global music literature demonstrate staff notation in treble and bass clefs, rhythm, and meter; basic properties of sound; intervals; diatonic scales and triads; and diatonic chords. History and social context of the above concepts are discussed. Complete cadential formulae, phrase structure analysis, chord function theory, and four-part voice-leading principles are covered. (A, CSU)

1B MUSIC THEORY II
3 units, 3 lecture hours.
PREREQUISITE: Music 1A. CO-REQUISITE: Music 7B. ADVISORY: Eligibility for English 1A or 1AH.
This course incorporates the concepts from Music Theory I. Writing and analysis; functional tonality, harmonization, diatonic and dominant seventh chords, and secondary function. Designed for the music major. (A, CSU)

2A MUSIC THEORY III
3 units, 3 lecture hours.
PREREQUISITE: Music 1B. CO-REQUISITE: Music 7C. ADVISORY: Eligibility for English 1A or 1AH.
This course incorporates the concepts from Music Theory II. Through guided composition and analysis, the course includes more advanced chromatic chord functions and voice-leading, including 2 voice counterpoint and fugue with an emphasis on classical and early romantic periods. Designed for the music major. (A, CSU)
2B MUSIC THEORY IV
3 units, 3 lecture hours.
PREREQUISITE: Music 2A. CO-REQUISITE: Music 7D.
ADVISORY: Eligibility for English 1A or 1AH.
This course incorporates the concepts from Music Theory III. Through guided composition and analysis, the course includes late Romantic, neo-Romantic, and Modernist harmonic and rhythmic structures and techniques, including serial procedures and indeterminacy. Designed for the music major. (A, CSU)

7A EAR TRAINING: LEVEL I
1 unit, 1 lecture hour, 1 lab hour.
CO-REQUISITE: Music 1A. ADVISORY: Eligibility for English 1A or 1AH.
This course applies and develops the rhythmic, melodic, and harmonic materials of Music Theory I through ear training, sight singing, analysis, and dictation. (A, CSU)

7B EAR TRAINING: LEVEL II
1 unit, 1 lecture hour, 1 lab hour.
PREREQUISITE: Music 7A. CO-REQUISITE: Music 1B. ADVISORY: Eligibility for English 1A or 1AH.
This course applies and develops the rhythmic, melodic, and harmonic materials of Music Theory II through ear training, sight singing, analysis, and dictation. (A, CSU)

7C EAR TRAINING: LEVEL III
1 unit, 1 lecture hour, 1 lab hour.
PREREQUISITE: Music 7B. CO-REQUISITE: Music 2A. ADVISORY: Eligibility for English 1A or 1AH.
This course applies and develops the rhythmic, melodic, and harmonic materials of Music Theory III through ear training, sight singing, analysis, and dictation. (A, CSU)

7D EAR TRAINING IV
1 unit, 1 lecture hour, 1 lab hour.
PREREQUISITE: Music 7C. CO-REQUISITE: Music 2B. ADVISORY: Eligibility for English 1A or 1AH.
This course applies and develops the rhythmic, melodic, and harmonic materials of Music Theory IV through ear training, sight singing, analysis, and dictation. (A, CSU)

20 BEGINNING PIANO: LEVEL I
2 units, 1 lecture hour, 3 lab hours.
ADVISORY: Eligibility for English 1A or 1AH. (Pass/No Pass)
This course is an introduction to beginning keyboard skills, including notation. It includes basic technique, major and minor five finger patterns, major scales, sight reading and basic chord progressions, as they are encountered in beginning piano music. Not intended for students who have had previous piano instruction. (A, CSU)

21 BEGINNING PIANO: LEVEL II
2 units, 1 lecture hour, 3 lab hours.
PREREQUISITE: Music 20. ADVISORY: Eligibility for English 1A or 1AH. (Pass/No Pass)
In this course students refine and further develop beginning keyboard skills. This includes piano technique, major scales and arpeggios, sight-reading, chord progressions and harmonization and transposition skills, as encountered in upper-beginning/early intermediate piano music. This includes baroque, classic, romantic, 20th century literature and world music literature as appropriate to the students development level. (A, CSU)

22 INTERMEDIATE/ADVANCED PIANO
1-2 units, 1 lecture hour, 1-3 lab hours.
PREREQUISITE: Music 21. ADVISORY: Eligibility for English 1A or 1AH. (Retakes = 3)
This course allows students to refine and develop beginning keyboard skills. Piano technique, major and minor scales and arpeggios, sight-reading, expanded chord progressions, and harmonization and transposition skills are encountered in intermediate piano music. Students also learn technical, stylistic and aesthetic elements of the performing repertory from the standard literature of piano solo and ensemble music. Weekly individual instruction: ensemble and solo performance required. Students are required to perform solo juries in front of faculty each semester. Please consult instructor regarding variable units. (A, CSU)
PHYSICS (PHYS)

272 ASSISTANCE IN PHYSICS
1 unit, 3 lab hours. (Pass/No Pass Only)
This course is intended for any student who needs assistance with physics problem-solving for homework and lab assignments, and is open to any currently-enrolled physics student. Students learn concepts, critical thinking, study strategies, and problem solving techniques for physics. Students develop, improve, and refine their physics knowledge and skills through guided practice in a lab setting.

Course Descriptions:
Deactivated Courses

Fall 2022
(Pages 159-222 of 2022-2023 catalog)

COUNSELING (COUN)

263 LEADERSHIP DEVELOPMENT
1.5 units, 1 lecture hour, 1.5 lab. Pass/No Pass
A course designed to introduce students to theory, principles, and techniques of leadership. Students will develop practical skills in parliamentary procedures, budgeting, and activity planning through active participation in Associated Student Government.

PHYSICAL EDUCATION (PE)

2 AEROBICS (DANCE, STEP OR WATER)
1 unit, 3 lab hours. (Pass/No Pass)
This course is designed to improve cardiorespiratory endurance, muscular endurance and flexibility using a variety of aerobic activities. Exercises include dance, step, or water aerobics. (Swimming skills not required). (A, CSU, UC)

8 MARTIAL ARTS/SELF DEFENSE
1 unit, 3 lab hours. (Pass/No Pass)
This course helps individuals develop the confidence and the skill necessary to defend themselves against deliberate, aggressive assault. It incorporates the mental and physical skills of basic self-defense. (A, CSU, UC)

18 FLOOR EXERCISES
1 unit, 3 lab hours. (Pass/No Pass)
This course is designed to help students to understand, practice, and improve upon the five components of fitness: muscular endurance, muscular strength, cardiovascular fitness, flexibility, and body composition. Class objectives will center around the basic principles of physical training: specificity, overload, reversibility and individual differences. Students will learn proper exercise techniques, how to use various types of fitness equipment, and overall safety. (A, CSU, UC)

19B ADVANCED WEIGHT TRAINING AND AEROBICS
1 unit, 3 lab hours. (Pass/No Pass)
This course is designed to help students understand, develop, and improve upon all components of physical fitness through resistance and aerobic training, use of free weights, weight machines, and cardio-respiratory equipment. This is an intermediate fitness class with experience in weight training and aerobics required by students. Components of physical fitness which will be emphasized are: muscular endurance, muscular strength, cardio-respiratory endurance, flexibility, and body composition. (A, CSU, UC)
Course Descriptions: Revised Courses

Fall 2022
(Pages 159-222 of 2022-2023 catalog)

ANTHROPOLOGY (ANTHRO)

13 ANTHROPOLOGY OF MAGIC, WITCHCRAFT, AND RELIGION
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A or Interdisciplinary Studies 251. (Pass/No Pass)
Added CSU-GE and I designations to catalog description.

ART (ART)

26 ARTS OF AFRICA, OCEANIA, INDIGENOUS NORTH AMERICA
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Art 26 is a survey of the art outside the western European tradition, focusing on the major artistic traditions of Africa, Oceania, Indigenous North America, from ancient times up to the impact of European contact. The course focuses on the role of the visual arts in non-western cultural perspectives, including discussion of sacred ritual, social and cultural constructs, materials, and artistic creation. Emphasis is placed on the recognition of works from major civilizations, their artistic traditions, and what can be revealed about the cultures and peoples who created them from historical and cultural viewpoints. Course content includes the availability of a trip to an internationally recognized art venue. (A, CSU, CSU-GE, UC, I)

BIOLOGY (BIOL)

13 ENVIRONMENTAL SCIENCE LECTURE
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Added CSU-GE, UC, and I designations to catalog description.

3L ENVIRONMENTAL SCIENCE LAB
1 unit, 3 lab hours.
CO-REQUISITE: Biology 13. ADVISORY: Eligibility for English 1A and Mathematics 201.
Added CSU-GE, UC, and I designations to catalog description.

BUSINESS ADMINISTRATION (BA)

39 FINITE MATHEMATICS FOR BUSINESS
3 units, 3 lecture hours.
PREREQUISITE: Mathematics 103. ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Added I designation to catalog description.

CHEMISTRY (CHEM)

3B INTRODUCTORY ORGANIC AND BIOLOGICAL CHEMISTRY
4 units, 3 lecture hours, 3 lab hours.
PREREQUISITES: Chemistry 1A or 3A or equivalent. ADVISORY: English 1A. (Pass/No Pass)
Added I designation to catalog description.

COMMUNICATION (COMM)

2 INTERPERSONAL COMMUNICATION
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A or English 1AH. (Pass/No Pass)
Added I designation to catalog description.

DANCE (DANCE)

9 DANCE CONDITIONING
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”
10 MODERN DANCE
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This course is designed to teach modern dance exercises and improvisations involving body movement, rhythm, design, dynamics, technique, and expression. Students learn body conditioning exercises for posture, strength, and flexibility. (A, CSU, UC)

Corrected course description and changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

2A BALLET
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This course introduces the fundamental technique of classical Ballet using barre exercises and center work. Students learn basic concepts of ballet dance vocabulary and ballet terminology for the beginning student. (A, CSU, UC)

Added Grade Option of letter grade methods and revised course description.

14 BEGINNING JAZZ DANCE
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This course is a study of contemporary dance style, modified from ballet and modern dance. Students utilize basic steps and isolated body parts; conditioning exercises for strength, flexibility, balance, and alignment done in a rhythmic form to jazz and other contemporary music. (A, CSU, UC)

Corrected course description and changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

15 INTERMEDIATE JAZZ DANCE TECHNIQUE
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Dance 15 is a progressive refinement of jazz dance technique, building upon skills and techniques covered in Dance 14. Students utilize basic and intermediate steps and isolated body parts; conditioning exercises for strength, flexibility, balance, and alignment done in a rhythmic form to jazz and other contemporary music. (A, CSU, UC)

Corrected course description and changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

28 INTERMEDIATE MODERN DANCE
TECHNIQUE
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)

Changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

ETHNIC STUDIES (ETHNST)

32 HISTORY OF THE MEXICAN AMERICAN PEOPLE (SAME AS HISTORY 32)
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)

Added CSU-GE designation to catalog description.

35 INTRODUCTION TO ASIAN-AMERICAN STUDIES
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)

Added CSU-GE designation to catalog description.

51 INTRODUCTION TO AFRICAN AMERICAN STUDIES
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)

Added CSU-GE designation to catalog description.

GEOLOGY (GEOL)

2WL HISTORICAL GEOLOGY WITH LAB
4 units, 3 lecture hours, 3 lab hours.
ADVISORIES: Geology 1, Eligibility for English 1A, and Mathematics 201. (Pass/No Pass)

Added CSU-GE and I designations to catalog description.

4 CALIFORNIA GEOLOGY
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)

Added CSU-GE, I, and C-ID GEOL 200 designations to catalog description.

6 ENVIRONMENTAL GEOLOGY
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)

Added CSU-GE, UC, I, and C-ID GEOL 130 designations to catalog description.
HEALTH SCIENCE (HLTH)

1 CONTemporary HEALTH ISSUES
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This course is designed to introduce the student to a comprehensive study of personal and community health. This course also introduce the student to health issues at the local, state, and national levels. (A, CSU, CSU-GE, UC)
Revised course description and changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

2 FIRST AID AND SAFETY
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

HISTORY (HIST)

1 WESTERN CIVILIZATION TO 1648
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This course provides a survey of the political, social, economic, cultural and intellectual developments of western civilization from its prehistoric antecedents in the Middle East to the rise of modern European nations in the seventeenth century. (A, CSU, CSU-GE, UC, I) (C-ID HIST 170)
Revised course description and changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

2 WESTERN CIVILIZATION FROM 1648
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This course provides a survey of the political, social, economic, cultural & intellectual development of Western culture and civilization and its global impact from the 17th century to the present era. (A, CSU, CSU-GE, UC, I) (C-ID HIST 170)
Revised course description and changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

11 HISTORY OF THE UNITED STATES TO 1877
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

12 HISTORY OF THE UNITED STATES SINCE 1865
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

12H HONORS HISTORY OF THE UNITED STATES SINCE 1865
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

20 WORLD HISTORY I TO 1600
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Removed advisory of Education 10 and changed English advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

23 WORLD HISTORY II SINCE 1500
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Removed advisory of Education 10 and changed English advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

31 A SURVEY OF THE HISTORY OF AFRICA
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

32 HISTORY OF THE MEXICAN AMERICAN PEOPLE (SAME AS ETHNIC STUDIES 32)
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Added CSU-GE designation to catalog description.

33 A SURVEY OF LATIN AMERICAN HISTORY
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”
A SURVEY OF THE HISTORY OF EAST ASIA

3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This course is an historical and cultural survey of East Asia from the pre-history to the present. Emphasis is on a critical evaluation of the main social, political, economic, cultural, intellectual and historical trends that have shaped the Asian countries. (A, CSU-GE, UC, I)

Revised course title from “The History of East Asia: A Survey” to “A Survey of the History of East Asia. Revised course description and changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

KINESIOLOGY (KINES)

20 ATHLETIC TRAINING (Formerly PE 20)
3.5 units, 3 lecture hours, 2 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This is a course designed to instruct students in the prevention and evaluation of athletic injuries. Emergency first aid, treatment and taping of injuries constitutes the majority of the lab component. (A, CSU, UC)

Corrected course description and changed advisory from “Eligibility for English 125 and English 126” to “Eligibility for English 1A.”

22 INTRODUCTION TO KINESIOLOGY
3 units, 3 lecture hours.
ADVISORY: Eligibility for English 1A.
Revised Grade Options to letter grade only (removed Pass/No Pass).

PHYSICAL EDUCATION (PE)

6 FITNESS AND HEALTH
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This course is designed to improve physical fitness levels through a variety of exercise activities including, but not limited to, recreational activities, strength development, cardio-respiratory development, and improved flexibility. The following components of physical fitness are emphasized: muscular endurance, muscular strength, cardio-respiratory endurance, flexibility and body composition. It is organized around these three objectives: safe performance of activity, appropriateness of activity for each individual, and the importance of the activity. (A, CSU, UC)

Corrected course description and added advisory “Eligibility for English 1A.”

7 GOLF
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Increased course unit value from .5 to 1 and lab hours from 1.5 to 3, and added advisory “Eligibility for English 1A.”

12 BEGINNING SWIM FOR FITNESS
1 unit, 3 lab hours.
ADVISORY: Students must be able to swim 50 yards freestyle without touching the bottom of the pool and Eligibility for English 1A. (Pass/No Pass)
This course is designed to increase knowledge of techniques of swimming and conditioning for intermediate swimmers. Swimming strokes and endurance improve through stroke technique drills and conditioning workouts. (A, CSU, UC)

Increased course unit value from .5 to 1 and lab hours from 1.5 to 3, corrected course description, and added advisory “Eligibility for English 1A.”

12B INTERMEDIATE SWIM FOR FITNESS
1 unit, 3 lab hours.
ADVISORY: Students must be able to swim 200 yards freestyle and demonstrate 50 yards of backstroke and breaststroke, and Eligibility for English 1A. (Pass/No Pass)
Increased course unit value from .5 to 1 and lab hours from 1.5 to 3, and added advisory “Eligibility for English 1A.”

14 VOLLEYBALL
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This course is designed for students to learn fundamental skills of volleyball, rules of the game, volleyball terminology, and game strategy. Drills, in-class matches, and tournaments are conducted according to the skill level of the students. (A, CSU, UC)

Corrected course description and added advisory “Eligibility for English 1A.”
15  WEIGHT TRAINING
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
A course is designed to improve physical fitness levels through resistance training exercises using free/machine weights. The following components of physical fitness are emphasized: muscular endurance, muscular strength, body composition, flexibility, and cardio-respiratory endurance. (A, CSU, UC)

15B  ADVANCED WEIGHT TRAINING
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
An advanced course designed for students with advanced weight lifting experience which includes the ability to design a weight training program. Students improve physical fitness levels through resistance training exercises using free/machine weights. The following components of physical fitness are emphasized: muscular endurance, muscular strength, body composition, flexibility, and cardio-respiratory endurance. (A, CSU, UC)

16  FITNESS WALKING
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This course is designed to expose students to the benefits of exercise through fitness walking and to the principles of exercise which increase cardiovascular conditioning, endurance, flexibility and methods of releasing body tension. (A, CSU, UC)

19  WEIGHT TRAINING AND AEROBICS
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This course is designed to help students understand, develop, and improve upon all components of physical fitness through resistance and aerobic training, use of free weights, weight machines, and cardio-respiratory equipment. Components of physical fitness emphasized are: muscular endurance, muscular strength, cardio-respiratory endurance, flexibility, and body composition. (A, CSU, UC)

29  YOGA
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Added advisory "Eligibility for English 1A."

32B  COMPETITIVE CROSS-COUNTRY
3 units, 9.5 lab hours.
LIMITATION ON ENROLLMENT: Performance Tryouts. (Pass/No Pass) (Retakes = 3)
This course is designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)

32C  OFF-SEASON CONDITIONING FOR CROSS-COUNTRY
1 unit, 3 lab hours. (Pass/No Pass) (Retakes = 3)
This course is off-season training for cross country runners with an emphasis on developing a high mileage base. (A, CSU, UC)

36C  OFF-SEASON CONDITIONING FOR SOCCER
1 unit, 3 lab hours.
LIMITATION ON ENROLLMENT: Performance Tryouts. (Pass/No Pass) (Retakes = 3)
This is a course for off-season conditioning of soccer players. This class is designed for students possessing the desire, ability, and soccer skills necessary to compete on the intercollegiate level. Prospective participants should confer with the soccer coach before enrollment. (A, CSU, UC)

36D  ATHLETIC RECOVERY
0.5 unit, 1.5 lab hours.
LIMITATION ON ENROLLMENT: Performance Tryouts. (Pass/No Pass) (Retakes = 3)
Revised number of retakes from 2 to 3.
39B  COMPETITIVE TRACK AND FIELD
3 units, 9.5 lab hours.
LIMITATION ON ENROLLMENT: Performance Tryouts.
(Pass/No Pass) (Retakes = 3)
This course is designed primarily for students possessing the desire, ability, and skills necessary to compete on the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport normally is required. (A, CSU, UC)
Corrected course description and revised number of retakes from 2 to 3.

43C  OFF-SEASON CONDITIONING FOR SWIMMING
1 unit, 3 lab hours.
LIMITATION ON ENROLLMENT: Performance Tryouts.
(Pass/No Pass) (Retakes = 3)
This is a course for off-season conditioning for collegiate swimmers. Swimming workouts, technique drills, dry land exercises and goal setting are done in this class. (A, CSU, UC)
Corrected course description and revised number of retakes from 2 to 3.

45  PERFORMANCE TRAINING AND CONDITIONING TECHNIQUES FOR INTERCOLLEGIATE ATHLETICS
1-2 units, 3-6 lab hours.
ADVISORY: Eligibility for English 1A. LIMITATION ON ENROLLMENT: Students in this course must perform and compete at the intercollegiate level. (Pass/No Pass) (Retakes = 3)
Changed advisory to “Eligibility for English 1A.”

49  WEIGHT TRAINING FOR COLLEGIATE ATHLETES
1 unit, 3 lab hours.
LIMITATION ON ENROLLMENT: Must be a collegiate athlete, have permission from the coach. The class will be organized to sports specific weight training. (Pass/No Pass) (Retakes = 3)
This is an advanced course designed for weight training student athletes. Students design a weight training program specific to their collegiate sport. Students improve physical fitness levels through resistance training exercises using free/machine weights. The following components of physical fitness are emphasized: muscular endurance, muscular strength, body composition, flexibility, and cardio-respiratory endurance. (A, CSU, UC)
Corrected limitation on enrollment and course description.

49A  BEGINNING CIRCUIT TRAINING
1 unit, 3 lab hours. (Pass/No Pass)
This class uses a variety of aerobic and strength training activities to improve cardio-respiratory endurance and muscular endurance. Circuit machines used include cycling and weight training equipment. Emphasis is placed on monitoring physiological response to exercise and teaching proper stretching, warm-up, training at target rate, and warm down methods. A pre-test and posttest is administered to evaluate fitness level and monitor improvement. (A, CSU, UC)
Corrected course description.

71  SOCCER
1 unit, 3 lab hours.
ADVISORY: Eligibility for English 1A. (Pass/No Pass)
This is a course designed for students interested in the sport of soccer. The course includes techniques and skills, offensive and defensive strategies, rules and regulations, along with class competition. (A, CSU, UC)
Corrected course description and added advisory "Eligibility for English 1A.”
PHYSICS (PHYS)

2A GENERAL PHYSICS I
4 units, 3 lecture hours, 3 lab hours.
PREREQUISITE: Mathematics 4A or equivalent. ADVISORY: Eligibility for English 1A. 
Reduced lecture hours from 4 to 3 and increased lab hours from 2 to 3.

2B GENERAL PHYSICS II
4 units, 3 lecture hours, 3 lab hours.
PREREQUISITE: Physics 2A. ADVISORY: Eligibility for English 1A.
Reduced lecture hours from 4 to 3 and increased lab hours from 2 to 3.

4A PHYSICS FOR SCIENTISTS AND ENGINEERS I
4 units, 3 lecture hours, 3 lab hours.
CO-REQUISITE: Mathematics 5B or equivalent. ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Classical mechanics, properties of matter, gravitation, fluid mechanics, oscillatory motion and mechanical waves. This course is calculus-based. (A, CSU-GE, UC, I) (C-ID PHYS 205) (C-ID PHYS 200S: PHYS 4A + PHYS 4B + PHYS 4C)
Revised course title. PHYS-4A was formerly "Physics for Scientists and Engineers." Corrected course description, and reduced lecture hours from 4 to 3.

4B PHYSICS FOR SCIENTISTS AND ENGINEERS II
4 units, 3 lecture hours, 3 lab hours.
PREREQUISITES: Physics 4A or equivalent and Mathematics 5B. ADVISORIES: Mathematics 6 and Eligibility for English 1A. (Pass/No Pass)
Revised course title. PHYS-4B was formerly "Physics for Scientists and Engineers." Reduced lecture hours from 4 to 3 and increased lab hours from 2 to 3.

4C PHYSICS FOR SCIENTISTS AND ENGINEERS III
4 units, 3 lecture hours, 3 lab hours.
PREREQUISITE: Physics 4B or equivalent. ADVISORY: Mathematics 17 and eligibility for English 1A. (Pass/No Pass)
Electromagnetic waves, optics, and modern physics. (A, CSU-GE, UC, I) (C-ID PHYS 215) (C-ID PHYS 200S: PHYS 4A + PHYS 4B + PHYS 4C)
Revised course title. PHYS-4C was formerly "Physics for Scientists and Engineers." Revised course description; corrected advisory from Mathematics 7 to Mathematics 17; reduced lecture hours from 4 to 3 and increased lab hours from 2 to 3.

10 CONCEPTUAL PHYSICS
3.5 units, 3 lecture hours, 2 lab hours.
PREREQUISITES: Mathematics 103. ADVISORY: Eligibility for English 1A. (Pass/No Pass)
Changed advisory to "Eligibility for English 1A."

PSYCHOLOGY (PSY)

42 STATISTICS FOR THE BEHAVIORAL SCIENCES
4 units, 4 lecture hours.
Added CSU-GE and I designations to catalog description.

SCIENCE (SCI)

1A INTRODUCTORY CHEMICAL AND PHYSICAL SCIENCE
4 units, 3 lecture hours, 3 lab hours.
PREREQUISITE: Satisfaction of the CSU system General Education Quantitative Reasoning Requirement (CSU-GE Area B4). ADVISORY: Eligibility for English 1A or English 1AH. (Pass/No Pass)
This course provides an investigation of basic principles of physics and chemistry including matter, physical and chemical properties, energy, motion, light, atomic structure, bonding, solutions and chemical reactions. The inter-dependence of chemistry and physics is emphasized. This course is intended for non-science majors. (A, CSU, SCU-GE, UC, I) (C-ID PHYS 140) (C-ID CHEM 140)
Corrected course description.
Revisions to College Personnel – State Center Community College District Administration
Fall 2022
(Page 223 of 2022-2023 catalog)

Title Change from Mr. to Dr.:
Vice Chancellor, Educational Services & Institutional Effectiveness
Dr. Jerome Countee

Staff Changes:
Executive Director, Public & Legislative Relations
Vacant

General Counsel
Vacant

Revisions to Clovis Community College Administration
Fall 2022
(Page 224 of 2022-2023 catalog)

Add:
Dean of Instruction, Natural & Health Sciences
Dr. Laura Hill

Interim Dean of Instruction, Physical and Computational Sciences and Distance Education
Dr. Derek Dormedy

Dean of Instruction, Social Science
Dr. Ruben Diaz

Director of Athletics
Mr. James Sewell

Interim Director of Financial Aid
Ms. Rebecca Kinlow

Remove:
Dean of Instruction, Physical & Computational Sciences and Distance Education
Dr. John Forbes

Director of Financial Aid
Mr. Matthew Levine

Revisions to Clovis Community College Personnel
Fall 2022
(Page 225 of 2022-2023 catalog)

Staff Changes:
Athletics
James Sewell - (559) 325-5285
james.sewell@cloviscollege.edu

Bookstore
Raeanne Aguilar – (559) 325-5254
r.aguilar@follett.com

Financial Aid and Scholarships
Rebecca Kinlow - (559) 325-5339
Rebecca.kinlow@cloviscollege.edu

Psychological Services Coordinator
Tabatha Stewart – (559) 325-5377
Tabatha.stewart@cloviscollege.edu
Revisions to Faculty and Administration

Fall 2022
(Pages 227-231 of 2022-2023 catalog)
Numbers in parenthesis indicate year of appointment at Clovis Community College.

Educational Degrees Updated:

FLEMING, SHAWN (2001)
Chemistry
A.A., Kings River Community College
B.S., M.S., California State University, Fresno
Ed.D., Aspen University

HEMBD, MAX (2015)
Music
B.A., M.M., University of California, Los Angeles
M.M., Berklee College of Music

RUIZ, OMAR (2019)
American Sign Language
B.A., M.A., Ed.D., California State University, Fresno

Position Change:

DORMEDY, DEREK (2015)
Interim Dean of Instruction, Physical and Computational Sciences and Distance Education
B.S., California State University, Dominguez Hills
Ph.D., University of California, Merced

Add:

BAKER, SARAH (2022)
Chemistry (1-year temp)
B.S., California State University, Fullerton
M.S., Ph.D., University of California, Merced

CHA, SILAS (2022)
Political Science
B.A., University of California, Berkeley
M.A., California State University, Fresno

CIULA, CRISTINA (2022)
Chemistry
B.S., M.S., California State University, Fresno

DIAZ, RUBEN (2022)
Dean of Instruction, Social Science
B.S., California State University, San Jose
Ed.M., National University
Ed.D., Grand Canyon University

ERVIN, AKYIA (2022)
Student Success Coordinator (1-year temp)
B.A., California State University, Fresno
M.A., San Diego State University

FISHER, DERONSASHA (2022)
Student Success Coordinator
B.A., California State University, Fresno
Ed.M., University of Illinois at Urbana-Champaign

FREYMILLER, GRACE (2022)
Biology (1-year temp)
B.S., Humboldt State University
Ph.D., Joint-Doctoral Program with University of California, Riverside and San Diego State University

GENNARO, ANTONIO (2022)
Music and Commercial Music
B.F.A., California Institute of the Arts
California State Teaching Credential, California State University, Northridge
M.F.A., Mills College

GOMEZ, MICHAEL (2022)
Psychology
A.A., El Camino College
B.A., California State University, Dominguez Hills
M.A., Ph.D., University of Nevada, Reno

HILL, LAURA (2022)
Dean of Instruction, Natural & Health Sciences
B.S., M.S.N., California State University, Bakersfield
Ed.D., California State University, Fresno

KHAIRA, GURINDER (2022)
Engineering
B.S., University of California, Davis
M.S., California State University, Fresno

MACHUCA MARQUEZ, CRISTAL (2022)
Communication
A.A., A.S., Bakersfield College
B.A., California State University, Bakersfield
M.A., California State University, Los Angeles

MONTEJANO, DENNIS (2022)
Criminology
B.S., M.S., California State University, Fresno

PRETZ, LUKE (2022)
Economics (1-year temp)
B.A., Rockhurst University
M.A., University of Massachusetts Amherst
ROCHA, MONA (2022)
History
B.A., University of California, Los Angeles
M.A., California State University, Northridge
Ph.D., Louisiana State University

SANTANA, ADELA (2022)
Anthropology
B.A., University of Texas, Austin
Ed.M., Teachers College, Columbia University

SEO, EUNJI (2022)
Accounting
A.A., Hanyang Women’s College, Seoul, Korea
B.S., M.S., University of New Orleans

SEWELL, JAMES (2022)
Director of Athletics
B.A., Adelphi University
M.A., Concordia University, Irvine

SMITH, JACQUELINE (2022)
Counselor, Disabled Student Programs and Services (DSP&S)
A.A., Fresno City College
B.A., M.S., California State University, Fresno

SPACH, KATEY (2022)
Health Science
B.S., California State University, Fresno
M.S., Logan University

STEWART, TABATHA (2022)
Psychological Services Coordinator
B.S., California State University, Fresno
M.A., Psy.D., California School of Professional Psychology, Fresno

TINKER, DAVID (2022)
Geology
B.A., Carleton College
Ph.D., University of California, Davis

VILLALTA, REBEKAH (2022)
Biology
A.S., College of the Sequoias
B.S., University of California, San Diego
M.S., University of Nebraska at Kearney

WHITFORD, MALACHI (2022)
Biology & Environmental Science
B.S., Humboldt State University
Ph.D., Joint-Doctoral Program with University of California, Davis and San Diego State University

Remove:
FORBES, JOHN (2016)
Dean of Instruction, Physical & Computational Sciences and Distance Education
B.S., Taylor University, Indiana
M.A., California State University, Fresno
Ed.D., University of California, Davis

JOHNSON, TASHA (2021)
Counseling
B.A., Fresno Pacific University
M.A., California State University, Fresno
M.S. National University

LEVINE, MATTHEW (2017)
Director of Financial Aid
B.A., National University

Revisions to Emeritus Faculty
Fall 2022
(Pages 231-232 of 2022-2023 catalog)

Add:
BROWN, LEE
2022 Emeritus Honoree
2008 - 2022
Political Science Instructor
2008- 2015; 2017 - 2022
Dean of Instruction
2015-2017

ELLIOTT, GARRY C.
2022 Emeritus Honoree
2001 - 2022
Criminology Instructor
Revisions to Retired Administration, Faculty, and Staff
Fall 2022
(Page 232 of 2022-2023 catalog)

*Revised Retirement Dates:*

**OKI, GAYLE**
1989 – 2019
Office Specialist

*Add:*

**BENZLER, KELLY**
2002 – 2022
Instructional Administrative Assistant, Career Technical Education & Library

**LEVINE, MATTHEW**
2017 – 2022
Director of Financial Aid

**LOCK, CHERYL**
2000 – 2022
Financial Aid Analyst

**YAMAOKA, LORRAINE**
2007 – 2022
Early Child Development Education Specialist
Creating Opportunities...
One Student at a Time

Clovis Community College is the college of choice for academic excellence, innovation, and student achievement.