

# Columbia College

2016-2017  
CATALOG ADDENDUM

11600 Columbia College Drive  
Sonora, California 95370  
(209) 588-5100  
[www.gocolumbia.edu](http://www.gocolumbia.edu)

Accredited by

*The Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges.*

*This is an addendum to the Columbia College Catalog for academic year starting May 2, 2016 and ending April 29, 2017  
Included are curricular changes that took place after the 2016-2017 Catalog was printed.*

*The Yosemite Community College District and Columbia College have made every reasonable effort to ensure that this catalog is accurate. The District and College reserve the right to modify, cancel, or add courses and academic awards or requirements without notice for reasons related to enrollment, financial support, or other reasons. The district also reserves the right to add, amend, or repeal any rules, regulations, policies and procedures.*



# General Education BREADTH REQUIREMENTS

General Education (GE) Breadth Requirements for Associate Degree from Columbia College and Transfer to CSU

Completion of one Column 1 on the following pattern will partially satisfy Associate Degree Requirements for Columbia College. Completion of Column 2 will satisfy CSU GE Breadth Requirements for transfer to a CSU. The courses that satisfy both patterns are listed in the center column. Transfer students are encouraged to satisfy both patterns at the same time by careful selection of courses, in order to graduate with an Associate Degree as well as transfer to a CSU campus. CSU/UC transfer students should see page 56 and 57 for an alternative method of completing transferable General Education Requirements. Where indicated, AP exam scores of 3, 4, or 5 may be used to satisfy specific GE breadth requirements. See page 64 for Columbia College's policy on application of credit from Advanced Placement (AP) examinations.

Work with a counselor to determine which column and courses below will best serve your academic goals.



COLUMN 1  
AA/AS Degree Pattern



COLUMN 2  
AA-T/AS-T Degree  
& CSU Transfer Pattern

## Area A: English Language Communication and

Complete TWO COURSES with at least a C:

- one in A2
- one in A1 or A3

**A1: Oral Communication**  
SPCOM 1, SPCOM 4

**A2: Written Communication**  
ENGL 1A,  
(or AP Score of 3, 4, or 5)

**A3: Critical Thinking**  
ENGL 1B<sup>1</sup>, ENGL 1C, HIST 5<sup>1</sup>, PHILO 5<sup>1</sup>, SPCOM 2

Complete THREE COURSES (nine units minimum) with at least a C:

- one in A1
- one in A2
- one in A3

## Area B: Scientific Inquiry and Quantitative Reasoning

Complete TWO COURSES

- one COURSE in B1 or B2
- one course in B4 with at least a C, **OR** place into a MATH course numbered 0-99 via Columbia College mathematics assessment, in which case only one course is required from Section B.

**B1: Physical Sciences**  
CHEM 2A, CHEM 2B, CHEM 4A, CHEM 4B, CHEM 5, CHEM 14, CHEM 16, CHEM 20, CHEM 30(L)  
ESC 1, ESC 5(L), ESC 10, ESC 22, ESC 23(L), ESC 30, ESC 33(L), ESC 40, ESC 42, ESC 50(L), ESC 62,  
FNR 6,  
GEOGR 15,  
PHYCS 1, PHYCS 2, PHYCS 4A(L), PHYCS 4B(L), PHYCS 5A(L), PHYCS 5B(L), PHYCS 30(L)  
(or AP Score of 3, 4, or 5)

**B2: Life Sciences**  
ANTHR 1  
BIOL 2(L), BIOL 4(L), BIOL 6(L), BIOL 10(L), BIOL 17(L), BIOL 24(L), BIOL 60(L), BIOL 65(L), BIOL 150 (AA/AS degree only)  
(or AP Score of 3, 4, or 5)

**B3: Lab (Courses that contain a laboratory component)**  
BIOL 2(L), BIOL 4(L), BIOL 6(L), BIOL 10(L), BIOL 17(L), BIOL 24(L), BIOL 60(L), BIOL 65(L),  
CHEM 2AL, CHEM 2BL, CHEM 4AL, CHEM 4BL, CHEM 5L, CHEM 14L, CHEM 16L, CHEM 20L, CHEM 30(L)  
ESC 5(L), ESC 23(L), ESC 33(L), ESC 50(L),  
PHYCS 4A(L), PHYCS 4B(L), PHYCS 5A(L), PHYCS 5B(L)  
(or AP Score of 3, 4, or 5)

**B4: Mathematics, Quantitative Reasoning**  
MATH 2, MATH 4, MATH 6, MATH 8, MATH 12, MATH16, MATH 18A, MATH 18B, MATH 18C, MATH 26, MATH 104 (AA/AS degree only),  
(or AP Score of 3, 4, or 5)

Complete a minimum of THREE COURSES (nine units minimum):

- one in B1\*
- one in B2\*
- one in B3\*
- one in B4 with at least a C

\* A B1 or B2 course followed by (L) will also satisfy the B3 requirement

## REFERENCES

- <sup>1</sup> ENGL 1B, HIST 5, or PHILO 5 may satisfy Area A3 or Area C2, but not both.
- <sup>2</sup> CHILD 1, HHP 2, PSYCH 20 or PSYCH 35 may be used to satisfy Area D or Area E, but not both.
- <sup>3</sup> SOCIO 5 and ART 13 meet an Ethnic Studies Requirement
- <sup>4</sup> ANTHR 1 may be used to satisfy either Area B2 or Area D1, but not both.



### Area C: Arts and Humanities

Complete **ONE COURSE**

from:

- C1 or C2

**C1: Arts (Art, Music, Theater):**

ART 11, ART 12, ART 13<sup>3</sup>,  
DRAMA 10 , DRAMA 20, DRAMA 42, DRAMA 43  
MUSIC 2, MUSIC 10, MUSIC 11, MUSIC 12  
(or AP Score of 3, 4, or 5)

**C2: Humanities (Literature, Philosophy, Languages other than English):**

ENGL 1B<sup>1</sup>, ENGL 11, ENGL 17, ENGL 18, ENGL 46,  
ENGL 47, ENGL 49, ENGL 50, ENGL 81  
HIST 5<sup>1</sup>,  
HUMAN 1, HUMAN 2, HUMAN 3, HUMAN 4  
PHILO 1, PHILO 5<sup>1</sup> , PHILO 25, PHILO 35,  
SIGN 40A, SIGN 40B, SIGN 40C,  
SPAN 1A, SPAN 1B, SPAN 2A, SPAN 2B,  
(or AP Score of 3, 4, or 5)

Complete **THREE COURSES**

(nine units minimum):

- one in C1
- one in C2
- one in C1 or C2

### Area D: Social and Behavioral Sciences

Complete **ONE COURSE**

from any subarea (D0-D9):

- one in D0-D9

**D0: Sociology and Criminology**

ANTHR 8, HHP 63, SOCIO 1, SOCIO 2, SOCIO 5<sup>3</sup>, SOCIO 8

**D1: Anthropology, Archaeology**

ANTHR 1<sup>4</sup>, ANTHR 2, ANTHR 3, ANTHR 10, ANTHR 15

**D2: Economics**

ECON 10, ECON 11, (or AP Score of 3, 4, or 5)

**D3: Ethnic Studies**

ANTHR 15, SOCIO 5<sup>3</sup>, SPCOM 5

**D4: Gender Studies**

ANTHR 7, HHP 2<sup>2</sup>, HIST 21, SOCIO 7

**D5: Geography**

GEOGR 12, GEOGR 20

**D6: History**

HIST 11, HIST 13, HIST 14, HIST 16, HIST 17, HIST 21,  
(or AP Score of 3, 4, or 5)

**D7: Interdisciplinary, Social or Behavioral Science**

CHILD 22, CHILD 36, FNR 1, SPCOM 12

**D8: Political Science, Government and Legal Institutions**

POLSC 10, POLSC 12, POLSC 14, POLSC 16,  
(or AP Score of 3, 4, or 5)

**D.9: Psychology**

CHILD 1<sup>2</sup>, PSYCH 1, PSYCH 15, PSYCH 20<sup>2</sup>, PSYCH 24, PSYCH 35<sup>2</sup>,  
(or AP Score of 3, 4, or 5)

Complete **THREE COURSES**

(nine units minimum) from at least two subareas (D0-D9)

- one course in D0-D9
- one course in D0-D9
- one course in D0-D9

**Strongly recommended:**

Satisfy the CSU *US History, Constitution, and American Ideals* requirement for CSU graduation by completing POLSC 10, and HIST 16 **OR** HIST 17. See p. 57 for more information

### Area E: Lifelong Learning and Self-Development

Complete **ONE COURSE**  
(three units minimum):

- one in E

BIOL 50,  
CHILD 1<sup>2</sup>,  
GUIDE 1, GUIDE 18, GUIDE 30,  
HHP 2<sup>2</sup> , HHP 5, HHP 6A, HHP 6B, HHP 60  
INDIS 48,  
PSYCH 5, PSYCH 10, PSYCH 20<sup>2</sup>, PSYCH 30, PSYCH 35<sup>2</sup>, PSYCH 40,  
SOCIO 12, SOCIO 28,  
or (Veterans only) DD 214 form

Complete **ONE COURSE**  
(three units minimum):

- one in E

### Activities Requirement

Complete **TWO UNITS** of  
“activity” courses:

- at least one unit from HHP courses
- one additional unit of activity

See “Activities Requirement for Associate Degree” on page 59 for a list of courses that will satisfy the Activity requirement for AA or AS degree at Columbia College. Veterans who can present a DD Form 214 are exempt from this requirement.

(Activities Requirement does not apply to this pathway.)

# Biology PROGRAM

Arts and Sciences Division  
Manzanita, Upper Level, Room 271  
(209) 588-5087  
www.gocolumbia.edu/arts\_sciences

## AS-T Degree: **Biology**

The Associate in Science (AS) degree in Biology provides students with the core curriculum required in the first two years of a college experience leading to a Bachelor of Science (BS) or Bachelor of Arts (BA) degree in Biology. The basis for any biological sciences degree requires courses in a general biology series (organismal, ecology, evolution, molecular and cellular biology), chemistry, calculus and physics.

The goal of the Associate in Science in Biology for Transfer program is to prepare students for transfer to a California State University to pursue a B.A. or B.S. in Biology. The program is intended and designed to make the transfer of Columbia College students to CSU seamless. The requirements of this degree align with the Transfer Model Curriculum. It is the most efficient pathway for students desiring to transfer to CSU in a similar major in a timely manner. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals.

### LEARNING OUTCOMES

Successful students will demonstrate Mastery of Relevant Theory and Practice in the following ways:

- will be able to express observed data, calculations, experimental results, and explanations in an organized manner.
- will be able to present factual data and scientific explanations in front of a class of peers.
- will be able to read science material and separate the factual data from the hypotheses or theories presented.
- will be able to obtain material from books, magazines, scientific journals, and the internet and cite the material in a standard manner.
- will be able to plan a program of data gathering and analysis that employs modern scientific procedures and the use of modern technology.

Successful students will demonstrate Critical and Creative Thinking in the following ways:

- will be able to obtain, evaluate, and interpret information or data from lectures, printed materials, experiments, and other sources.
- will be able to apply the scientific method to problem solving and experimentation.
- will be able to generalize and apply acquired skills to new situations.

- will be able to apply biological principles and models to other disciplines.

Successful students will demonstrate Civic, Environmental, and Global Awareness in the following ways:

- will be able to verbalize the relationship of the natural environment and human use patterns.
- will be able to explain various sustainability practices that will protect the environment for future generations.
- will be able to participate in activities that promote an informed understanding and tolerance among diverse groups.

Successful students will demonstrate Individual and Collective Responsibility in the following ways:

- will be able to adopt ethical standards for professional and societal behavior including the unbiased assessment and reporting of data.
- will be able to consider and respect the opinions and practices of others.
- will be able to participate in shared decision making that builds consensus.
- will be able to utilize acquired knowledge of biology to make informed decisions about situations in society and public policy, including health, safety, and the environment.
- will be able to utilize learned knowledge and skills to be successful in the modern work place.

### DEGREE REQUIREMENTS

To earn this degree, students must complete 60 CSU-transferable semester units with a grade point average of 2.0 or better, including completion of the:

1. Either the California State University General Education Breadth Requirements (CSU-GE - minimum of 39 units) OR the Intersegmental General Education Transfer Curriculum (IGETC minimum of 37 units); AND
2. Semester units as specified below, with a grade of C or better in all courses;
3. Any CSU-transferable electives needed to bring the total units to 60. Note: Students earning this degree are exempt from the Institutional Requirement of completing two units of activity courses.

### RECOMMENDED OPTION

IGETC for STEM: Courses in Areas 1 (UC-bound students do not need 1C), 2, and 5 of the traditional IGETC; and One course in Area 3A; one course in Area 3B; and two courses in Area 4 from two different disciplines\*. *\*Two lower division general education courses are deferred and must be taken after transfer*

| Complete the following coursework: |   | (Units)      |
|------------------------------------|---|--------------|
| BIOL 2                             | Cell and Molecular Biology                  | 4            |
| BIOL 4                             | Principles of Evolution and Zoology         | 4            |
| BIOL 6                             | Plant Biology and Ecology                   | 4            |
| CHEM 2A                            | General Chemistry I                         | 3            |
| CHEM 2AL                           | General Chemistry I Laboratory              | 2            |
| CHEM 2B                            | General Chemistry II                        | 3            |
| CHEM 2BL                           | General Chemistry II Laboratory             | 2            |
| MATH 18A                           | Calculus I                                  | 5            |
| Complete a sequence of 8 units     |   | 8            |
| PHYCS 4A                           | Introductory Physics I: Trigonometry Level  | 4 <b>AND</b> |
| PHYCS 4B                           | Introductory Physics II: Trigonometry Level | 4            |
| <b>OR</b>                          |   |              |
| PHYCS 5A                           | Introductory Physics I: Calculus Level      | 4 <b>AND</b> |
| PHYCS 5B                           | Introductory Physics II: Calculus Level     | 4            |

|  |             |
|--|-------------|
| Complete 4 units from the following        | 4           |
| MATH 2      Statistics                     | 4 <b>OR</b> |
| CHEM 4A    Organic Chemistry I             | 3           |
| <i>AND</i>                                 |             |
| CHEM 4AL   Organic Chemistry I Laboratory  | 1           |
| UNITS REQUIRED IN MAJOR:                   | 39          |
| TOTAL UNITS REQUIRED FOR ASSOCIATE DEGREE: | 60          |

## Chemistry PROGRAM

### AS- T Degree: Chemistry

The Associate in Science for Transfer (AS-T) degree in chemistry provides students with the core curriculum required in the first two years of a college experience leading to a Bachelor of Science (BS) or Bachelor of Arts (BA) degree in chemistry. The curriculum is aligned with the American Chemical Society (ACS) guidelines for two year colleges. The basis for any physical sciences degree requires one year of calculus, one year of calculus based physics, and one year of general chemistry. This AS degree in chemistry further readies a student with a one year course in organic chemistry as well.

Students should consult with a counselor to determine if this degree is the best option for their transfer goals.

#### LEARNING OUTCOMES

Successful students will demonstrate Mastery of Relevant Theory and Practice in the following ways:

- will be able to express observed data, calculations, experimental results, and explanations of all of the above in an organized manner.
- will be able to present factual data and scientific explanations in front of a class of peers.
- will be able to read science material and separate the factual data from the hypotheses or theories presented.
- will be able to obtain material from books, magazines, scientific journals, and the internet and cite the material in a standard manner.

Successful students will demonstrate Critical and Creative Thinking in the following ways:

- will be able to obtain, evaluate, and interpret information or data from lectures, printed materials, experiments, and other sources.
- will be able to apply the scientific method to problem solving and experimentation.
- will be able to generalize and apply acquired skills to new situations.
- will be able to apply chemical principles and models to other disciplines.

Successful students will demonstrate Civic, Environment, and Global Awareness in the following ways:

- will be able to verbalize the relationship of the natural environment and the improper handling of materials in our society.
- Will be able to explain aspects of any Material Safety Data Sheet

(MSDS).

Successful students will demonstrate Individual and Collective Responsibility in the following ways:

- will be able to adopt ethical standards for professional and societal behavior including the unbiased assessment and reporting of data.
- will be able to consider and respect the opinions and practices of others.

#### DEGREE REQUIREMENTS

■ To earn this degree, students must complete 60 CSU-transferable semester units with a grade point average of 2.0 or better, including completion of:

1. Either the California State University General Education Breadth Requirements (CSU-GE - minimum of 39 units) OR the Intersegmental General Education Transfer Curriculum (IGETC minimum of 37 units); AND
2. Semester units as specified below, with a grade of C or better in all courses;
3. Any CSU-transferable electives needed to bring the total units to 60. Note: Students earning this degree are exempt from the Institutional Requirement of completing two units of activity courses.

#### RECOMMENDED OPTION

IGETC for STEM: Courses in Areas 1 (UC-bound students do not need 1C), 2, and 5 of the traditional IGETC; and One course in Area 3A; one course in Area 3B; and two courses in Area 4 from two different disciplines.\* *\*Two lower division general education courses are deferred and must be taken after transfer.*

| Complete the following coursework:                  | (Units) |
|---|---------|
| CHEM 2A      General Chemistry I <b>AND</b>         | 3       |
| CHEM 2AL    General Chemistry I Laboratory          | 2       |
| CHEM 2B      General Chemistry II <b>AND</b>        | 3       |
| CHEM 2BL    General Chemistry II Laboratory         | 2       |
| CHEM 4A      Organic Chemistry I <b>AND</b>         | 3       |
| CHEM 4AL    Organic Chemistry I Laboratory          | 1       |
| CHEM 4B      Organic Chemistry II <b>AND</b>        | 3       |
| CHEM 4BL    Organic Chemistry II Laboratory         | 1       |
| MATH 18A    Calculus I                              | 5       |
| MATH 18B    Calculus II                             | 5       |
| PHYCS 5A    Introductory Physics I: Calculus Level  | 4       |
| PHYCS 5B    Introductory Physics II: Calculus Level | 4       |

|  |    |
|--|----|
| UNITS REQUIRED IN MAJOR:                   | 36 |
| TOTAL UNITS REQUIRED FOR ASSOCIATE DEGREE: | 60 |

## Child Development PROGRAM

Career and Technical Education Division  
Manzanita, Upper Level, Room 267  
(209) 588-5142 or (209) 588-5198  
www.gocolumbia.edu/career\_technical/

### Certificate of Achievement: Associate Infant/Toddler Teacher

The Certificate of Achievement in Associate Infant/Toddler Teacher provides students with a foundation in high-quality caregiving and environments for infants and toddlers. Coursework includes knowledge of child development from the prenatal stage through age three, understanding the child in the context of his/her family, inclusive practice, health and safety, and observation and assessment. This certificate prepares students for entry-level teaching roles with infants and toddlers in private as well as state and federally-funded programs. The courses included satisfy the education requirements for the California Child Development Permit Matrix at the Associate Teacher level. This certificate prepares students to work at the aide or teacher level in infant/toddler care settings.

#### CERTIFICATE REQUIREMENTS

■ To earn this Certificate of Achievement, complete the course requirements below with at least a C, unless the course can only be completed for P/NP. In those instances, a grade of P is required.

| Complete the following coursework: |                                   | (Units) |
|------------------------------------|-----------------------------------|---------|
| CHILD 1                            | Child Growth and Development      | 3       |
| CHILD 22                           | Child, Family, Community          | 3       |
| CHILD 26                           | Health, Safety, and Nutrition     | 3       |
| CHILD 42                           | Infant/Toddler Development        | 3       |
| CHILD 43                           | Infant/Toddler Care and Education | 3       |
| CHILD 44                           | Infant/Toddler Practicum          | 3       |

TOTAL UNITS REQUIRED FOR CERTIFICATE OF ACHIEVEMENT: 18

## Communication Studies PROGRAM

Career and Technical Education Division  
Manzanita, Upper Level, Room 267  
(209) 588-5142 or (209) 588-5198  
www.gocolumbia.edu/career\_technical/

### AA Degree: Language Arts: Emphasis in Communication

An Associate in Arts Degree is earned in areas such as Fine Arts, Humanities, Social and Behavioral Science, and is often awarded to students who plan to transfer to a four-year institution.

#### DEGREE REQUIREMENTS

■ To earn this associate degree, complete the requirements below with a C or better in each course, in addition to completing the AA/AS Degree Pathway (Column I) of the Columbia College General Education Breadth Requirements on page 60.

Complete 6 units from this section: (Units)

|         |                                 |   |
|---------|---------------------------------|---|
| SPCOM 1 | Introduction to Public Speaking | 3 |
| SPCOM 2 | Argumentation and Debate        | 3 |

Complete 6 units from this section: (Units)

|          |   |   |
|----------|---|---|
| ENGL 1B  | Advanced Composition and Introduction to Literature | 3 |
| ENGL 1C  | Advanced Composition and Critical Thinking          | 3 |
| PHILO 1  | Introduction to Philosophy                          | 3 |
| PHILO 25 | Twentieth Century Philosophy                        | 3 |

Complete 6 units from this section: (Units)

|          |                                      |   |
|----------|--------------------------------------|---|
| DRAMA 20 | Oral Expression and Interpretation   | 3 |
| ENGL 11  | Film Appreciation                    | 3 |
| SPCOM 4  | Introduction to Human Communication  | 3 |
| SPCOM 5  | Intercultural Communication          | 3 |
| SPCOM 7  | Forensics Workshop                   | 3 |
| SPCOM 6/ | Introduction to Small Group and Team |   |
| BUSAD 9  | Communication                        | 3 |
| SPCOM 12 | Media and American Culture           | 3 |
| SPCOM 19 | Exploring Radio Drama                | 3 |

UNITS REQUIRED IN MAJOR: 18

TOTAL UNITS REQUIRED FOR ASSOCIATE DEGREE: 60

