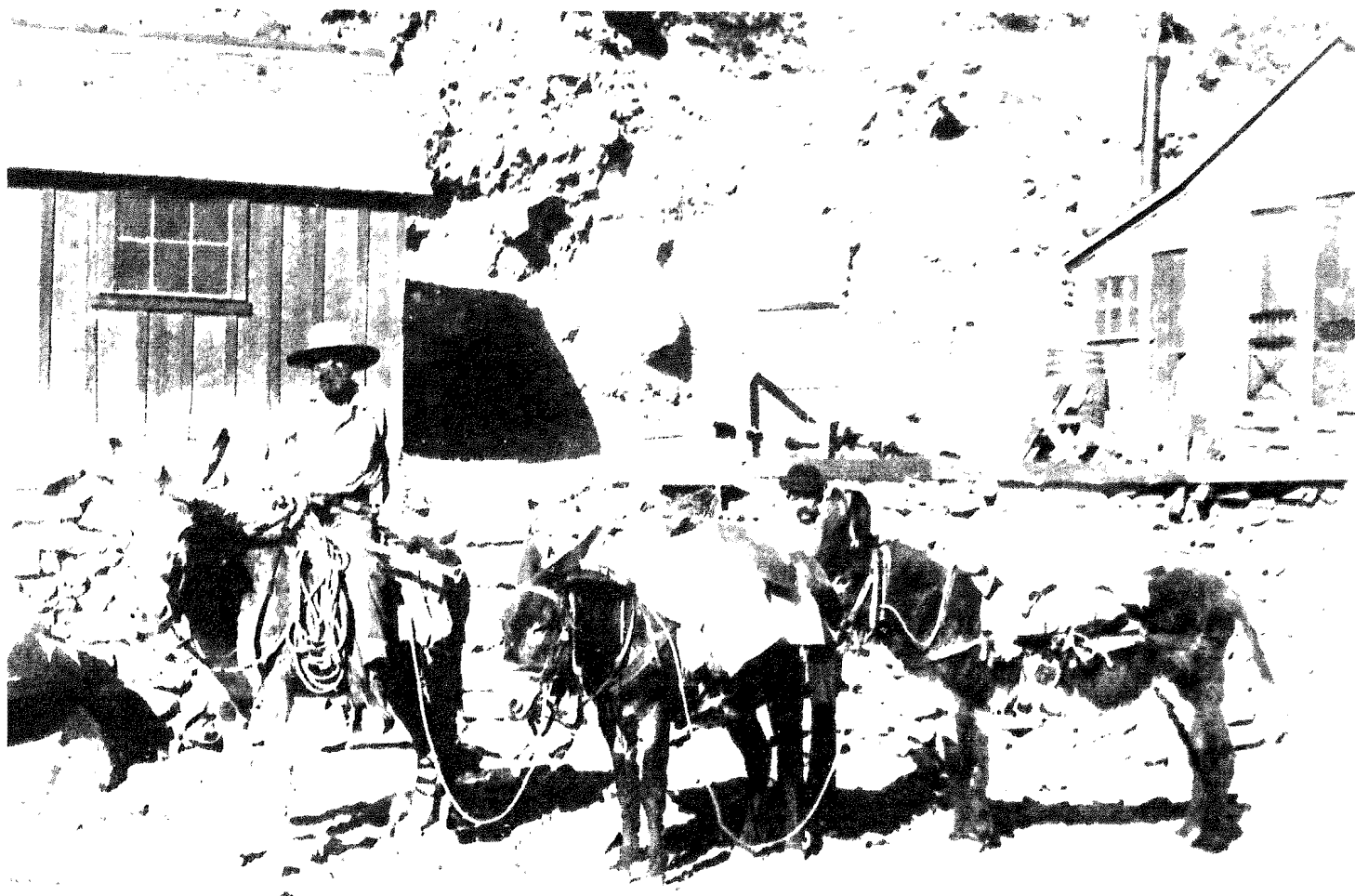


# COCHISE COLLEGE



*1998-1999*

*Catalog Addendum*

**PART TWO**



## **COCHISE COLLEGE**

### **DISTRICT OFFICES**

4190 West Highway 80  
Douglas, Arizona 85607-9724  
(520) 364-7943

### **BENSON CENTER**

579 West Fourth Street  
Benson, Arizona 85602  
520-586-4495

### **FORT HUACHUCA CENTER**

Commander, USAIC  
Ft. Huachuca, Arizona  
Attn: ATZS-CPH-E (8)  
Building 52104  
Ft. Huachuca, Arizona 85613-6000  
(520) 533-2391

### **SIERRA VISTA CAMPUS**

901 North Colombo  
Sierra Vista, Arizona 85635  
(520) 515-0500

### **WILLCOX CENTER**

1110 West Fremont  
Willcox, Arizona 85643  
(520) 384-4502

Toll Free Phone Number: 1-800-966-7943  
(Hours 8:00 a.m. to 4:00 p.m.)

### **GOVERNING BOARD**

Mrs. Jan Guy, Chair  
Dr. Randall H. Groth, Secretary  
Ms. Jane Livingston, Member  
Mr. Bob Nelson, Member  
Mr. Natalio Sabal, Member

### **ARIZONA STATE COMMUNITY BOARD**

Mr. Ted Fichtl, Cochise County Representative

### **PRESIDENT**

Dr. Karen Nicodemus

All information-including statements on tuition, fees, course offerings, admission and graduation requirements-is subject to change without notice, obligation or liability.

Published: November 1998

Cochise College is an equal opportunity, affirmative action employer and educational institution committed to excellence through diversity. Please refer to page 225, Cochise College Catalog 1997-1998.

**PLEASE NOTE:**

Since the publication of the 1998-1999 Catalog Addendum, the Cochise College Governing Board has made changes that directly affect students. These changes include new programs, degrees, certificates, courses, and course modifications described in this catalog addendum. Students entering Cochise College before 1/1/99 may still use the catalog in place at the time of initial enrollment providing enrollment has been continuous.

# OUR DEGREES ARE CHANGING

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To ensure a smooth transfer from a community college to a state university, Arizona community colleges and public universities have agreed to develop three new transfer degrees: Associate of Arts, Associate of Business, and Associate of Science.

In cooperation with this effort, Cochise College beginning January 1, 1999, is offering three new degrees for transfer. We continue to offer a revised Associate of General Studies Degree, an Associate of Applied Science Degree and a variety of certificates for vocational training. The changes listed below are detailed on the following pages.

**New Transfer Degrees**

- Associate of Arts (AA)
- Associate of Business (ABus)
- Associate of Science (AS)

**Revised Degree**

- Associate of General Studies (AGS)

**New Direct Employment Degree**

- Associate of Applied Science (AAS)
- Network Management

**New and Revised Certificates**

- Management
- Network Support
- Paramedicine
- PC Maintenance and Repair
- Supervisory Management

**Three references are required for a current listing of Cochise College degrees and programs: 1997-1999 catalog, Addendum I and Addendum II. Where to Look provides a quick user guide to these three references.**

## WHERE TO LOOK

- Beginning January 1, 1999, all AA, AGS, and AS degree programs found on pages 54-79 in the 1997-1999 Catalog replace the degree programs found in this addendum. Students entering Cochise in January 1999 must follow the Addendum II.
- Students enrolled prior to January 1999, may choose to graduate under any catalog in effect during enrollment as long as they have not sat out for more than a year at any time.

### DEGREES AND CERTIFICATES

#### NEW DEGREE OVERVIEW

Addendum II Page 5

#### DEGREE REQUIREMENTS

Addendum II Page 6

#### ARIZONA GENERAL EDUCATION CURRICULUM (AGEC)

**TRANSFER BLOCKS** Addendum II Page 7

#### ASSOCIATE OF ARTS

|   |             |          |
|---|-------------|----------|
| General Requirements  | Addendum II | Page 8-9 |
| Administration of Justice   | Addendum II | Page 10  |
| Art   | Addendum II | Page 10  |
| Fine Arts   | Addendum II | Page 11  |
| English   | Addendum II | Page 11  |
| Exercise Science, Health,<br>Physical Education, Recreation<br>and Wellness | Addendum II | Page 11  |
| Family and Consumer<br>Sciences   | Addendum II | Page 12  |
| History   | Addendum II | Page 12  |
| Journalism and Media Arts   | Addendum II | Page 12  |
| Language  | Addendum II | Page 13  |
| Political Science   | Addendum II | Page 13  |
| Psychology  | Addendum II | Page 14  |
| Social Work   | Addendum II | Page 14  |
| Sociology   | Addendum II | Page 14  |

#### ASSOCIATE OF BUSINESS

|                                 |             |         |
|---------------------------------|-------------|---------|
| General Business                | Addendum II | Page 15 |
| Computer Information<br>Systems | Addendum II | Page 15 |

#### ASSOCIATE OF SCIENCE

|                  |             |         |
|------------------|-------------|---------|
| Biology          | Addendum II | Page 16 |
| Chemistry        | Addendum II | Page 16 |
| Computer Science | Addendum II | Page 16 |

#### ASSOCIATE OF GENERAL STUDIES

Addendum II Page 17

#### ELECTIVES FOR AA, ABUS, AS AND AGS DEGREES

Addendum II Page 18

#### ASSOCIATE OF APPLIED SCIENCE

|  |   |         |
|--|---|---------|
| Administration of Justice                | 1997-1999 Catalog                         | Page 54 |
| Agriculture                              | 1997-1999 Catalog                         | page 55 |
| Aviation Maintenance<br>Technology       | 1997-1999 Catalog                         | Page 57 |
| Avionics Technology                      | Under revision, contact Aviation Division |         |
| Computer Information<br>Systems          | 1997-1999 Catalog                         | Page 61 |
| Culinary Arts                            | Addendum I                                |         |
| Drafting and Design                      | 1997-1999 Catalog                         | Page 62 |
| Electronics Technology                   | Addendum I                                | Page 19 |
| Fire Science Technology                  | 1997-1999 Catalog                         | Page 64 |
| Hospitality<br>Administration            | 1997-1999 Catalog                         | Page 65 |
| Media Communications                     | 1997-1999 Catalog                         | Page 69 |
| Network Management                       | Addendum II                               | Page 19 |
| Nursing                                  | 1997-1999 Catalog                         | Page 70 |
| Paramedicine                             | Addendum I                                |         |
| Powerplant Operation                     | 1997-1999 Catalog                         | Page 72 |
| Professional Administrative<br>Assistant | 1997-1999 Catalog                         | Page 73 |
| Professional Pilot<br>Technology         | 1997-1999 Catalog                         | Page 58 |
| Social Services                          | 1997-1999 Catalog                         | Page 78 |
| Welding Technology                       | 1997-1999 Catalog                         | Page 79 |

**CERTIFICATES**

|   |                   |         |
|---|-------------------|---------|
| Avionics Technology                       | 1997-1999 Catalog | Page 80 |
| Building Maintenance**                    | 1997-1999 Catalog | Page 89 |
| Business Machine Repair                   | Deleted           |         |
| Business Skills**                         | 1997-1999 Catalog | Page 89 |
| Certified Public Manager                  | 1997-1999 Catalog | Page 80 |
| Chef de Cuisine-<br>Food Preparation      | Addendum I        |         |
| Chef Garde-Manger                         | Addendum I        |         |
| Chef Patissier-Bakers                     | Addendum I        |         |
| Computer Programmer                       | 1997-1999 Catalog | Page 81 |
| Computerized Office<br>Applications       | 1997-1999 Catalog | Page 84 |
| Consumer Electronics<br>Repair**          | 1997-1999 Catalog | Page 90 |
| Correctional Officer Training<br>Academy  | 1997-1999 Catalog | Page 82 |
| Custodial Services<br>Certificate**       | Addendum I        |         |
| Drafting and Design                       | 1997-1999 Catalog | Page 82 |
| Equine Science and<br>Management          | 1997-1999 Catalog | Page 83 |
| Entrepreneurship/Small Bus.<br>Management | Addendum I        |         |
| Fire Science<br>Technology                | 1997-1999 Catalog | Page 83 |
| General Business                          | Addendum I        |         |
| General Electronics<br>Technician**       | 1997-1999 Catalog | Page 90 |
| Hospitality<br>Administration             | 1997-1999 Catalog | Page 83 |
| International<br>Communications           | 1997-1999 Catalog | Page 84 |
| International<br>Management               | Addendum I        |         |

|  |                                  |         |
|--|----------------------------------|---------|
| Medical Transcriptionist<br>Management | 1997-1999 Catalog<br>Addendum II | Page 85 |
| Microcomputer<br>Practitioner          | 1997-1999 Catalog                | Page 81 |
| Motor Transport<br>Technology          | 1997-1999 Catalog                | Page 84 |
| Network Administrator                  | 1997-1999 Catalog                | Page 81 |
| Network Support                        | Addendum II                      | Page 20 |
| Nursing Assistant                      | 1997-1999 Catalog                | Page 84 |
| Office Assistant                       | 1997-1999 Catalog                | Page 85 |
| On-Line International<br>Business      | Addendum I                       |         |
| Paralegal Studies                      | 1997-1999 Catalog                | Page 86 |
| Paramedicine                           | Addendum II                      |         |
| PC Maintenance and<br>Repair           | Addendum II                      | Page 20 |
| Principles of Technology               | Deleted                          |         |
| Print Media Arts                       | 1997-1999 Catalog                | Page 86 |
| Receptionist                           | 1997-1999 Catalog                | Page 87 |
| Social Services                        | 1997-1999 Catalog                | Page 88 |
| Sous Chef                              | Addendum I                       |         |
| Supervisory<br>Management              | Addendum II                      | Page 21 |
| Teacher Aid I and II                   | Addendum I                       |         |
| UNIX System<br>Administrator           | Addendum I                       |         |
| Welding Technology                     | 1997-1999 Catalog                | Page 88 |
| Workplace English                      | 1997-1999 Catalog                | Page 88 |
| Workplace Spanish                      | 1997-1999 Catalog                | Page 89 |

Associate of Applied Science and Certificate Programs are described in the 1997-1999 catalog. Changes and additions to AAS and Certificate programs are listed in Addendum I and II.

|                        |             |             |
|------------------------|-------------|-------------|
| <b>NEW COURSES</b>     | Addendum II | Pages 22-23 |
| <b>PROGRAM</b>         |             |             |
| <b>DELETIONS</b>       | Addendum II | Page 24     |
| <b>APPENDIX A-TGXR</b> |             |             |
| <b>UNIVERSITY</b>      |             |             |
| <b>MAJORS</b>          | Addendum II | Pages 25-26 |

\*Under construction

\*\*Designed for the inmates of the Arizona Department of Corrections in Douglas

# NEW DEGREE OVERVIEW

## ASSOCIATE OF ARTS (AA)

AA transfers as a block of 64 credits to Arizona public universities.

| General Education Requirements (AGEC-A)                                 |                   | Credits |
|---|-------------------|---------|
| Composition   | ENG 101, 102      | 6       |
| Mathematics   | MAT 151 or higher | 3-5     |
| Laboratory Science  |                   | 8       |
| Arts (A)  |                   | 3       |
| Humanities (H)  |                   | 3       |
| Social and Behavioral Sciences (SBS)                                    |                   | 6       |
| Information Literacy  | CIS 116, 120*     | 3       |
| General Education Elective  |                   | 1-3     |
| Total General Education Requirements                                    |                   | 35      |
| 6 credits of A/H/SBS must be Intensive Writing/Critical Inquiry Courses |                   |         |
| Language Requirement*   |                   |         |
| Non-English Language 4th Semester Proficiency                           |                   | 16      |
| Area of Emphasis or Electives   |                   | 13      |
| Total Degree Requirements   |                   | 64      |

## ASSOCIATE OF BUSINESS (ABUS)

ABus transfers as a block of 64 credits to Arizona public universities.

| General Education Requirements (AGEC-B)                                 |               | Credits |
|---|---------------|---------|
| Composition   | ENG 101, 102  | 6       |
| Mathematics   | MAT 212       | 3       |
| Laboratory Science  |               | 8       |
| Arts (A)  |               | 3       |
| Humanities (H)  |               | 3       |
| Social and Behavioral Sciences (SBS)                                    |               | 6       |
| Information Literacy  | CIS 116, 120* | 3       |
| General Education Elective  |               | 3       |
| Total General Education Requirements                                    |               | 35      |
| 6 credits of A/H/SBS must be Intensive Writing/Critical Inquiry Courses |               |         |
| Area of Emphasis  |               | 29      |
| Total Degree Requirements   |               | 64      |

## ASSOCIATE OF SCIENCE (AS)

AS transfers as a block of 64 credits to Arizona public universities.

| General Education Requirements (AGEC-S)                                 |   | Credits |
|---|---|---------|
| Composition   | ENG 101, 102                                    | 6       |
| Mathematics   | MAT 220 or higher                               | 3-5     |
| Laboratory Science  | PHY 230/231 or<br>CHM 151/152 or<br>BIO 184/190 | 8       |
| Arts (A)  |   | 3       |
| Humanities (H)  |   | 3       |
| Social and Behavioral Sciences (SBS)                                    |   | 6       |
| Information Literacy  | CIS 116, 120*                                   | 3       |
| General Education Elective  |   | 1-3     |
| Total General Education Requirements                                    |   | 35      |
| 6 credits of A/H/SBS must be Intensive Writing/Critical Inquiry Courses |   |         |
| Area of Emphasis  |   | 29      |
| Total Degree Requirements   |   | 64      |

## ASSOCIATE OF GENERAL STUDIES (AGS)

Not intended for Arizona public university transfer as a block of credit

| General Education Requirements  |   | Credits |
|---|---|---------|
| Composition   | ENG 101 and one of the following: ENG 102, ENG 109, ENG 167, or ENG/CIS 279 | 6       |
| Mathematics   | MAT 122 or higher   | 3       |
| Laboratory Science  |   | 4       |
| Arts (A)  |   | 3       |
| Humanities (H)  |   | 3       |
| Social and Behavioral Sciences (SBS)                                    |   | 6       |
| Information Literacy  | CIS 116, 120*   | 3       |
| Foreign Language or Communications                                      |   | 3-4     |
| General Education Elective  |   | 3-4     |
| Total General Education Requirements                                    |   | 35      |
| 6 credits of A/H/SBS must be Intensive Writing/Critical Inquiry Courses |   |         |
| Electives   |   | 29      |
| Total Degree Requirements   |   | 64      |

\*Students testing out of this requirement may choose elective credits

- Elective courses for the AA, ABUS, and AS must be transferable to all three Arizona public universities.
- Courses included in the AA, AS or ABUS degrees must be completed with a grade of C or better
- 12th grade reading equivalency is required for all Cochise College Degrees

# DEGREE REQUIREMENTS

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## **AA, AS, ABUS**

All courses in an AA, AS, or ABUS degree must be completed with a "C" or better and must be transferable to all Arizona public universities.

## **AGS**

AGS degree requires a cumulative GPA of 2.0 or higher. Composition and mathematics courses used to meet general education requirements must have a grade of "C" or higher.

## **READING COMPETENCIES**

Minimum Reading Competencies for students earning all degrees must meet one of the following criteria:

### **For Native Speakers:**

Score 12.0 or higher on standardized reading test

Cumulative GPA of 3.0 for courses at the 100 level or above at the time of degree check

Completion of a reading course with a grade of "C" or better in which competency for the course is a 12.0 grade level or higher

### **For Non-native Speakers of English:**

Any of the above as stated for native speakers of English

A TOEFL score of 500 level or above including a score of 50 on Section Three

Petition to a permanent standing committee comprised of an ESL representative, a reading representative and the appropriate instructional manager



# AGEC TRANSFER BLOCKS

AGEC stands for Arizona General Education Curriculum. The AGECE is a statewide agreement between Arizona public community colleges and universities.

AGEC is a 35 credit general education curriculum block that fulfills the lower division general education requirements at any Arizona public community college or university.

The AGECE has three forms, the AGECE-A, AGECE-B, and AGECE-S.

## AGECE-A

### General Education Requirements

|                                      |                      | Credits |
|--------------------------------------|----------------------|---------|
| Composition                          | ENG 101, 102         | 6       |
| Mathematics                          | MAT 151<br>or higher | 3-5     |
| Laboratory Science                   |                      | 8       |
| Arts                                 |                      | 3       |
| Humanities                           |                      | 3       |
| Social and Behavioral Sciences       |                      | 6       |
| Information                          |                      |         |
| Literacy                             | CIS 116, 120*        | 3       |
| General Education Elective           |                      | 1-3     |
| Total General Education Requirements |                      | 35      |

## AGECE-A

The AGECE-A is a 35 credit block that fulfills the lower division general education requirements for university arts/liberal studies majors such as English, Social Science, Fine Arts, and Humanities. The block will transfer without loss of credit to any Arizona public community college or university.

## AGECE-B

### General Education Requirements

|                                      |               | Credits |
|--------------------------------------|---------------|---------|
| Composition                          | ENG 101, 102  | 6       |
| Mathematics                          | MAT 212       | 3       |
| Laboratory Science                   |               | 8       |
| Arts                                 |               | 3       |
| Humanities                           |               | 3       |
| Social and Behavioral Sciences       |               | 6       |
| Information                          |               |         |
| Literacy                             | CIS 116, 120* | 3       |
| General Education Elective           |               | 3       |
| Total General Education Requirements |               | 35      |

## AGECE-B

The AGECE-B is a 35 credit block that fulfills the lower division general education requirements for university business/information systems majors. The block will transfer without loss of credit to any Arizona public community college or university.

## AGECE-S

### General Education Requirements

|                                      |  | Credits |
|--------------------------------------|--|---------|
| Composition                          | ENG 101, 102                                       | 6       |
| Mathematics                          | MAT 220*   | 3-5     |
| Laboratory Science                   | BIO 184/190<br>OR PHY 230/231<br>OR<br>CHM 151/152 | 8       |
| Arts                                 |  | 3       |
| Humanities                           |  | 3       |
| Social and Behavioral Sciences       |  | 6       |
| Information                          |  |         |
| Literacy                             | CIS 116, 120*                                      | 3       |
| General Education Elective           |  | 1-3     |
| Total General Education Requirements |  | 35      |

## AGECE-S

The AGECE-S is a 35 credit block that fulfills the lower division general education requirements for university math and science majors. The block will transfer to any Arizona public community college or university.

\*Students testing out of this requirement may choose general education elective credit

### IMPORTANT TO KNOW

A list of courses to fulfill area requirements is found on page 18. The General Education Elective must also be selected from this list.

Courses included in the AGECE block transfer must be completed with a grade of "C" or better.

A course can have dual use. It may be used to fulfill both an AGECE requirement and a common course requirement in the associates degree. Total credits toward a degree are not waived.

### TRANSFER GUIDE - EXCEPTIONAL REQUIREMENTS: TG-XR FOR TRANSFER STUDENTS IN PROFESSIONAL FIELDS (SEE APPENDIX A)

This option is for students who have decided on a university major in which the program requirements or prerequisites are so specific that a student must closely follow a university transfer guide. Students should not complete an AGECE block or associates degree. Majors in professional fields (for example, architecture, engineering, health professions, etc.) may have specific program requirements that must be completed before admission to the professional program. University transfer is on a course by course basis, not as a block transfer. See a Cochise College Counselor or Advisor for more information. See Appendix A at the end of the Addendum, pages 25-26.



# ASSOCIATE OF ARTS

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This degree is for students who are transferring to a university as a liberal arts major.

The Associate of Arts degree transfers as a block of 64 credits to all Arizona public universities.

Students will transfer with junior standing without loss of credit and complete 56 units for a total of 120 credits for most degrees.

If a student is transferring to a private Arizona university, or an out-of-state university, their transfer credits will be evaluated on a course by course basis.

**The Associate of Arts degree has 2 possible pathways:**

Associate of Arts-General Requirements is for students who have not decided on a major

Associate of Arts-Special Requirements is for students who have decided on a major.

## ASSOCIATE OF ARTS - GENERAL REQUIREMENTS (AA-GR)

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### ASSOCIATE OF ARTS

#### General Requirements (AA-GR)

| General Education Requirements (AGEC-A)     | Credits   |
|---|-----------|
| Composition            ENG 101, 102         | 6         |
| Mathematics            MAT 151 or higher    | 3-5       |
| Laboratory Science                          | 8         |
| Arts  | 3         |
| Humanities                                  | 3         |
| Social and Behavioral Sciences              | 6         |
| Information Literacy    CIS 116, 120*       | 3         |
| General Education Elective                  | 1-3       |
| <b>Total General Education Requirements</b> | <b>35</b> |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

|  |           |
|--|-----------|
| Language Requirement*                            |           |
| Non-English Language    4th Semester Proficiency | 16        |
| Electives**                                      | 13        |
| <b>Total Degree Requirements</b>                 | <b>64</b> |

\*Students testing out of this requirement may choose elective credits.

\*\*Elective courses must be transferable to all three Arizona public universities.

### LANGUAGE PROFICIENCY REQUIREMENT

Students are required to demonstrate language proficiency through coursework, transfer, credit by examination, and/or native language proficiency. Cochise College offers the following coursework: German, Latin, French and Spanish at the 101 and higher level.

### EXPLORATORY COURSEWORK

#### WITHIN THE AA-GR

You can complete exploratory coursework at Cochise College in three ways:

1. Choose courses from the area of emphasis in any transfer degree (AA, ABUS, AS)
2. Take any course of interest to you that is transferable to all three universities
3. Select coursework from the following areas  
Anthropology  
Art  
Economics  
English  
Geography  
History  
Humanities  
Journalism & Media Arts  
Philosophy  
Political Science  
Psychology  
Sociology

**Anthropology:**

- ANT 101 Origin and Antiquity of Man
- ANT 102 Society and Culture

**Art:**

- ART 107 Survey of World Art: Prehistoric-Gothic
- ART 108 Survey of World Art: Renaissance through the Twentieth Century

**Economics:**

- ECN 201 Principles of Macroeconomics
- ECN 202 Principles of Microeconomics

**English:**

- ENG 220 British Literature I
- ENG 221 British Literature II

**Geography:**

- GEO 101 Physical Geography
- GEO 102 Cultural Geography
- GEO 121 World Regional Geography
- MAT 172 Finite Mathematics

**History:**

- HIS 110 History of the United States, 1607-1877
- HIS 111 History of the United States Since 1877
- POS 110 American National Government
- POS 230 World Politics

**Humanities:**

- Any Humanities Elective Course/No Common Core Classes

**Journalism & Media Arts:**

- COM 110 Public Speaking
- JRN 101 Mass Media
- JRN 102 Basic Reporting

**Philosophy:**

- PHI 111 Introduction to Philosophy
- PHI 113 Introduction to Logic and Language

**Political Science:**

- POS 110 American National Government
- POS 230 World Politics

**Psychology:**

- PSY 101 Introduction to Psychology
- PSY 230 Social Psychology
- PSY 250 Introduction to Psychological Research, Measurements & Statistics
- PSY 290 Experimental Psychology

**Sociology:**

- SOC 101 Introduction to Sociology
- SOC 160 Ethnic Groups and Minorities
- SOC 210 Marriage and Family
- SOC 202 Social Problems
- SOC 212 Women & Men in a Changing Society



# ASSOCIATE OF ARTS - SPECIAL REQUIREMENTS (AA-SR)

The Associate of Arts-Special Requirements (AA-SR) pathway is for students who have decided on their university major. For the following university majors you are required to take specific common courses.

Administration of Justice  
Art  
Fine Art  
English  
Exercise Science, Health, Physical Education,  
Recreation and Wellness  
Family and Consumer  
Sciences

History  
Journalism and Media Arts  
Language  
Political Science  
Psychology  
Social Work  
Sociology

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in Administration of Justice

| General Education Requirements (AGEC-A) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 151 or higher | 3-5     |
| Laboratory Science                      |                   | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective              |                   | 1-3     |
| Total General Education Requirements    |                   | 35      |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

|                          |    |
|--------------------------|----|
| Language Requirement*    |    |
| Non-English Language     |    |
| 4th Semester Proficiency | 16 |

#### Common Courses

|  |         |           |
|--|---------|-----------|
| Introduction to Administration<br>of Justice | AJS 101 | 3         |
| Substantive<br>Criminal Law                  | AJS 109 | 3         |
| Procedural Criminal Law                      | AJS 260 | 3         |
| Crime and Delinquency                        | AJS 225 | 3         |
| Elective**                                   |         | 1         |
| Total Common Courses                         |         | 13        |
| <b>Total Degree Requirements</b>             |         | <b>64</b> |

\*Students testing out of this requirement may choose 16  
elective credits.

\*\*Elective courses must be transferable to all three Ari-  
zona public universities.

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in Art

| General Education Requirements (AGEC-A) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 151 or higher | 3-5     |
| Laboratory Science                      |                   | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective              |                   | 1-3     |
| Total General Education Requirements    |                   | 35      |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

|                          |    |
|--------------------------|----|
| Language Requirement*    |    |
| Non-English Language     |    |
| 4th Semester Proficiency | 16 |

#### Common Courses:

|                                  |         |           |
|----------------------------------|---------|-----------|
| Survey of World Art              | ART 107 | 3         |
| Survey of World Art              | ART 108 | 3         |
| Electives                        | ART**   | 7         |
| Total Common Courses             |         | 13        |
| <b>Total Degree Requirements</b> |         | <b>64</b> |

\*Students testing out of this requirement may choose 16  
elective credits.

\*\*Elective courses must be transferable to all three Ari-  
zona public universities.

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in Fine Art

| General Education Requirements (AGEC-A) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 151 or higher | 3-5     |
| Laboratory Science                      |                   | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective              |                   | 1-3     |
| Total General Education Requirements    |                   | 35      |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

#### Language Requirement\*

##### Non-English Language

|                          |    |
|--------------------------|----|
| 4th Semester Proficiency | 16 |
|--------------------------|----|

#### Common Courses:

Select 13 credits from:

|                           |         |    |
|---------------------------|---------|----|
| Survey of World Art       | ART 107 | 3  |
| Survey of World Art       | ART 108 | 3  |
| Two Dimensional Drawing   | ART 103 | 3  |
| Drawing I                 | ART 107 | 3  |
| Three Dimensional Drawing | ART 231 | 3  |
| Elective                  |         | 1  |
| Total Common Courses      |         | 13 |

NOTE: ART 107 and/or ART 108 must be taken in the General Education Block or student will exceed 64 credits to obtain Associates Degree.

#### Total Degree Requirements **64**

\*Students testing out of this requirement may choose 16 elective credits.

\*\*Elective courses must be transferable to all three Arizona public universities.

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in English

| General Education Requirements (AGEC-A) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 151 or higher | 3-4     |
| Laboratory Science                      |                   | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective              |                   | 1-3     |
| Total General Education Requirements    |                   | 35      |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

#### Language Requirement\*

##### Non-English Language

|                          |    |
|--------------------------|----|
| 4th Semester Proficiency | 16 |
|--------------------------|----|

#### Common Courses

|                           |         |           |
|---------------------------|---------|-----------|
| British Literature I      | ENG 220 | 3         |
| British Literature II     | ENG 221 | 3         |
| Select 3 credits from:    |         | 3         |
| American Literature I     | ENG 224 | 3         |
| American Literature II    | ENG 225 | 3         |
| Major American Writers    | ENG 265 | 3         |
| Electives**               |         | 4         |
| Total Common Courses      |         | 13        |
| Total Degree Requirements |         | <b>64</b> |

\*Students testing out of this requirement may choose elective credits.

\*\*Elective courses must be transferable to all three Arizona public universities.

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in Exercise Science, Health, & Physical Education, Recreation and Wellness

#### General Education Requirements (AGEC-A) Credits

|                                      |                   |     |
|--------------------------------------|-------------------|-----|
| Composition                          | ENG 101, 102      | 6   |
| Mathematics                          | MAT 151 or higher | 3-5 |
| Laboratory Science                   |                   | 8   |
| Arts                                 |                   | 3   |
| Humanities                           |                   | 3   |
| Social and Behavioral Sciences       |                   | 6   |
| Information Literacy                 | CIS 116, 120*     | 3   |
| General Education Elective           |                   | 1-3 |
| Total General Education Requirements |                   | 35  |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

#### Language Requirement\*

##### Non-English Language

|                          |    |
|--------------------------|----|
| 4th Semester Proficiency | 16 |
|--------------------------|----|

#### Common Courses

|                                 |         |           |
|---------------------------------|---------|-----------|
| Human Anatomy and Physiology I  | BIO 201 | 4         |
| Human Anatomy and Physiology II | BIO 202 | 4         |
| Electives**                     |         | 5         |
| Total Common Courses            |         | 13        |
| Total Degree Requirements       |         | <b>64</b> |

\*Students testing out of this requirement may choose elective credits.

\*\*Elective courses must be transferable to all three Arizona public universities.

BIO 201 and BIO 202 could be used as general education lab science. Total credits are not waived.

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in Family and Consumer Sciences

| General Education Requirements (AGEC-A) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 151 or higher | 3-5     |
| Laboratory Science                      |                   | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective              |                   | 1-3     |
| Total General Education Requirements    |                   | 35      |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

|                          |    |
|--------------------------|----|
| Language Requirement*    |    |
| Non-English Language     |    |
| 4th Semester Proficiency | 16 |

#### Common Courses

|                       |         |    |
|-----------------------|---------|----|
| Marriage and Family   | SOC 210 | 3  |
| Childhood Development | FCS 184 | 3  |
| Developmental         |         |    |
| Psychology            | PSY 240 | 3  |
| Nutrition             | FON 101 | 3  |
| Elective**            |         | 1  |
| Total Common Courses  |         | 13 |

Recommended elective: COM 110 Public Speaking.

#### Total Degree Requirements 64

\*Students testing out of this requirement may choose elective credits.

\*\*Elective courses must be transferable to all three Arizona public universities.

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in History

| General Education Requirements (AGEC-A) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 151 or higher | 3-5     |
| Laboratory Science                      |                   | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective              |                   | 1-3     |
| Total General Education Requirements    |                   | 35      |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

Language Requirement\*

|                          |    |
|--------------------------|----|
| Non-English Language     |    |
| 4th Semester Proficiency | 16 |

#### Common Courses

|   |         |    |
|---|---------|----|
| Select 13 credits from                  |         | 13 |
| History of the United States, 1607-1877 | HIS 110 | 3  |
| History of the United States Since 1877 | HIS 111 | 3  |
| Survey of Western Civilization I        | HIS 140 | 3  |
| Survey of Western Civilization II       | HIS 141 | 3  |
| Survey of Western Civilization III      | HIS 142 | 3  |
| Elective                                |         | 1  |
| Total Common Courses                    |         | 13 |

Recommend taking one of the history classes above as part of the AGECE block.

#### Total Degree Requirements 64

\*Students testing out of this requirement may choose elective credits

\*\*Elective courses must be transferable to all three Arizona public universities

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in Journalism and Media Arts

| General Education Requirements (AGEC-A) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 151 or higher | 3-5     |
| Laboratory Science                      |                   | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective              |                   | 1-3     |
| Total General Education Requirements    |                   | 35      |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

|                          |    |
|--------------------------|----|
| Language Requirement*    |    |
| Non-English Language     |    |
| 4th Semester Proficiency | 16 |

### Common Courses

|                                  |         |           |
|----------------------------------|---------|-----------|
| Intro to Mass Communications     | JRN 101 | 3         |
| Basic Reporting                  | JRN 102 | 3         |
| Public Speaking                  | COM 110 | 3         |
| Electives**                      |         | 4         |
| Total Common Courses             |         | 13        |
| <b>Total Degree Requirements</b> |         | <b>64</b> |

\*Students testing out of this requirement may choose elective credits.

\*\*Elective courses must be transferable to all three Arizona public universities.

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in Language

| General Education Requirements (AGEC-A) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 151 or higher | 3-5     |
| Laboratory Science                      |                   | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective              |                   | 1-3     |
| Total General Education Requirements    |                   | 35      |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

|                          |    |
|--------------------------|----|
| Language Requirement*    |    |
| Non-English Language     |    |
| 4th Semester Proficiency | 16 |

### Common Courses

|   |         |           |
|---|---------|-----------|
| Select 12 credits from:                           |         | 12        |
| Introduction to the English Language              | ENG 255 |           |
| OR Introduction to Linguistics                    | LIN 101 | 3         |
| Introduction to Spanish Literature I              | SPA 220 | 3         |
| Introduction to Spanish Literature II             | SPA 221 | 3         |
| Introduction to Mexican Literature I              | SPA 224 | 3         |
| Introduction to Mexican Literature II             | SPA 225 | 3         |
| Intermediate Spanish Conversation and Composition | SPA 275 | 3         |
| Intermediate Composition and Conversation         | SPA 276 | 3         |
| Elective**  |         | 1         |
| Total Common Courses                              |         | 13        |
| <b>Total Degree Requirements</b>                  |         | <b>64</b> |

\*Students testing out of this requirement may choose elective credits.

\*\*Elective courses must be transferable to all three Arizona public universities.

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in Political Science

| General Education Requirements (AGEC-A) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 151 or higher | 3-5     |
| Laboratory Science                      |                   | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective              |                   | 1-3     |
| Total General Education Requirements    |                   | 35      |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

|                          |    |
|--------------------------|----|
| Language Requirement*    |    |
| Non-English Language     |    |
| 4th Semester Proficiency | 16 |

### Common Courses

|                                  |         |           |
|----------------------------------|---------|-----------|
| American National Government     | POS 110 | 3         |
| World Politics                   | POS 230 | 3         |
| Comparative Politics             | POS 240 | 3         |
| Electives**                      |         | 4         |
| Total Common Courses             |         | 13        |
| <b>Total Degree Requirements</b> |         | <b>64</b> |

\*Students testing out of this requirement may choose elective credits.

\*\*Elective courses must be transferable to all three Arizona public universities.

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in Psychology

| General Education Requirements (AGEC-A) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 151 or higher | 3-5     |
| Laboratory Science                      |                   | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective              |                   | 1-3     |
| Total General Education Requirements    |                   | 35      |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

Language Requirement\*

Non-English Language

4th Semester Proficiency 16

#### Common Courses

|  |         |           |
|--|---------|-----------|
| Introduction to Psychology                                       | PSY 101 | 3         |
| Social Psychology  | PSY 210 | 3         |
| Introduction to Psychological Research, Measurement & Statistics | PSY 250 | 3         |
| Experimental Psychology  | PSY 290 | 3         |
| Electives**  |         | 1         |
| Total Common Courses   |         | 13        |
| <b>Total Degree Requirements</b>                                 |         | <b>64</b> |

\*Students testing out of this requirement may choose elective credits.

\*\*Elective courses must be transferable to all three Arizona public universities.

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in Social Work

| General Education Requirements (AGEC-A) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 151 or higher | 3-5     |
| Laboratory Science                      |                   | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective              |                   | 3       |
| Total General Education Requirements    |                   | 35      |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

Language Requirement\*

Non-English Language

4th Semester Proficiency 16

#### Common Courses

|   |         |           |
|---|---------|-----------|
| Introduction to Psychology  | PSY 101 | 3         |
| Introduction to Social Work   | SOC 207 | 3         |
| Introduction to Psychological Research, Measurement & Statistics    | PSY 250 | 3         |
| Developmental Psychology  | PSY 240 | 3         |
| Elective Course**   |         | 1         |
| Total Common Courses  |         | 13        |
| Recommended elective: PHI 111 Intro to Philosophy or PHI 130 Ethics |         |           |
| <b>Total Degree Requirements</b>                                    |         | <b>64</b> |

\*Students testing out of this requirement may choose elective credits.

\*\*Elective course must be transferable to all three Arizona public universities.

## ASSOCIATE OF ARTS

### Special Requirements

#### Emphasis in Sociology

| General Education Requirements (AGEC-A) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 151 or higher | 3-5     |
| Laboratory Science                      |                   | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective              |                   | 1-3     |
| Total General Education Requirements    |                   | 35      |

6 credits of A/H/SBS must be  
Intensive Writing/Critical Inquiry Courses

Language Requirement\*

Non-English Language

4th Semester Proficiency 16

#### Common Courses

|                                   |         |           |
|-----------------------------------|---------|-----------|
| Select 12 credits from:           |         | 12        |
| Introduction to Sociology         | SOC 101 |           |
| Ethnic Groups and Minorities      | SOC 160 | 3         |
| Social Problems                   | SOC 202 | 3         |
| Marriage and Family               | SOC 210 | 3         |
| Women & Men in a Changing Society | SOC 212 | 3         |
| Elective Course**                 |         | 1         |
| Total Common Courses              |         | 13        |
| <b>Total Degree Requirements</b>  |         | <b>64</b> |

\*Students testing out of this requirement may choose elective credits.

\*\*Elective course must be transferable to all three Arizona public universities.

# ASSOCIATE OF BUSINESS

The Associate of Business (ABus) degree transfers as a block of 64 credits to all Arizona public universities. Students will transfer with junior standing without loss of credit and complete 56 units for a total of 120 credits for most degrees.

There are two ABus transfer pathways available at Cochise College: General Business and Computer Information Systems.

## ASSOCIATE OF BUSINESS

### General Requirements

#### Emphasis in General Business

| General Education Requirements (AGEC-B) |               | Credits |
|---|---------------|---------|
| Composition                             | ENG 101, 102  | 6       |
| Mathematics                             | MAT 212       | 3       |
| Laboratory Science                      |               | 8       |
| Arts                                    |               | 3       |
| Humanities                              |               | 3       |
| Social and Behavioral Sciences          |               | 6       |
| Information Literacy                    | CIS 116, 120* | 3       |
| General Education Elective              |               | 3       |
| Total General Education Requirements    |               | 35      |

#### Common Courses

|                               |         |   |
|-------------------------------|---------|---|
| Quantitative Business         |         |   |
| Analysis                      | BUS 172 | 3 |
| Financial Accounting          | BUS 201 | 3 |
| Managerial Accounting         | BUS 202 | 3 |
| Business Statistics           | BUS 219 | 3 |
| Legal Environment of Business | BUS 233 | 3 |
| Principles of Macroeconomics  | ECN 201 | 3 |
| Principles of Microeconomics  | ECN 202 | 3 |

### CHOOSE STUDY AREA BELOW

#### General Business Study Area

|                                 |                  |         |   |
|---------------------------------|------------------|---------|---|
| Introduction to Data Processing |                  | CIS 120 | 3 |
| Business Elective               | BUS/ECN Prefix** |         | 5 |

#### Accounting Study Area

|                             |         |         |    |
|-----------------------------|---------|---------|----|
| Object Oriented Programming |         | CIS 227 | 4  |
| Programming (select one)    |         |         | 4  |
| COBOL Programming           | CIS 202 |         | 4  |
| JAVA Programming            | CIS 208 |         | 4  |
| Windows Programming         | CIS 218 |         | 4  |
| Total Common Courses        |         |         | 29 |
| Total Degree Requirements   |         |         | 64 |

\*Students testing out of this requirement may choose general education credits.

\*\*Elective courses must be transferable to all three Arizona public universities.

Note: ABus requires Business Calculus; Calculus I, II, and/or III do not substitute for this requirement.

## ASSOCIATE OF BUSINESS

### Special Requirements

#### Emphasis in Computer Information Systems

| General Education Requirements (AGEC-B) |               | Credits |
|---|---------------|---------|
| Composition                             | ENG 101, 102  | 6       |
| Mathematics                             | MAT 212       | 3       |
| Laboratory Science                      |               | 8       |
| Arts                                    |               | 3       |
| Humanities                              |               | 3       |
| Social and Behavioral Sciences          |               | 6       |
| Information Literacy                    | CIS 116, 120* | 3       |
| General Education Elective              |               | 3       |
| Total General Education Requirements    |               | 35      |

#### Common Courses

|                              |                  |    |
|------------------------------|------------------|----|
| Quantitative Business        |                  |    |
| Analysis                     | BUS 172          | 3  |
| Financial Accounting         | BUS 201          | 3  |
| Managerial Accounting        | BUS 202          | 3  |
| Business Statistics          | BUS 219          | 3  |
| Programming (Select One)     |                  | 4  |
| C Programming                | CIS 204          | 4  |
| Object Oriented Programming  | CIS 227          | 4  |
| Programming (Select One)     |                  | 4  |
| COBOL Programming            | CIS 202          | 4  |
| JAVA Programming             | CIS 208          | 4  |
| Windows Programming          | CIS 218          | 4  |
| Principles of Macroeconomics | ECN 201          | 3  |
| Principles of Microeconomics | ECN 202          | 3  |
| Elective                     | BUS/CIS Prefix** | 3  |
| Total Common Courses         |                  | 29 |
| Total Degree Requirements    |                  | 64 |

\*Students testing out of this requirement may choose general education credits.

\*\*Elective courses must be transferable to all three Arizona public universities.



# ASSOCIATE OF SCIENCE

The Associate of Science degree is designed to transfer as a block of 64 credits to all Arizona public universities. Students will transfer with junior standing without loss of credit and complete 56 units for a total of 120 credits for most degrees. There are three AS transfer pathways available at Cochise College: Biology, Chemistry and Computer Science.

## ASSOCIATE OF SCIENCE

### Special Requirements

#### Emphasis in Biology

#### General Education Requirements (AGEC-S) Credits

|                                      |                               |     |
|--------------------------------------|-------------------------------|-----|
| Composition                          | ENG 101, 102                  | 6   |
| Mathematics                          | MAT 220 or higher             | 3-5 |
| Laboratory Science                   | PHY 230/231 OR<br>CHM 151/152 | 8   |
| Arts                                 |                               | 3   |
| Humanities                           |                               | 3   |
| Social and Behavioral Sciences       |                               | 6   |
| Information Literacy                 | CIS 116, 120*                 | 3   |
| General Education Elective**         |                               | 1-3 |
| Total General Education Requirements |                               | 35  |

#### Common Courses

|                |         |    |
|----------------|---------|----|
| Plant Biology  | BIO 184 | 4  |
| Animal Biology | BIO 190 | 4  |
| Electives**    |         | 21 |

Students are advised to take Chemistry and Biology.  
May count as AGECE or Common Courses.

|                                  |           |
|----------------------------------|-----------|
| Total Common Courses             | 29        |
| <b>Total Degree Requirements</b> | <b>64</b> |

## ASSOCIATE OF SCIENCE DEGREE

### Special Requirements

#### Emphasis in Chemistry

| General Education Requirements (AGEC-S) |                               | Credits |
|---|-------------------------------|---------|
| Composition                             | ENG 101, 102                  | 6       |
| Mathematics                             | MAT 220 or higher             | 3-5     |
| Laboratory Science                      | PHY 230/231 OR<br>CHM 151/152 | 8       |
| Arts                                    |                               | 3       |
| Humanities                              |                               | 3       |
| Social and Behavioral Sciences          |                               | 6       |
| Information Literacy                    | CIS 116, 120*                 | 3       |
| General Education Electives**           |                               | 1-3     |
| Total General Education Requirements    |                               | 35      |

#### Common Courses

|                              |                               |   |
|------------------------------|-------------------------------|---|
| General Organic Chemistry    | CHM 235                       | 4 |
| General Organic Chemistry II | CHM 236                       | 4 |
| Laboratory Science           | PHY 230/231 OR<br>CHM 151/152 | 8 |
| Calculus II                  | MAT 231                       | 4 |

|                                  |           |
|----------------------------------|-----------|
| Electives**                      | 9         |
| Total Common Courses             | 29        |
| <b>Total Degree Requirements</b> | <b>64</b> |

Students are required to take PHY 230/231 and CHM 151/152; may count as AGECE or Common Courses.

NOTE: Calculus III is recommended for university transfer, not required.

\*Students testing out of this requirement may choose general education elective credit.

\*\*Elective courses must be transferable to all three Arizona public universities.

## ASSOCIATE OF SCIENCE

### Special Requirements

#### Emphasis in Computer Science

| General Education Requirements (AGEC-S) |                   | Credits |
|---|-------------------|---------|
| Composition                             | ENG 101, 102      | 6       |
| Mathematics                             | MAT 220 or higher | 3-5     |
| Laboratory Science                      | PHY 230/231       | 8       |
| Arts                                    |                   | 3       |
| Humanities                              |                   | 3       |
| Social and Behavioral Sciences          |                   | 6       |
| Information Literacy                    | CIS 116, 120*     | 3       |
| General Education Elective**            |                   | 1-3     |
| Total General Education Requirements    |                   | 35      |

#### Common Courses

|                                   |         |           |
|-----------------------------------|---------|-----------|
| Programming Language (Select One) |         | 4         |
| C Programming                     | CIS 204 | 4         |
| JAVA Programming                  | CIS 208 | 4         |
| Data Structures                   |         |           |
| (Same Lang. as above)             | CIS 220 | 4         |
| Digital Logic                     | CIS 221 | 3         |
| Discrete Math                     | MAT 227 | 3         |
| Calculus II                       | MAT 231 | 4         |
| Calculus III                      | MAT 241 | 4         |
| Assembler w/Architecture          | CIS 206 | 4         |
| Chemistry                         | CHM 151 | 4         |
| Total Common Courses              |         | 30        |
| <b>Total Degree Requirements</b>  |         | <b>64</b> |

CIS 130 is a prerequisite for programming classes.

\*\*Elective courses must be transferable to all three Arizona public universities.

# ASSOCIATE OF GENERAL STUDIES

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The Associate of General Studies (AGS) degree is designed for students who wish to develop a program of study to meet their individual educational needs. See an advisor or counselor for additional information on the AGS degree.

## ASSOCIATE OF GENERAL STUDIES (AGS)

| General Education Requirements        |   | Credits   |
|---------------------------------------|---|-----------|
| Composition                           | ENG 101 and<br>one of the following:<br>ENG: 102, ENG 109,<br>ENG 167 or<br>ENG/CIS 279 | 6         |
| Mathematics                           | MAT 122 or higher   | 3-5       |
| Laboratory Science                    |   | 4         |
| Arts                                  |   | 3         |
| Humanities                            |   | 3         |
| Social and Behavioral Sciences        |   | 6         |
| Information Literacy                  | CIS 116, 120*   | 3         |
| Foreign Language or<br>Communications |   | 3-4       |
| General Education Elective            |   | 1-4       |
| Total General Education Requirements  |   | 35        |
| Electives                             |   | 29        |
| <b>Total Degree Requirements</b>      |   | <b>64</b> |

\*Students testing out of this requirement may choose elective credits.

- The AGS degree requires a cumulative GPA of 2.0 or higher.
- Composition and mathematics courses used to meet general education requirements must have a grade of C or better.
- Electives may be selected from any Cochise College course at or above 100 level.

# ELECTIVES FOR AA, ABUS, AS AND AGS DEGREES

There are two kinds of electives:

**General Education Elective** - Part of the 35 credit Gen Ed block. Any course in the list below or HPE179 may be used as a Gen Ed elective.

**Degree Elective** - Used to complete the 64 credit degree requirement

## COURSES WHICH MEET GENERAL EDUCATION REQUIREMENTS (GER) FOR THE AA, ABUS, AS, AND AGS

### THE LIST

Composition: ENG101, ENG102  
Mathematics: MAT151, MAT172, MAT182, MAT187, MAT212, MAT220, MAT227, MAT231, MAT241, MAT252, MAT262

Lab Science: AST180, BIO101, BIO105, BIO160, BIO183, BIO184, BIO190, BIO201, BIO202, BIO205, BIO226, CHM100, CHM130, CHM140, CHM151, CHM152, CHM235, CHM236, GEO101, GLG101, GLG102, GLG110, PHY111, PHY112, PHY230, PHY231

Social & Behavioral Sciences:\* ECN 201, ECN202, GEO102, GEO104, GEO105, GEO121, HIS110, HIS111, HIS140, HIS141, HIS142, POS100, POS220, POS230, POS240, PSY101, PSY 210, PSY230, PSY240, SOC101, SOC160, SOC202, SOC210, SOC230, SSV273

Arts:\* ART103, ART106, ART107, ART108, ART120, ART230, ART231, ART270, ART275, ART280, ART 281, ENG119, ENG219, MUS101, MUS109, MUS110, MUS133

Humanities:\* ART103, ART106, ART107, ART108, ENG209, ENG210, ENG219, ENG220, ENG221, ENG222, ENG226, ENG227, ENG228, ENG265, HUM205,

## DEGREE ELECTIVES FOR AA, ABUS, AND AS

AA, ABUS, and AS elective courses must transfer to all three Arizona public universities. Select from this list or see a Course Equivalency Guide for additional courses that transfer to all three universities. Advisors can help choose the elective courses based on the Arizona Course Equivalency Guide information.

## DEGREE ELECTIVES FOR THE AGS

Electives may be selected from any Cochise College course above 100 level.

HUM206, HUM207, JRN102, MUS102, PHI111, PHI130, PHI201, SPA221, SPA225, THE103,

Information Literacy: CIS116, CIS120

Intensive Writing/  
Critical Inquiry:\*\* ENG119, ENG209, ENG219, ENG220, ENG221, ENG222, ENG226, ENG227, ENG228, ENG265, HIS140, HIS141, HIS142, HUM205, HUM206, HUM207, PHI111, PHI130, PSY240, SOC210

General Education  
Electives: Courses that satisfy one of the areas above and HPE 179.

This list applies to new degrees effective 1/1/99.

\*Courses in the Arts, Humanities, and Social & Behavioral Sciences have content addressing ethnic/race/gender awareness, and contemporary global/international or historical awareness embedded in the coursework.

\*\*The AA, ABUS, AGS and AS require 6 credits of Intensive Writing/Critical Inquiry. Students can use Intensive Writing/Critical Inquiry courses to satisfy Arts, Humanities, Social and Behavioral Science requirements.

# NEW AAS DEGREES APPROVED SINCE 97-99 CATALOG PUBLICATION

The Associate of Applied Science (AAS) degree is designed to prepare graduates for employment in a specific career. Students should meet with an advisor or counselor to plan their program of study. The AAS degree requires a minimum of 64 credits. Please see the 1997-99 Catalog, pages 54 to 79 and Addendum I for information on AAS degrees and requirements

## ASSOCIATE OF APPLIED SCIENCE ELECTRONICS TECHNOLOGY

See AAS degree General Education minimum requirements in the Degrees and Programs section of 1997-1999 Catalog.

| General Education Requirements                           |                    | Credits |
|--|--------------------|---------|
| English Composition                                      | ENG 101            | 3       |
| Mathematics  | ELT 110 or MAT 122 | 3       |
| Mathematics  | ELT 120 or MAT 151 | 3-5     |
| Arts & Humanities and/or<br>Social & Behavioral Sciences |                    | 3       |
| General Education Electives                              |                    | 6       |
| Minimum General Education Credit Hours                   |                    | 18-19   |
| Core Curriculum  |                    | Credits |
| Introduction to<br>DC Circuits                           | ELT 105            | 3       |
| Introduction to<br>AC Circuits                           | ELT 106            | 4       |
| Semiconductors &<br>Transistors                          | ELT 122            | 4       |
| Electronic Circuits and<br>Systems                       | ELT 125            | 4       |
| Pulse Circuits   | ELT 231            | 4       |
| Digital Circuits   | ELT 233            | 4       |
| Modern Electronic<br>Devices                             | ELT 243            | 4       |
| Communications<br>Electronics                            | ELT 245            | 4       |
| Communications<br>Electronics II                         | ELT 247            | 4       |
| Microprocessors &<br>Microcomputers                      | ELT 265            | 4       |
| Electives  |                    | 3-4     |
| Total Degree Requirements                                |                    | 64      |

## ASSOCIATE OF APPLIED SCIENCE NETWORK MANAGEMENT

| General Education Requirements   |  | Credits |
|--|--|---------|
| English Composition  | ENG 101 OR<br>Applied Technical Writing<br>ENG 179 | 3       |
| Advanced Applied<br>Technical Writing                                      | ENG 279  | 3       |
| Mathematics  | MAT 122 and above                                  | 3       |
| Digital Logic  | CIS 221  | 3       |
| Arts & Humanities or<br>Social & Behavior Science                          |  | 3       |
| Reading Competency   |  |         |
| Minimum General Education Credit Hours                                     |  | 15      |
| Core Curriculum  |  |         |
| Introduction to Operating<br>Systems                                       | CIS 140  | 4       |
| PC and Printer Support   | CIS 142  | 3       |
| Essentials of Networking   | CIS 150  | 3       |
| Computer Applications  | CIS 181  | 3       |
| Service and Maintenance<br>of Personal Computers                           | CIS 260  | 3       |
| Network Support and<br>Troubleshooting                                     | CIS 262  | 4       |
| Technical Presentations  | OAD 268  | 3       |
| Field Experience in CIS  | CIS 294  | 3       |
| Technology Unit Approved Electives   |  | 6       |
| Network Tracks   |  |         |
| (Select two full tracks plus introductory class of the non-selected track) |  |         |
| Track I  |  |         |
| Introduction to Novell<br>Networks   | CIS 234  | 4       |
| Novell Network<br>Management   | CIS 235  | 4       |
| Track II   |  |         |
| Network Operating<br>Systems   | CIS 236  | 4       |
| Advanced Microsoft<br>Network Management                                   | CIS 237  | 4       |
| Track III  |  |         |
| Unix Operating System  | CIS 228  | 4       |
| Unix System Administration   | CIS 229  | 4       |
| Total Network Tracks Credits   |  | 20      |
| Total Degree Requirements  |  | 66      |

# CERTIFICATES: NEW AND MODIFIED

Beginning Spring 1999, Cochise College offers the following new certificates:

Management  
Network Support  
Paramedicine  
PC Maintenance and Repair  
Supervisory Management

See the Cochise College 1997-99 catalog, pages 80 – 91 and Addendum I for a list of current certificates.

## MANAGEMENT CERTIFICATE

This Management Certificate is in response to the clearly identified need for a program that provides supervisory and management training to employees in the private and non-profit sectors and to individuals anticipating employment opportunities as supervisors or managers. This program is comparable to the Certified Public Manager Program (CPM) currently offered, to public sector employees only, by the Center for Professional Development (CPD).

|   |            |
|---|------------|
| MGT 101 or PAD 101 Management Skills                      | 2          |
| MGT 102 or PAD 102 The Manager &<br>Systems Relationships | 2          |
| MGT 103 or PAD 103 The Manager &<br>the Workgroup         | 2          |
| MGT 201 Management, Level IV                              | 3          |
| MGT 202 Management, Level V                               | 3          |
| MGT 203 Management, Level VI                              | 3          |
| ENG 101 Composition*                                      | 3          |
| Or BUS 167 Business Communications*                       | 3          |
| Recommended Electives*                                    | 3          |
| TOTAL   | 21 Credits |

\*Requirement waived for individuals holding an AA/AS degree or higher.

### Recommended Electives

SOC 101 Intro to Sociology  
BUS 201 Financial Accounting  
PSY 101 Intro to Psychology  
BUS 202 Managerial Accounting  
SOC 207 Intro to Social Welfare  
BUS 145 Principles of Accounting  
CIS 181 Computer Applications

## NETWORK SUPPORT CERTIFICATE

### Core Curriculum

|   |    |
|---|----|
| CIS 221 Digital Logic                         | 3  |
| CIS 140 Introduction to Operating Systems     | 3  |
| CIS 142 PC and Printer Support                | 3  |
| CIS 150 Essentials of Networking              | 3  |
| CIS 234 Introduction to Novell Networks       | 4  |
| CIS 235 Novell Network Management             | 4  |
| CIS 236 Network Operating Systems             | 4  |
| CIS 237 Advanced Microsoft Network Management | 4  |
| CIS 262 Network Support and Troubleshooting   | 4  |
| CIS 260 Service and Maintenance of PC         | 3  |
| CIS 294 Field Experience in CIS               | 1  |
| TOTAL   | 36 |

## PARAMEDICINE CERTIFICATE

The Paramedicine Certificate Program meets the needs of those students desiring only Arizona Department of Health Services certification as a Paramedic or those students who desire an interim recognition of academic achievement as they continue to pursue the AAS degree in Paramedicine. Cochise College has obtained ADHS certification as an institutional provider of Paramedicine training.

|                          |            |
|--------------------------|------------|
| EMT 201 Paramedicine I   | 12         |
| EMT 202 Paramedicine II  | 14         |
| EMT 203 Paramedicine III | 2          |
| TOTAL                    | 28 Credits |

## PC MAINTENANCE AND REPAIR CERTIFICATE

|  |            |
|--|------------|
| CIS 140 Intro to Operating Systems     | 3          |
| CIS 142 PC and Printer Support         | 3          |
| CIS 150 Essentials of Networking       | 3          |
| CIS 260 Service and Maintenance of PCs | 3          |
| CIS 294 Field Experience in CIS        | 2          |
| TOTAL                                  | 14 Credits |

# **SUPERVISORY MANAGEMENT CERTIFICATE**

The Supervisory Management Certificate program is designed to provide the knowledge and analytical skills necessary to effectively meet the challenges and opportunities facing supervisors and managers in the workplace. This program provides the skills necessary to manage resources and personnel in a rapidly changing work environment. Upon successful completion of program requirements, students will receive a certificate in supervisory management.

**Prerequisite:** Sponsorship by a government agency or private/non-profit organization, a current supervisory or management position or potential for appointment to a supervisory/management position.

## **Core Curriculum**

### **Intro to Management**

|                                |                 |    |
|--------------------------------|-----------------|----|
| Skills                         | PAD 101/MGT 101 | 2  |
| <b>The Manager and Systems</b> |                 |    |
| Relationships                  | PAD 102/MGT 102 | 2  |
| <b>The Manager and the</b>     |                 |    |
| Work Group                     | PAD 103/MGT 103 | 2  |
| English Composition*           | ENG 101         | 3  |
| Mathematics*                   | Above 100 Level | 3  |
| Recommended Electives*         |                 | 3  |
| TOTAL                          |                 | 15 |

\*Requirement waived for individuals holding an AA/AS degree or higher

Reading minimum of 11.5 grade level in accordance with standardized test scores.

# NEW COURSES

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## **CIS 208 JAVA PROGRAMMING (4)**

Prerequisites: CIS 130 or permission of instructor

A beginning course in the JAVA programming language. Topics will include object-oriented programming concepts, terminology, notation, and the syntax and semantics of the JAVA programming language.

3 hours lecture, 3 hours laboratory

## **CIS 221 DIGITAL LOGIC (3)**

Prerequisites: One semester of programming or one semester of networking.

Number systems, conversion methods, binary and complement arithmetic, Boolean and switching algebra, circuit minimizations, ROMs, PLAs, flipflops, synchronous sequential circuits, register transfer design.

3 hours lecture

**The following management courses are offered through the Center for Professional Development.**

## **MGT 101 THE INTRODUCTION TO MANAGEMENT SKILLS (2)**

Prerequisites: Sponsorship by a private or non-profit sector employer or approval of the Coordinator of the Center for Professional Development (CPD).

A practical introduction to private and non-profit sector management for first-line supervisors or potential supervisors. Focus is on communication techniques, delegation of authority, quality management, performance evaluation, discipline, and employee orientation. MGT 101- MGT 103 is offered as a single program and may not be taken individually or out of sequence. May be offered in a Pass/Fail grading format. Identical to PAD 101.

2 hours lecture.

## **MGT 102 THE MANAGER AND SYSTEM RELATIONSHIPS (2)**

Prerequisites: MGT 101

A practical study of the manager as a member of an organization with emphasis upon the processes and procedures necessary for managerial competence. Topics include management practices, employee motivation, organizational communications, budgetary systems and management, equal employment opportunity, and employee-management relations. MGT 101- MGT 103 is offered as a single program and may not be taken individually or out of sequence. May be offered in a Pass/Fail grading format. Identical to PAD 102.

2 hours lecture

## **MGT 103 THE MANAGER AND THE WORK GROUP (2)**

Prerequisites: MGT 102

A practical analysis of the manager as a group/team leader, focusing on group dynamics, behavioral analysis, group problem solving and decision making, change management, conflict management, and group interaction. MGT 101- MGT 103 is offered as a single program and may not be taken individually or out of sequence. May be offered in a Pass/Fail grading format. Identical to PAD 103.

2 hours lecture

## **MGT 201 LEADERSHIP SKILLS FOR MANAGERS (3)**

Prerequisite: Sponsorship by a private or non-profit sector employer, and successful completion of MGT 101-103 or PAD 101-103 or possession of the equivalent level of training as certified by the CPD Coordinator

A practical, in-depth study of private and non-profit sector management techniques focusing on leadership, ethics, management in a political environment, management of fiscal resources and organizational planning. Also includes the study of marketing fundamentals, marketing strategy, and linking marketing with organizational goals. MGT 201 is offered as part of a management certificate program and may not be taken as an individual course or out of sequence. May be offered in a Pass/Fair grading format.

3 hours lecture

## **MGT 202 EFFECTIVE DECISION-MAKING (3)**

Prerequisites: MGT 201

A practical, in-depth study of private sector management techniques focusing on effective decision-making, conflict management, performance evaluation and achieving organizational goals through teamwork. MGT 202 is offered as part of a management certificate program and may not be taken individually, or out of sequence.

3 hours lecture

## **MGT 203 SUCCESSFUL PROJECT MANAGEMENT (3)**

Prerequisites: MGT 202

A practical, in-depth study of private and non-profit sector management techniques focusing on project management, managing and achieving organizational goals and effectively managing organizational change. MGT 203 is offered as part of a management certificate program and may not be taken individually, or out of sequence.

3 hours lecture





# PROGRAM DELETIONS

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## **PRINCIPLES OF TECHNOLOGY CERTIFICATE**

Rationale: The Principles of Technology certificate program is a program designed for the inmates of the Arizona Department of Corrections in Douglas (ASPC-D). This program has not been offered at ASPC-Douglas since 1991 and there are no prospects that it will be offered or in demand in the foreseeable future.

## **BUSINESS MACHINE REPAIR**

Rationale: The Business Machines Repair certificate program is a program specifically designed for the inmates of the Arizona Department of Corrections in Douglas (ASPC-D). This program has not been offered at ASPC-Douglas since 1991 and there are no prospects that it will be offered or in demand in the foreseeable future.



# APPENDIX A – TG-XR UNIVERSITY MAJORS

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See a Cochise College Counselor or Advisor for transfer guide information for the following programs:

**Administration of Justice:**

- BS in Justice Studies (ASU Main)
- BS in Criminal Justice (NAU)

**Agriculture:**

- BS in Agriculture-Nutritional Sciences (UA)
- BS in Wildlife, Watershed, & Range Management (UA)

**Art:**

- BFA in Studio Arts (NAU)
- BFA in Studio Arts (UA)

**Education:**

- BA in Education (ASU Main)
  - Elementary Education
  - Secondary Education
  - Selected Studies
  - Special Education
  - Early Childhood Education
- BA in Education (ASU West)
  - Elementary Education
  - Early Childhood Education
  - Secondary Education
  - Special Education
- BS in Education (NAU)
  - Technology Education
  - Vocational Education

**Engineering:**

- BS in Aeronautical Engineering Technology (ASU Main)
- BS in Aeronautical Management Technology (ASU Main)
- BS in Electronics Engineering Technology (ASU Main)
  - BS in Industrial Technology (ASU Main)
- BS in Manufacturing Engineering Technology (ASU Main)
- BS in Engineering (ASU Main)
  - Aerospace
  - Chemical
  - Civil
  - Computer Systems
  - Electrical
  - Special Studies
  - Manufacturing (Premedical, Industrial)
  - Materials Science
  - Mechanical

- BS in Aeronautical Engineering Technology (ASU East)
- BS in Electronics Engineering Technology (ASU East)
- BS in Industrial Technology (ASU East)
- BS in Manufacturing Engineering Technology (ASU East)
- BS in Agribusiness (ASU East)
- BS in Computer Science & Engineering (NAU)
- BS in Engineering (NAU)
  - Civil
  - Electrical
  - Environmental
  - Mechanical
- BS in Construction Management (NAU)
- ES in Engineering (UA)
  - Aerospace
  - Agricultural & Biosystems
  - Chemical
  - Civil
  - Computer
  - Electrical
  - Engineering Mathematics
  - Engineering Physics
  - Geological
  - Hydrology
  - Industrial
  - Materials Science
  - Mechanical
  - Mining
  - Optical
  - Systems

**Geology:**

- ES in Geology (NAU)
- ES in Education-Earth Science (NAU)
- ES in Geosciences (UA)

**Hospitality:**

- BS in Hotel & Restaurant Management (NAU)

**Interior Design:**

- ES in Design-Interior Design (ASU Main)
- ES in Interior Design (NAU)

**Mathematics:**

- BA in Mathematics (ASU Main)
- BS in Mathematics (ASU Main)
- BS in Mathematics (NAU)
- BA in Education-Mathematics (NAU)
- BA in Mathematics (UA)
- ES in Mathematics (UA)

**Music:**

- EM in Instrumental Performance (NAU)
- BM in Music (NAU)
- BM in Vocal Music Performance (NAU)
- BME in Choral Music (NAU)
- EME in Instrumental Music (NAU)
- BA in Jazz Studies (UA)
- BA in Music Education (UA)
- BA in Musical Performance (UA)
- BA in Musical Composition (UA)

**Nursing:**

- BS in Nursing (ASU Main)
- BS in Nursing (NAU) BS in Nursing (UA)

**Sociology:**

- BA in Applied Sociology (NAU)
- BS in Applied Sociology (NAU)

**Theatre:**

- BA in Musical Theatre