COCHISE COLLEGE

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579 West Fourth Street
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Ft. Huachuca, Arizona 85613-6000
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(Hours 8:00 a.m. to 4:00 p.m.)

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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

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

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ARIZONA GENERAL EDUCATION CURRICULUM (AGEC)

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ASSOCIATE OF BUSINESS

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ASSOCIATE OF SCIENCE

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| Aviation Maintenance Technology 1997-1999 Catalog | Page 57 |
| Avionics Technology Under revision, contact Aviation Division Computer Information Systems 1997-1999 Catalog | Page 61 |
| Culinary Arts Addendum I | Page 61 |
| Drafting and Design 1997-1999 Catalog | Page 62 |
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| Fire Science Technology 1997-1999 Catalog | Page 64 |
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| Media Communications 1997-1999 Catalog | Page 69 |
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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.

**NEW COURSES**

**DELETIONS**

**APPENDIX A-TGXR**

**UNIVERSITY MAJORS**

*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 SCIENCE (AS)

AS 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 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 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 270  6
Mathematics  MAT 212 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 transferrable 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

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 AGEC 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 AGEC has three forms, the AGE-A, AGE-B, and AGE-S.

**AGEC-A**

General Education Requirements | Credits
--- | ---
Composition | ENG 101, 102 | 6
Mathematics | MAT 151 | 3-5
Laboratory Science | 8
Arts | 3
Humanities | 3
Social and Behavioral Sciences | 6
Information | 3
General Education Elective | 1-3
Total General Education Requirements | 35

**AGEC-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 | 3
General Education Elective | 3
Total General Education Requirements | 35

**AGEC-S**

General Education Requirements | Credits
--- | ---
Composition | ENG 101, 102 | 6
Mathematics | MAT 220 | 3-5
Laboratory | BIO 184/190
Science | OR PHY 230/231
Arts | 3
Humanities | 3
Social and Behavioral Sciences | 6
Information | 3
General Education Elective | 1-3
Total General Education Requirements | 35

*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 AGEC 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 AGEC 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 AGEC 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
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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<td>Composition</td>
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<td>General Education Elective</td>
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<tr>
<td>Total General Education Requirements</td>
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</tbody>
</table>

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

Language Requirement*
Non-English Language 4th Semester Proficiency  | 16
Electives**                                                | 13
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.

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

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.
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

ASSOCIATE OF ARTS
Special Requirements
Emphasis in Administration of Justice

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<thead>
<tr>
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<tr>
<td>Composition</td>
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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 of Justice AJS 101 3
Substantive
- Criminal Law AJS 109 3
- Procedural Criminal Law AJS 260 3
- Crime and Delinquency AJS 225 3
Elective** 1
Total Common Courses 13
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 Art

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<tr>
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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
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 Fine Art**  

<table>
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<td>35</td>
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</table>

- **Note:** 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:  
  - 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** | 64 |

*Students testing out of this requirement may choose elective credits.
**Elective courses must be transferable to all three Arizona public universities.*

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**ASSOCIATE OF ARTS**  
**Special Requirements**  
**Emphasis in Exercise Science, Health, & Physical Education, Recreation and Wellness**  

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- **Note:** 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** | 64 |

*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

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</tr>
<tr>
<td>Information Literacy</td>
<td>CIS 116, 120*</td>
</tr>
<tr>
<td>General Education Elective</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Total General Education Requirements**: 35

### Language Requirement*
#### Non-English Language

**4th Semester Proficiency**: 16

### Common Courses

<table>
<thead>
<tr>
<th>Select 13 credits from</th>
</tr>
</thead>
<tbody>
<tr>
<td>History of the United States, 1607-1877</td>
</tr>
<tr>
<td>History of the United States Since 1877</td>
</tr>
<tr>
<td>Survey of Western Civilization I</td>
</tr>
<tr>
<td>Survey of Western Civilization II</td>
</tr>
<tr>
<td>Survey of Western Civilization III</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>General Education Requirements (AGEC-A)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition</td>
<td>ENG 101, 102</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MAT 151 or higher</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td>8</td>
</tr>
<tr>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Information Literacy</td>
<td>CIS 116, 120*</td>
</tr>
<tr>
<td>General Education Elective</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Total General Education Requirements**: 35

### 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

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 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:
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
Electives** 1
Total Common Courses 13
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 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
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

Total Degree Requirements  64

*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:
Introduction to Sociology SOC 101  3
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

Total Degree Requirements  64

*Students testing out of this requirement may choose elective credits.
**Elective course must be transferable to all three Arizona public universities.
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

<table>
<thead>
<tr>
<th>General Education Requirements (AGEC-B)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition</td>
<td>ENG 101, 102</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MAT 212</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
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<tr>
<td>Social and Behavioral Sciences</td>
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<tr>
<td>Information Literacy</td>
<td>CIS 116, 120*</td>
</tr>
<tr>
<td>General Education Elective</td>
<td></td>
</tr>
<tr>
<td>Total General Education Requirements</td>
<td></td>
</tr>
</tbody>
</table>

#### Common Courses

| Quantitative Business                  | 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

### Accounting Study Area

| Object Oriented Programming            | CIS 227 | 4 |
| COBOL Programming                      | CIS 202 | 4 |
| JAVA Programming                       | CIS 208 | 4 |
| Windows Programming                    | CIS 218 | 4 |
| Total Common Courses                   |         | 29 |

### Total Degree Requirements

| *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.
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 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 AGEC or Common Courses.

Total Common Courses 29
Total Degree Requirements 64

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 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
General Organic Chemistry CHM 235 4
General Organic Chemistry II CHM 236 4
Laboratory Science PHY 230/231 OR CHM 151/152 8
Calculus II MAT 231 4
Electives** 9
Total Common Courses 29
Total Degree Requirements 64

Students are required to take PHY 230/231 and CHM 151/152, may count as AGEC 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
Total Degree Requirements 64

CIS 130 is a prerequisite for programming classes.

**Selective courses must be transferable to all three Arizona public universities.
ASSOCIATE OF GENERAL STUDIES

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)

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

*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.
There are two kinds of electives:

**General Education Elective** - Part of the 35 credit Gen Ed block. Any course in the list below or HPE 179 may be used as a Gen Ed elective.

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

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

**THE LIST**

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

**Mathematics:**
- 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

**Lab Science:**
- HUM206, HUM207, JRN102, MUS102, PHI111, PHI130, PHI201, SPA221, SPA225, THE103

**Social & Behavioral Sciences:**
- ECN201, ECN202, GEO102, GEO104, GEO105, GEO121, HIS110, HIS111, HIS140, HIS141, HIS142, POS100, POS220, POS230, POS240, PSY101, PSY210, PSY230, PSY240, SOC101, SOC160, SOC202, SOC210, SOC230, SSV273

**Arts:**
- ART103, ART108, ART107, ART108, ART120, ART230, ART231, ART270, ART275, ART280, ART281, ENG119, ENG219, MUS101, MUS109, MUS110, MUS133

**Humanities:**
- ART103, ART108, ART107, ART108, ENG209, ENG210, ENG219, ENG220, ENG221, ENG222, ENG226, ENG227, ENG228, ENG255, HUM205

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### 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 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.

**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, PHI240, SOC210

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

---

*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.*

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This list applies to new degrees effective 1/1/99.
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 Social & Behavioral Sciences 3
General Education Electives 6
Minimum General Education Credit Hours 18-19

Core Curriculum Credits
Introduction to DC Circuits ELT 105 3
Introduction to AC Circuits ELT 106 4
Semiconductors & Transistors ELT 122 4
Electronic Circuits and Systems ELT 125 4
Pulse Circuits ELT 231 4
Digital Circuits ELT 233 4
Modern Electronic Devices ELT 243 4
Communications Electronics ELT 245 4
Communications Electronics II ELT 247 4
Microprocessors & 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 On Applied Technical Writing ENG 179 3
Advanced Applied Technical Writing ENG 279 3
Mathematics MAT 122 and above 3
Digital Logic CIS 221 3
Arts & Humanities or Social & Behavioral Science 3
Reading Competency
Minimum General Education Credit Hours 15

Core Curriculum
Introduction to Operating 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 of Personal Computers CIS 260 3
Network Support and 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 Networks CIS 234 4
Novell Network Management CIS 235 4
Track II
Network Operating Systems CIS 236 4
Advanced Microsoft 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
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 & Systems Relationships 2
MGT 103 or PAD 103 The Manager & 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.

**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 Credits

**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

The Manager and Systems
Relationships
PAD 102/MGT 102 2

The Manager and the
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.
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/Fail 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
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 Machine 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

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 East)
BS in Aeronautical Management 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
ES in Construction Management (UA)
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