



The third paragraph on Page 22 of the **Student Services** Section should read as follows:

“COTA: Central students completing the Correctional Officers Training Academy may be awarded up to **21 credits** toward their A.A.S. - Corrections degree requirements.”

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Following are the Programs of Study represented in this Addendum:

## PROGRAMS OF STUDY

### Agriculture

Agriculture (A.A.)

Agriculture (A.S.)

### Chemistry

Chemistry (A.S.)

### Creative Arts

Fine Arts (A.A.)

### Fire Services

Firefighter Operations (Certificate) *Formerly Basic*

*Firefighters Certificate*

Fire Science Technology (A.A.S.)

Wildland Firefighter I (Certificate)

### Education

Elementary Education (A.A.E.E.)

### Geology and Planetary Science

Geology and Planetary Science (A.S.)

### Manufacturing

Field Programmable Gate Array (FPGA) Certificate

LabVIEW Programming Certificate

### Nutrition and Dietetics

Dietetic Technician (A.A.S.)

### Sports and Fitness

Athletic Studies (A.A.)

Athletic Training Education Program (A.A.)

Recreation and Tourism Management (A.A.)

## PROGRAMS WITH SPECIAL REQUIREMENTS

The following degrees and certificates also are offered at Central Arizona College; however, they have special requirements which must be fulfilled before enrollment. Please see the individual listing for specific information.

### Corrections

Advanced Corrections (Certificate)

Corrections (A.A.S.)

### Diesel/Heavy Equipment

John Deere Construction and Forestry Equipment

Technology (A.A.S.)

### Health Careers

Radiologic Technology (A.A.S.)



## DIAGNOSTIC MEDICAL SONOGRAPHY (DMS)

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EFFECTIVE SPRING 2013

*Changes to prerequisite and remove corequisite.*

### DMS131 Physics and Instrumentation Lab

*Prerequisite: DMS cohort student*

*Corequisite: DMS130.*

### DMS152 Clinical Sonography Practicum III

*Prerequisite: DMS cohort student*

*Corequisite: DMS151.*

## HUMANITIES

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*The following course has no prerequisites.*

### HMS200 Comparative Cultures and Society

## FIRE SCIENCE TECHNOLOGY

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EFFECTIVE SPRING 2013

*New Course Description and Prerequisite change.*

### FSC180 Wildland Fire, Module 1

*3 Credits (3 Lectures) POS*

Wildland Fire Module 1 is designed for individuals with little or no experience in the wildland environment and provides preparation for performing as a beginning-level wildland firefighter on an engine or hand crew. This course of instruction will provide an introduction to wildland fire prevention, fire behavior, suppression methods, equipment considerations, safety and incident command. This course encompasses the National Wildfire Coordinating Group content: S-110, S130/S190, S133, S134 and L-180. NWCG Certificate will be awarded after successful completion of the course and examination.

*General Information:*

1. Student is responsible for obtaining text book package from

the SPC-CAC book store.

2. On the first day of class, CAC provides the course tools and equipment.

3. Students are required to complete instructor-facilitated homework assignments that include the successful completion of online independent study courses.

FEMA Website: <http://training.fema.gov/IS/NIMS.asp>

Courses: National Incident Management System NIMS: IS-100.b - (ICS 100) Introduction to Incident Command Systems.

IS-700.a - National Incident Management Systems (NIMS), an Introduction.

IS-200.b - (ISC 200) ICS for Single Resource and Initial Action Incidents.

URL NWCG Website:

<http://training.nwcg.gov/courses/s110.html>

S-110, Basic Wildland Fire Orientation.

*Prerequisite: FSC129 or Program Director's consent.*

## MATHEMATICS

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*Credit value, credit breakdown and course description.*

### MAT090 Math Help 911

*1 Credits (1 Lecture)*

Instructional assistance to strengthen student's math concepts and study skills in their 082, 086 or 092 math course(s). May be repeated for a total of six (6) credits.

## NURSING

Page 215

*Clarification of prerequisites and corequisites.*

### NUR222 Nursing in Organizational Transitions

*Prerequisites: NUR221, SOC100, NTR200, BIO205, MAT141.*

*Corequisites: MAT121 or MAT141 or higher MAT course;*

*Humanities course; PAC or DAN course (1).*

## NUTRITION/DIETETICS

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*Clarification of prerequisites*

### NTR200 Human Nutrition

*Prerequisite: RDG094.*



Per Arizona State standards, Associate of Art Degree and Associate of Science Degree credit range is 60 to 64 credits.

## AGRICULTURE

### AGRICULTURE A.A.

**Total Credits: 60-64**

### AGRICULTURE A.S.

**Total Credits: 60-64**

## CHEMISTRY

### CHEMISTRY A.S.

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Clarification of AGEC-S requirements and Total Credits

**Total Credits: 60-64**

### General Education Requirements AGEC-S (35-37)

#### Subject Options (6-8)

MAT231 Calculus with Analytical Geometry II (4)  
 MAT241 Analytical Geometry and Calculus III (4)  
 MAT262 Ordinary Differential Equations (3)  
 BIO181 General Biology I (4)  
 BIO182 General Biology II (4)  
 BIO205 Microbiology (4)

## EDUCATION

### ELEMENTARY EDUCATION

#### A.A.E.E.

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Clarification of total credits required, SUN Courses as per State requirement, and computer competency course options.

**Total Credits: 60-64**

The Associate of Arts in Elementary Education (A.A.E.E.) Degree is appropriate for students who require practical and professional skills and knowledge that can lead to upper division programs in elementary and special education, and

prepares para-educators.

For a list of Common Courses associated with specific programs of study, logon to the **Common Course Matrix Archives** and select the current year or the year you completed the course(s): <http://www.aztransfer.com/MatrixArchives>.

AGEC courses are transferable to all three Arizona public universities provided students earn a grade of "C" or better. Contact an academic advisor for assistance.

### Recommended Proficiencies

Reading and math scores or courses to demonstrate college level coursework in English and math.

### AGEC-A (35-36)

The AGEC-Associate of Arts satisfies requirements in many liberal arts programs and other programs that articulate with the A.A. Degree. AGEC-A requires a minimum of College Mathematics plus 32 credits from specific AGEC categories.

For the following eight categories select the recommended courses or courses from the equivalent category on the AGEC course list in the CAC catalog.

#### Written Communications (6)

ENG101 English Composition III (3) (SUN ENG 1101)  
 ENG102 English Composition IV (3) (SUN ENG 1102)

#### Oral Communications (3)

Select an AGEC course.

#### Arts (6)

Select courses from two different AGEC-approved Art disciplines.

#### Humanities (3)

LIT291 Children's Literature for Educators (3)

(Also fulfills AGEC Intensive Writing Requirement)

#### Social and Behavioral Sciences (6)

HIS101 United States History I (3) (Also fulfills AGEC Global Requirement)

ECE276 Child Development (3)

#### Biological/Life Lab Sciences (4)

Select one of the following courses:

AGS101 World of Plants (4)  
 AGS104 Agricultural Environmental Science (4)  
 AGS106 Entomology (4)  
 AGS221 Soil Science (4)  
 AGS240 Plant Biology (4)  
 BIO100 Biology Concepts (4)  
 BIO156 Human Biology for Allied Health (4)



BIO160 Introduction to Human Anatomy/Physiology (4)  
 BIO181 General Biology I (4) (SUN BIO 1181)  
 BIO182 General Biology II (4) (SUN BIO 1182)  
 BIO201 Human Anatomy and Physiology I (4) (SUN BIO 2201)  
 BIO202 Human Anatomy and Physiology II (4) (SUN BIO 2202)  
 BIO205 Microbiology (4) (SUN BIO 2205)  
 NTR141 Nutrition and Wellness (4) *(Consult the CEG)*

### Physical Lab Sciences (4)

Select one of the following courses:

AST101 Survey of Astronomy (4)  
 CHM130 Fundamental Chemistry (4) (SUN CHM 1130)  
 CHM151 General Chemistry I (4) (SUN CHM 1151)  
 CHM152 General Chemistry II (4) (SUN CHM 1152)  
 CHM230 Fundamental Organic Chemistry (4) (SUN CHM 2230)  
 CHM235 General Organic Chemistry I (4) (SUN CHM 2235)  
 CHM236 General Organic Chemistry II (4) (SUN CHM 2236)  
 ENV101 Environmental Science (4) *(Consult the CEG)*  
 GLG101 Physical Geology (4) (SUN GLG 1101)  
 GLG102 Historical Geology (4)  
 GLG110 Environmental Geology (4)  
 PHY100 Physical Universe (4)  
 PHY111 College Physics I (4) (SUN PHY 1111)  
 PHY112 College Physics II (4) (SUN PHY 1112)  
 PHY121 University Physics I: Mechanics (4) (SUN PHY 1121)  
 PHY122 University Physics II: Electricity and Magnetism (4) (SUN PHY1131)

### Mathematics (3-4)

MAT141 College Mathematics (4) or higher

### Special Requirements (0-9)

Select AGEC courses to fulfill these requirements.

- At least three semester credits of coursework in Intensive Writing and Critical Inquiry.  
 LIT291 Children's Literature for Educators (3) *(Also fulfills AGEC Humanities Requirement)*
- At least three semester credits of coursework in Cultural Awareness (Ethnic/Race/Gender).  
 EDU230 Cultural Values in Education (3) *(Also fulfills Core Requirements)*
- At least three semester credits of coursework emphasizing Global/International Awareness or Historical Awareness.  
 HIS101 United States History I (3) *(Also fulfills AGEC Social and Behavioral Sciences Requirement)*

Note: Courses used in other areas, such as Oral Communications, Arts and Humanities, Social and Behavioral Sciences, or Transfer Electives, may also be used to satisfy the three Special Requirements categories. A course may not be used to satisfy more than one Special Requirements category.

### Core Requirements (18)

EDU221 Introduction to Education (3)  
 EDU222 Introduction to Special Education (3)  
 EDU230 Cultural Values in Education (3) *(Also fulfills AGEC Cultural Requirement)*  
 EDU240 Provisional Structured English Immersion (SEI) (3)  
 MAT201 Math for Elementary Teachers I (3)  
 MAT202 Math for Elementary Teachers II (3)

### Subject Options (0-6 credits)

Select one of the three specialty tracks below.

*Upper Elementary majors select two of the following courses:*

ENG205 Introduction to the Study of Language (3)  
 EDU225 Relationships in the Classroom (3)  
 EDU228 Behavior Management (3)

OR

*Early Childhood K-3 Teaching majors:*

ECE176 Early Childhood Development and Theories (3)  
 ECE271 Creating Early Childhood Environments (3)

OR

*Special Education majors:*

EDU225 Relationships in the Classroom (3)  
 EDU228 Behavior Management (3)

Based on your major, review the specific A.A. Degree requirements in the CAC catalog, consult an academic advisor, and see the Transfer Guides at <http://www.aztransfer.com/TransferGuides>.

### Requirements for A.A.E.E. Degree

Reading Competency (3): RDG094 College Reading (3)

### Computer Competency (3):

AGB124 Microcomputers in Agriculture (3)  
 CIS120 Survey of Computer Information Systems (3) (SUN CIS 1120)  
 OR transferable Computer Competency course *(Consult the CEG)*

Other A.A.E.E. Degree Requirements

For students who plan to transfer to a four-year baccalaureate degree program, some programs require demonstrated proficiency in a Second Language, i.e. up to 16 credits of a Second Language to demonstrate proficiency. Many four-year degrees require either a second semester or fourth semester level of a second language and strongly encourage students to complete this requirement at the community college prior to transfer.

Check your university catalog, Transfer Guides at <http://www.aztransfer.com/TransferGuides>, or meet with an academic advisor regarding your major's second language requirement. Students may demonstrate proficiency by



completion of coursework and/or a proficiency test.

Students undecided about their major are encouraged to complete a fourth semester of a Second Language. CAC offers Spanish, French, Sign Language and other Foreign Languages and Literatures. Contact an academic advisor for assistance.

Note: Some Transfer Articulation Agreements require a specific number of credits in the Arts & Humanities or the Social and Behavioral Sciences AGEC categories. Refer to the official published TAG, TAP, CAC2NAU or other articulation pathway documents for details and consult an advisor.

Students must earn a grade of "C" or better in each A.A.E.E. Degree required course. Students must earn a minimum of 20 credits from CAC including one-third of AGEC-A credits.

The A.A.E.E. requires a minimum of 60-64 credits.

## FINE ARTS A.A.

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### FINE ARTS A.A.

Total Credits: 60-64

#### Arts & Humanities (6-9)

##### Arts (6)

Fulfilled by the Core Requirements.

##### Social and Behavioral Sciences (6-9)

Select AGEC courses to fulfill this requirement from two different disciplines.

#### Subject Options (0-6)

Based on your major, review the specific A.A. Degree requirements in the CAC catalog, consult an academic advisor, and see the Transfer Guides at <http://www.aztransfer.com/TransferGuides>.

#### AGEC Special Requirements (0-9)

##### Core Requirements (30)

Fulfillment of the Core Requirements may also fulfill the AGEC – A Requirements

##### Other Requirements (3)

Grade of "C" or better in each required course  
Cumulative grade point average of at least a 2.0 on a 4.0 scale  
Minimum of 20 credits completed at CAC including AGEC-A credits.

#### Other A.A. Degree Requirements

This A.A. Degree requires 60-64 semester credits.

## FIRE SERVICES

### FIREFIGHTER OPERATIONS

#### CERTIFICATE

#### FORMERLY

#### BASIC FIREFIGHTER CERTIFICATE

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#### EFFECTIVE SPRING 2013

Total Credits: 19

Prerequisites(s): EMS125, FSC129, FSC134

#### Core Requirements (19)

FSC106 Introduction to Emergency Services (3)

FSC140 Firefighter I & II (13)

FSC180 Wildland Fire, Module I (3)

FSC238 Vehicular Extrication and Victim Stabilization (2)

#### Other Requirements

Students must earn a grade of "C" or better in all program and prerequisite courses.

Cumulative grade point average of at least a 2.0 on 4.0 scale.

Minimum of one-third of required Certificate credits completed at CAC.

## FIRE SCIENCE TECHNOLOGY A.A.S.

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Total Credits: 65

#### Optional Electives (0-4)



## WILDLAND FIREFIGHTER I CERTIFICATE

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**Total Credits: 18**

Basic education and training in Wildfire Firefighting per the requirements established by the National Wildfire Coordinating Group (NWCG) for S130/190 and Advanced Firefighter S131. Students must successfully complete FSC180 and FSC181 to qualify for the Firefighter Type I (NWCG) credential. **(Students must be employed as firefighter or wildland firefighter.)**

**Core Requirements (18)**

FSC180 Wildland Fire, Module I (3)

## GEOLOGY AND PLANETARY SCIENCE

### GEOLOGY AND PLANETARY SCIENCE

A.S.

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**Clarification of AGEC-S Requirements and Core Requirement credit total.**

**Mathematics (3)**

**Subject Options (6-8)**

**Core Requirements (20)**

**Transferable Electives (0-8)**

**Other Requirements**

**Minimum of 20 credits completed at CAC including AGEC-S credits.**

## MANUFACTURING

### FIELD PROGRAMMABLE GATE ARRAY (FPGA) CERTIFICATE

**NEW TO 2012-2013 CATALOG**

*Signal Peak Campus*

**Total Credits: 18**

The Field Programmable Gate Array (FPGA) Certificate provides the basis for an entry-level career or the professional training required of a working engineer. FPGA, embedded

fundamentals and MicroBlaze processor applications are emphasized.

### Recommended Proficiencies

Computer programming and basic electronics coursework prepare students for success in this Certificate program.

### Core Requirements (18)

ELT128	FPGA Fundamentals (3)
ELT223	Microcontroller Fundamentals (3)
ELT260	Advanced FPGA Concepts (3)
ELT265	MicroBlaze1 (3)
ELT270	MicroBlaze2 (3)
ELT275	Embedded Fundamentals (3)

### Other Requirements

Grade of "C" or higher earned in each required course  
Cumulative grade point average of at least a 2.0 on a 4.0 scale  
Minimum of one-third of required Certificate credits completed at CAC

## LABVIEW PROGRAMMING CERTIFICATE

**NEW TO 2012-2013 CATALOG**

*Signal Peak Campus*

**Total Credits: 16**

The LabVIEW Certificate provides the basis for an entry-level career in the LabVIEW programming environment using National Instruments hardware.

### Recommended Proficiencies

Computer programming and basic electronics coursework prepare students for success in this Certificate program.

### Core Requirements (16)

MET261	LabVIEW 1 Programming (3)
MET262	LabVIEW 2 Programming (3)
MET263	LabVIEW 3 Programming (3)
MET264	LabVIEW FPGA Applications (3)
MET265	LabVIEW Overview (4)

### Other Requirements

Reading Competency: RDG094 College Reading  
Grade of "C" or higher earned in each required course  
Cumulative grade point average of at least a 2.0 on a 4.0 scale  
Minimum of one-third of required Certificate credits completed at CAC.



## NUTRITION AND DIETETICS

### DIABETES CARE AND EDUCATION CERTIFICATE

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*Clarification of Course Prefix/Number and Title of NTR232A  
Food and Culture.*

NTR232A Food and Culture (1)

## SPORTS AND FITNESS

### ATHLETIC STUDIES A.A.

**Total Credits: 60-64**

### ATHLETIC TRAINING EDUCATION PROGRAM A.A.

**Total Credits: 60-64**

### RECREATION AND TOURISM MANAGEMENT A.A.

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*Clarification of AGEC-A Other Requirements.*

**Total Credits: 60-64**

**Other Requirements (4)**

This A.A. Degree requires 60-64 semester credits.

## CORRECTIONS

### ADVANCED CORRECTIONS CERTIFICATE

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*Clarification of applied COTA Credits*

*Superstition Mountain Campus*

#### Prerequisites:

RDG094, Successful completion of Arizona COTA Certificate  
(21 credits)

#### Core Courses (36)

COTA Certification (21)

## CORRECTIONS A.A.S.

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*Clarification of applied COTA Credits; also ENG121 option.*

*Superstition Mountain Campus*

#### Written Communications (3)

ENG101 English Composition III (3) or  
ENG121 Applied Technical Writing (3)

#### Core Requirements (42)

COTA Certification (21)

## JOHN DEERE CONSTRUCTION AND FORESTRY EQUIPMENT TECHNOLOGY A.A.S.

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*Course DIE197 has been replaced by Course DIE196.*

DIE196 Diesel Equipment Tech & HEO Internship I (3)

## RADIOLOGIC TECHNOLOGY A.A.S.

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*Total Credits = 79 with 24 General Education and 55 Major  
Core credits*

The program starts once per year in the Spring Semester.  
Students must complete 24 credits of general education  
requirements and 55 credits of major core courses.

**ASU TAGS:** 45 for 2012 are posted at:  
<https://transfer.asu.edu/central-az/tag>