

### Imagine the Possibilities...

Do you often imagine how a college degree could improve your life? Just think of the possibilities after you receive your diploma. You could apply for a better job ... receive a promotion ... even make more money. You could also continue your education and earn a Bachelor's degree!

Each day, thousands of working adults like you choose to act on their dreams and enroll in college. At Rio Salado, students typically balance work, family and college courses. However, they succeed because Rio Salado specializes in meeting the educational needs of people with extremely busy lifestyles.



This 2001-2002 Catalog is designed to be totally user-friendly. It is a valuable guide for researching certificate and degree programs, including course descriptions and prerequisites. Details about Rio Salado's services, such as registration, financial assistance, and student services, can be located here. In addition, you'll find strategies for success, as well as important information about college and district policies.

You can also access much of this information using the award-winning Rio Salado College web site at:  
✓ [www.rio.maricopa.edu](http://www.rio.maricopa.edu)

At Rio Salado you will find convenient and flexible programs and courses, faculty with the expertise you want, and up-to-date resources to equip you for success. As a Rio Salado student, you also become part of the highly-respected Maricopa Community Colleges family, the largest community college district in the nation.

We look forward to serving you!

Sincerely,

A handwritten signature in dark ink, appearing to read "Linda M. Thor". The signature is fluid and cursive, written over a light-colored background.

Dr. Linda M. Thor, President  
Rio Salado College

Rio Salado College is accredited by the Higher Learning Commission and a member of the North Central Association:  
30 North LaSalle Street, Suite 2400,  
Chicago, Illinois 60602  
312-263-0456, Fax: 312-263-7462,  
✓ <http://www.ncahigherlearningcommission.org>

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# Rio Salado College

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Arizona.

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# Certificate and Degree Programs

## Associate in Arts (AA) Degrees

AA GR: Associate in Arts Degree, General Requirements  
AA SR: Associate in Arts Degree, Special Requirements  
AGEC A: Arizona General Education Curriculum

## Associate in Business (ABus) Degrees

ABus GR: Associate in Business, General Requirements  
ABus SR: Associate in Business, Special Requirements  
AGEC B: Arizona General Education Curriculum

## Associate in Science (AS) Degrees

AS GR: Associate in Science, General Requirements  
AS SR: Associate in Science, Special Requirements  
AGEC S: Arizona General Education Curriculum

ATP: Associate in Transfer Partnership Degree

## Associate in General Studies (AGS) Degree

## Associate in Applied Science (AAS) Degrees

Chemical Dependency  
Computer Technology  
Dental Hygiene  
Organizational Leadership  
Programming and System Analysis  
Public Administration  
Quality Customer Service  
Water/Wastewater Technology

## Certificates of Completion

Business Office Technology  
Chemical Dependency Level I  
Chemical Dependency Level II  
Computer Technology  
Dental Assisting (AzDA Clinical)  
Desktop Publishing  
e-Commerce/Website Management  
Networking  
Organizational Leadership  
Programming  
Programming and System Analysis  
Project Management/Website Management  
Public Administration  
Quality Customer Service  
Quality Process Leadership  
Technology Helpdesk Support  
Technology Troubleshooting and A+ Preparation  
Water Distribution and Collection  
Wastewater Treatment  
Water Treatment  
Web Master

## Educational Partnership Programs

*(limited to business, industry and governmental agencies)*

## Associate in Applied Science (AAS) Degrees

Airline Operations  
Computer Technology  
Corrections  
Detention Services  
Fire Science  
Law Enforcement Technology  
Quality Customer Service

## Certificates of Completion

Advanced Corrections  
Advanced Systems Engineer  
Airline Operations  
Basic Corrections  
Basic Systems Engineer  
Credit Card: Customer Service  
Database Administration  
Detention Services  
Fire Science  
Human Services -  
    Assistance: Customer Service  
Human Services -  
    Eligibility: Customer Service  
Human Services -  
    Specialist: Customer Service  
Law Enforcement Technology  
Law Enforcement Field Training  
Public Safety Technology  
Quality Customer Service  
Telecommunications: Customer Service  
Travel Agency: Customer Service  
Utilities: Customer Service

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## How to Use This Catalog

*This is a brief introduction to how the Rio Salado College Catalog is designed and how to use it. Please keep in mind that the information contained in this catalog is subject to change, and it is the student's responsibility to be knowledgeable of the contents. Contact Rio Salado's Student Services Office at 480-517-8540 with any questions.*



Let Rio Salado College help  
you on your way to  
becoming a college graduate.

With Rio Salado College, you can  
achieve your academic goals.

### Rio Salado College is dedicated to serving you.

This catalog contains everything you need to know about Rio Salado College and our degree options, course descriptions, and numerous college resources available to you.

There are several ways to access information in this catalog:

- For example, the Table of Contents found on pages 4-5 provides a quick and simple way to find information.
- There is also a detailed, alphabetical Index on page 206.
- For a listing of all our certificate and degree programs, turn to page 3.
- We also have sections dedicated to the various areas of Rio Salado including Student Services (page 15), Registration Information (page 25), and Financial Information (page 35). The information found within each of these sections is arranged in alphabetical order.

Use this catalog to find out about certificate and degree requirements. This information is located on pages 51-113. Course numbers and descriptions (on pages 147-205) are necessary to ensure proper course selection to satisfy degree requirements. If you would like a degree check sheet, please contact the Academic Advisement Office at 480-517-8540 or check out the website at ✓ [www.rio.maricopa.edu](http://www.rio.maricopa.edu).

The catalog is a helpful tool, detailing the many services available and the necessary information needed to make your college experience a rewarding one. You will find information on Academic Advisement (page 16), Counseling (page 19), How to Register (page 26), Tuition (page 39), Bookstore (page 18), and Tutoring (page 24). Other areas include Rio Salado's Library (page 24), Policies and Procedures (page 127-146), and Study Skills (page 8).

*The Rio Salado College Catalog is published once a year. Please be aware that some courses and programs may be modified throughout the year. Students should always consult with an academic advisor to ensure that the most current information is available when making academic decisions.*



# Student Success Strategies

## IN THIS SECTION

### Study Skills

- How to be an Active Learner
- How to Create a Study Group
- How to Prepare for Exams
- How to Manage Your Time

### Balancing Work, Family and School

### Vocabulary for College Survival

- Terms You Should Know

### Who to Contact

- Have a question? Here's who to call.

### Web Pages

- Check out Rio Salado's award-winning sites.

### Rio at Your Fingertips

## Study Skills

### How to be an Active Learner

#### 1. Read

Always read all information enclosed in your course materials packets and syllabi. These materials provide valuable information such as: how to contact your instructor, tutoring services, testing hours and locations, assignments, and important college phone numbers.

#### 2. Organize

Organize all course materials and contact information. Create a calendar for assignment due dates and last dates to take midterm and final exams.

#### 3. Attend Orientations and Labs

Be sure you attend all required orientations and lab sessions for your course. In-person requirements will be listed in the course schedule and your course syllabus. (Not all courses have in-person requirements.)

#### 4. Go Through Successful Starts

Students who are taking an Internet format for the first time are advised to attend an in-person orientation or go through the online "Successful Start Directions." These directions can be accessed through our web pages at:

✓ [http://www.rio.maricopa.edu/distance\\_learning/](http://www.rio.maricopa.edu/distance_learning/)

#### 5. Stay on Track

Do not fall behind on assignments.

#### 6. Save Assignments

Save copies of all assignments submitted to your instructor.

#### 7. Don't Forget

Contact your instructor with any questions or concerns about your class.

### How to Create a Study Group

Students enrolled in *Internet* formats are able to develop study groups through "First Class Chat", or "Anlon." Students enrolled in *Mixed Media* and *Print Based* formats should contact their instructor to see if other students are interested in creating a study group. The steps below will help you to form a study group.

1. Find someone or several people who might want to study together.
2. Schedule an hour or longer for all of you to meet.
3. Find a place to meet where you can be comfortable and talk easily.
4. Introduce yourselves at your first meeting.
5. Talk about your impressions of your college experience.
6. Talk about your decision to come to school and the challenges you have faced by making that decision.
7. Talk about your goals and future plans.
8. Take turns talking so everyone shares equally.
9. Make sure that the group feels comfortable.
10. Exchange phone numbers.
11. Agree when and where you will meet again.

Congratulations! You have conducted your first study group! In future meetings, you can focus on course content.





## Study Skills

## How to Prepare for Exams

Use three simple steps and you will be ready for your exams. Remember, you cannot cram at the last minute and expect a passing grade. Many instructors build on concepts throughout the semester and your study should do this, too.

### 1. Organize

- summarize, condense, and make sense of all your notes, homework and previous tests
- develop your own organization system on an outline, map or whatever works for you
- use your syllabus as a guide
- put deadlines and study time on your calendar
- *important:* do not be overwhelmed by the material

### 2. Review

- review your lessons each week to put the material into long-term memory
- use flash cards, highlighters, or whatever works best for you
- *important:* review the material over several days or weeks, not all at once

### 3. Practice

- make up practice questions and test yourself, or work with a study group
- focus your study questions on what you do not know
- *important:* try to teach the material to someone else and you will learn it much better yourself

## How to Manage Your Time

1. Get a calendar and mark important dates
  - refer to syllabus for class deadlines
  - schedule study time
  - schedule family events
  - schedule leisure time for yourself
2. Create “to do” lists for each day
3. Tackle the tough jobs first
4. Set specific goals for each course
5. Reward yourself after completing each task
6. Monitor your “self talk” and do not beat yourself up if you do not complete everything on your list.

### Balancing Work, Family and School



1. Take care of yourself:
  - eat a balanced diet
  - sleep 7-8 hours
  - exercise regularly
2. Get to know your classmates and you will discover that you are not alone in your situation.
3. Enlist your family’s support.
4. Use FREE college resources:
  - personal and career counseling
  - academic advisors
  - tutoring
  - disabled student services
5. Connect with resources for financial support:
  - financial aid
  - scholarships
  - your employer

For more information on any of these academic success skills, contact the Learning Assistance Center at 480-517-8540.

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## Vocabulary for College Survival: Terms You Should Know

**Adjunct Faculty:** Part-time certified instructors.

**Academic Advisor:** A resource person able to help you plan your course of study and select appropriate courses. Also called program advisor.

**AGEC:** A 35-credit block of general education courses which will transfer to an Arizona university. May also add courses for “pathways” for specific majors toward an associate-level degree.

**Assessment:** Placement testing to guide students into appropriate Reading, Math, and English courses.

**Associate Degree:** A degree awarded for the completion of a minimum of 60 credits selected to meet specific requirements. Degrees designed for transfer to a university include Associate in Arts (AA), Associate in Science (AS), and Associate in Business (ABus). The Associate in General Studies (AGS) allows more flexibility in course selection, and the Associate in Applied Science (AAS) emphasizes a particular occupational field.

**Attachment:** A file that is included with an email message. Oftentimes, the file must be saved to the desktop before it can be opened.

**Audit:** To take a class for no credit. There are additional charges for auditing.

**Bachelor’s Degree:** A degree awarded by a four-year college. The B.A. or B.S. requires approximately 120 credits.

**Catalog:** The annual publication which explains college policies, procedures, and programs, including course descriptions.

**Certificate of Completion (CCL):** A certificate awarded for the completion of a specified career program.

**Chat:** Sometimes called IRC (Internet Relay Chat). Having a conversation over the Internet by typing messages. As you type your message, it can be seen on both your screen and the person’s screen that you are chatting with at the same time. Some Internet courses require students to participate in a chat room session.

**College Work/Study:** A form of financial aid based on need, which provides the student with paid employment while in school.

**Corequisite:** Requirement(s) which must be met concurrently with a course.

**Counselor:** A faculty member available to help you with personal, career, or school-related questions.

**Course Description:** The brief, official statement of the content and prerequisites and/or corequisites of each course included in the catalog.

**Course Number:** The three-digit number following the subject code which identifies a particular course, such as ENG101, First-Year Composition.

**Credit Hour:** Numerical unit assigned to a course based on the amount of time spent in class.

**Curriculum:** A series of courses which meet a particular academic or vocational goal. Also called a program of study.

**Cursor:** A small symbol, usually a blinking line, arrow, or hand, which represents where you are currently positioned on the computer screen. You can change the position of the cursor by moving your mouse and clicking in a different spot. When the cursor is in the shape of a small arrow, it’s called a “pointer.” The two terms are often interchanged.

**Distance Learning:** Courses you can take any time, any place. For detailed information refer to pages 43-45.

**Drop/Add Period:** The period during which you can make changes in your schedule without penalty. The drop/add period varies with the length of the class. See the Refund Policy on page 38.

**Electives:** Courses a student can select in order to complete a program of study, sometimes with restrictions.

**Email:** Electronic mail; a means of sending written messages electronically.

**ESF (Electronic Student Files):** A web-based database set up by you and your advisor.

**Grant:** Student financial aid based on need. Grants do not have to be repaid.

**Helpdesk:** A college service that assists students when they are having technical/computer related problems while enrolled in an Internet course.

**Internet:** Classes on the World Wide Web. For more information, visit our site at ✓ <http://www.rio.maricopa.edu>.

**Lower Division:** First and second year college courses. Only lower division courses are offered by the community colleges.

**MCCCD:** Maricopa County Community College District.

**Mixed Media:** Format which combines delivery technologies, for example, print, audio or video tapes, conference calling or laboratory kits.

**Netiquette:** Rules of conduct that define polite behavior in an email and on the Internet.

**Online:** When you are connected to the Internet or an online service, you are online. Online can also be used to describe services that are available to you through the Internet.

**Open Entry/Open Exit:** Self-paced computer courses which start every week and can be taken from your home, office or at any of our conveniently located computer labs. Appropriate software is required if working from your home or office.

**P.A.S.S. (Pathways for Adult Student Success):** A Rio Salado accelerated degree program particularly designed for students who will be transferring to a state university.

**Password:** A secret word you use to gain access to a computer system. Sometimes there are restrictions on the types of characters you can use (i.e., letters, numbers, or incidentals), as well as a maximum number of them.

**Prerequisite:** A requirement which must be met before enrolling in a specific class, usually the completion of a lower-level class in the same subject.

**Print Based:** Format which uses printed material such as textbooks, study guides, and supplemental readings.

**Proctor:** An individual (approved by the Rio Salado Testing Center) who will supervise the student's distance learning midterms and finals when the student lives outside of Maricopa County.

**Required Course:** A course needed to complete a certificate or degree program.

**Residential Faculty:** Full-time certified instructors.



**Restricted Electives:** A listing of selected courses students can choose from to complete a certificate or degree program.

**Schedule:** The publication which includes class offerings for a specific term and year.

**Scholarships:** Student financial aid based on academic achievement, need, or a combination of factors. Scholarships do not have to be repaid.

**Section Number:** The four digit code following the subject code and course number in the schedule of classes which identifies the location and time of the class (ENG101 3406).

**Site Supervisor:** An employee of the college who oversees Rio operations at locations in the community.

**Subject Code:** The three-letter abbreviation which identifies the subject area of a course, such as ENG for English courses.

**Syllabus:** A course outline and information on classroom policies, tests, dates, and materials to be used in a class, usually given to students by the instructor at the first class meeting.

**Transcript:** An official record of a student's course work and grades.

**Transfer Credit:** Credit earned at another college applied to a Rio program.

**Upper Division:** Courses usually taken during junior and senior years, offered at four-year institutions.

**Username:** A unique name used to access resources on a computer. If you are registered for an Internet course, your username, along with your password, allows you to get access to course information and the messaging system. In an email address, the characters before the '@' symbol are the username.



## Who to Contact...

| Concerns   | Phone #      | Who to Contact                                       |
|--|--------------|--|
| Academic Advising                                  | 480-517-8540 | Student Services                                     |
| Academic Appeal                                    | 480-517-8381 | Faculty Department Chair                             |
| Accident at Site                                   | 480-517-8200 | Campus Security                                      |
| Books  | 480-517-8355 | Book Store   |
| Career Services                                    | 480-517-8540 | Student Services                                     |
| Catalog  | 480-517-8540 | Student Services                                     |
| Class Schedule                                     | 480-517-8540 | Student Services                                     |
| Complaints & Grievances (staff)                    | 480-517-8540 | Associate Dean of Student Services                   |
| Complaints & Grievances (Grades/class/instructors) | 480-517-8381 | Fast Team or Department Chair or Dean of Instruction |
| Computer Assistance                                | 480-517-8600 | Helpdesk   |
| Computer Labs                                      | 480-517-8450 | Open Entry/<br>Open Exit Helpdesk                    |
| Course Packets                                     | 480-517-8243 | Course Development                                   |
| Course Substitutions                               | 480-517-8540 | Academic Advising                                    |
| Credit by Exam                                     | 480-517-8560 | Testing and Assessment Center                        |
| Counseling   | 480-517-8540 | Student Services                                     |
| Degree Planning                                    | 480-517-8540 | Academic Advising                                    |
| Disability Services                                | 480-517-8545 | Disability Services and Resources                    |
| Drop/Add Classes                                   | 480-517-8150 | Admissions and Records                               |
| Dual Credit  | 480-517-8150 | Admissions and Records                               |
| Dual Enrollment                                    | 480-517-8105 | Academic Programs                                    |
| Financial Aid                                      | 480-517-8310 | Financial Aid Office                                 |
| Grade Change (Academic Appeal)                     | 480-517-8150 | Admissions and Records                               |
| Graduation   | 480-517-8156 | Graduation Office                                    |
| Incomplete Grade                                   | 480-517-8290 | Specific Instructor                                  |
| Insurance:<br>Student Health                       | 480-517-8138 | Human Resources Office                               |
| Jobs   | 480-517-8540 | Online Career Center                                 |
| Library  | 480-517-8424 | Library  |
| Lost and Found                                     | 480-517-8200 | Security   |
| Name Change  | 480-517-8150 | Admissions and Records                               |
| Parking Tickets                                    | 480-517-8200 | Security   |

|                           |              |                               |
|---------------------------|--------------|-------------------------------|
| Prior Learning Assessment | 480-517-8560 | Testing and Assessment Center |
| Personal Problems         | 480-517-8540 | Counseling Center             |
| Scholarships              | 480-517-8310 | Financial Aid                 |
| Sexual Harassment         | 480-517-8540 | Student Services              |
| Test Anxiety              | 480-517-8540 | Counseling Services           |
| Testing Information       | 480-517-8560 | Testing and Assessment Center |
| Transcript Evaluation     | 480-517-8540 | Academic Advising             |
| Transcript Request        | 480-517-8150 | Admissions and Records        |
| Transferring Courses      | 480-517-8540 | Academic Advising             |
| Tuition & Fees            | 480-517-8334 | Cashier's Office              |
| Tutoring                  | 480-517-8577 | Learning Assistance Center    |
| Veterans Benefits         | 480-517-8153 | Veterans Affairs Office       |
| Withdrawing from College  | 480-517-8150 | Admissions and Records        |

## Visit our web pages



### Homepage

✓ <http://www.rio.maricopa.edu/>

### Career Services

✓ <http://www.rio.maricopa.edu/career/>

### Distance Learning

✓ [http://www.rio.maricopa.edu/distance\\_learning/](http://www.rio.maricopa.edu/distance_learning/)

### Student Services

✓ <http://www.rio.maricopa.edu/services/student/>

### Registration Online

✓ <http://www.rio.maricopa.edu/services/student/enrollment/registration/>

### Student Resources

✓ [http://www.rio.maricopa.edu/distance\\_learning/resources.shtml](http://www.rio.maricopa.edu/distance_learning/resources.shtml)

### Tutoring

✓ <http://www.rio.maricopa.edu/services/student/support/tutoring/>

## Rio at Your Fingertips . . .

is standing by to give you the information you need about Rio Salado College when you want it. Simply dial 480-517-8699, then a five-digit code from the following topic list. You may select another code at the conclusion of a message, or transfer to a Student Services Representative. You may also find out more about Rio Salado College by visiting our homepage at ✓ <http://www.rio.maricopa.edu>.



### Call 480-517-8699, then ...

#### General Information

- 45000** The Rio Salado College Story
- 45001** Valley-wide Locations
- 45002** Registration and Tuition Information
- 45003** Student Support Services

#### Adult Education

- 45004** ABE/GED/ESOL
- 45005** Accelerated Courses
- 45006** Pathways for Adult Student Success (P.A.S.S.)
- 45007** Sun Cities Lifelong Learning Center

#### Career Preparation Programs

- 45008** Professional Development for Teachers
- 45009** Nursing/Allied Health Prerequisites
- 45036** Online Post Baccalaureate Teacher Preparation Program

#### Computer Science Courses and Resources

- 45010** Computer Lab Locations and Open Entry/Open Exit Classes
- 45011** Computer Certificate & Degree Programs
- 45012** Internet/Web Development

#### Corporate and Government Programs & Services

- 45013** Quality Customer Service Program
- 45014** Organizational Leadership Program
- 45015** Customized Training and Consulting Services
- 45016** Law Enforcement Technology
- 45025** Police Science Baccalaureate

#### Degree Programs

- 45017** Associate in General Studies Degree
- 45018** Associate in Applied Science Degree
- 45019** Associate in Transfer Partnership (ATP) Degree

#### Distance Learning

- 45020** What is Distance Learning?
- 45021** Course Delivery Options
- 45022** Flexible Start and End Dates
- 45023** Internet Courses and Services

#### Job Skill Training Programs

- 45024** Chemical Dependency Program
- 45027** Water/Wastewater Technology Program
- 45035** Dental Hygiene
- 45026** Arizona Dental Association - Clinical Dental Assisting Program

#### Language Courses

- 45028** Traditional Language Classes
- 45029** Accelerated Language Classes
- 45030** Internet Spanish Classes

#### New Transfer Programs

- 45031** Arizona General Education Curriculum (AGEC)
- 45032** Associate in Arts Degree
- 45033** Associate in Business Degree
- 45034** Associate in Science Degree

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Thousands of students and working adults  
have done just that with distance learning  
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Instead of meeting in a classroom  
on a specific day and time,  
distance learning classes meet  
anytime and anyplace you wish.

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audiocassettes, videocassettes,  
CD-ROM, or print.

And classes begin every two weeks  
all year long, so you can reach  
your goals at your own pace.

To find the perfect balance  
between college, work, family,  
friends and fun, contact  
Rio Salado College today  
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[more.info@riomail.maricopa.edu](mailto:more.info@riomail.maricopa.edu)



## *endless possibilities*



# Student Services

## IN THIS SECTION

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#### Assessment and Course Placement Policy

- Screening
- Course Placement Assessment
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#### Career/Counseling Services

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- Animals and Pets

#### Honors Program

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- Phi Theta Kappa
- Honors Program

#### Library Services

#### Tutoring

## Academic Advising

Academic advising assists students in the formation of educational plans and goals. This is an ongoing process of clarification, evaluation, re-clarification, and re-evaluation.

The ultimate responsibility for making decisions about life goals and educational plans rests with the student. The academic advisor helps to identify and assess alternatives and consequences.

The academic advisor also serves as a resource for accurate information. The advisor is knowledgeable about institutional policies, procedures, programs and resources, and assists students in making use of printed materials.

Advisors are in a position to help students identify their learning-related needs. Feedback received from advisors could be beneficial and should be used in policy-making decisions at all levels of the institutional administration.

With the help of an academic advisor, students will:

- gain an understanding of their academic abilities and interests.
- be reinforced in their successes.
- be provided with information regarding the nature and purpose of higher education.
- be referred to counselors and other resources to explore their interests, skills, abilities, and values.
- define and refine educational goals and objectives and understand the consequences of alternative courses of action.
- consider alternative careers through counselors, workshops, seminars and other resources.
- make course, certificate, and/or degree selections.
- understand and utilize placement test results.
- be encouraged to be active participants in their educational planning and college life.
- be informed of support services that are available and how to make an appointment, if appropriate.
- be aware of transfer articulation arrangements.
- be informed about research results and general perceptions of student experiences at the institution.
- receive accurate printed materials on academic majors, minors, and other degree and program requirements.

Rio Salado's advisement staff is here to help you get started and to offer support throughout your college career. Advisement services are available online, over the phone, and by appointment at several convenient locations in the valley. Walk-ins are welcome at the Rio Tempe site. Let our advisors provide assistance with:

- Unofficial transcript evaluation
- Academic planning
- Transferability
- Course selection
- Prerequisites
- Development of an individual learning plan

Once you set up an individual learning plan with an academic advisor, log onto the Electronic Student File System (ESF) at:

✓ <http://www.3.rio.maricopa.edu/esf/login/>

The ESF System will provide you with online access to your individual learning plan, your current class schedule, and a direct e-mail link to your assigned academic advisor.

For more information, contact an academic advisor at 480-517-8540 or by e-mail at:

✓ [academic.advisement@email.rio.maricopa.edu](mailto:academic.advisement@email.rio.maricopa.edu)





## Assessment and Course Placement Policy

Rio Salado, like all of the Maricopa Community Colleges, uses placement testing to guide students into appropriate reading, math and English courses. Tests are offered throughout the year at several locations, both days and evenings. Scores are valid for two years and may be used at any of the Maricopa colleges. Those who have successfully completed a course in any of these three subjects may advance to the next level without further testing.

Two important concepts shape the student assessment and course placement policy. First academic achievement is directly related to the quality and amount of academic assessment and proper course placement students receive before their enrollment and during their college experience. Second, the Maricopa Community Colleges have a commitment to provide opportunities for a successful academic experience for students. Therefore, all students must be assessed before registration to determine their current skills and knowledge levels in order to direct them to appropriate classes.

Placement testing is free. Placement tests are not admission tests, and are used only to guide students in the selection of appropriate courses. An advisor will help interpret your scores and identify those courses. You may take one, two, or all three tests in a single session. Each portion of the test takes 25 minutes and all questions are multiple choice.

For a pamphlet on preparing for the placement tests with sample questions, please call Student Services at 480-517-8540 or pick up the pamphlet at any Rio Salado Service Center. Dates and times for tests are listed in the current class schedules with phone numbers for reservations.

### Screening

The assessment and course placement process will begin with student screening to determine if a student should take an English, reading and math placement test (ASSET/COMPASS) or an alternate form of assessment.

In this initial screening process, all students registering for the first time will be asked to complete the college student information form. This information will be stored in the student information system.

### Course Placement Assessment

Students will be required to complete placement assessments under the following conditions:

- The student is taking his or her first college credit English, reading and/or math course, or any college course for which English, reading or math is a prerequisite.
- The student is pursuing a degree and does not have current valid district approved placement assessments on file or does not have previous college credit in English, reading and math.
- The student does not have a high school diploma or GED, and is applying for federal financial aid.
- The student for whom English is not the primary language is required to take a test of English proficiency.

Exemptions: Students MAY be exempt from the placement assessments if at least one of the following conditions applies:

- The student has earned an associate's or higher degree.
- The student has earned transferable college credits in English, reading, and math with a grade of "C" or higher.
- The student demonstrates that he or she has currently valid district approved placement assessments on file.

*Note: Being exempt from taking the ASSET/COMPASS for course placement does not exempt the student from fulfilling the graduation requirements.*

### Other Forms of Assessment

If seeking an exemption from taking the ASSET or COMPASS, other assessments will be used to determine appropriate course placement, such as:

- Evaluation of high school transcripts.
- Evaluation of college transcripts.
- Evaluation of course placement assessments on file at another MCCCDC college.

### Course Placement

Students are strongly urged to enroll in the courses indicated by their placement tests. This placement should be discussed with an advisor or counselor who is skilled in assessing the student's needs and factors that affect student success. A student receiving an assessment score

CONTINUED

within a designated “decision zone” must receive advisement to aid the student in selecting a course(s).

ASSET/COMPASS scores should be used only for course placement recommendations and not as an admissions criterion for any college program.

### Waiver of Course Placement

The final decision for course placement rests with the student. Therefore, if the student chooses to enroll in or remain in a course different than one recommended during assessment, the student will be asked to sign a waiver stating that he or she has received advisement and that the course selection is his or her decision. It will be noted on the student’s records that he or she has signed a waiver and the waiver will be kept on file in the Office of Admissions or Records.

### Implementation of Policy

To ensure consistency of assessment and student placement within the Maricopa Community Colleges:

- All colleges shall use the same assessment instruments.
- All colleges shall adhere to the same cut-off scores.
- The student shall be permitted no more than one re-test (after a 24-hour waiting period) per disci-

pline each year (one year from date of student’s original or re-test assessment at any ASSET assessment site).

- Assessment scores, with the exception of the reading exemption, will be valid for two years from the date of the original or re-test assessment.

*Note: The Dean of Student Services or designee may approve re-testing for students with special needs or circumstances. The re-test date will then serve as the date of record.*

### Evaluation

The Maricopa Community Colleges will provide an ongoing evaluation of the assessment and placement process. An annual report shall be submitted to the Governing Board to indicate the policy’s effectiveness noting the number of students assessed, their placement scores and their success in courses. Every three years a thorough review of the policy and procedures shall be implemented, including recommendations from the English, Reading and Math Instructional Councils regarding cut-off scores.

## Bookstore

Rio Salado’s Bookstore is located at South Mountain Community College at 7050 South 24th Street, Phoenix, in the Student Services Building.

Books may be purchased by phone and shipped by UPS within 3-5 days for an additional shipping fee or delivered free to any MCCCDC Campus Bookstore. Students ordering books by phone should have the course number and section number available. Visit the website to order books online at:

✓ <http://www.riosalado.bkstr.com>

Students planning to visit the South Mountain campus to buy books should call ahead for current hours of operation, availability of texts and refunds/buy-back policies. Please call 480-517-8355.

## Credit for Prior Learning

Rio Salado College and the Maricopa Community Colleges recognize that learning takes place in a variety of situations and circumstances. Many students have significant, demonstrable learning from experiences outside the traditional academic environment. Therefore, prior learning, not life experience, can be the basis for the award of college credit.

Students may be awarded no more than 30 credit hours, unless required by a specific program of study, within the Maricopa Community Colleges using one or more of the following assessment methods recommended by the Council for Adult and Experiential Learning (CAEL) and the American Council on Education (ACE):

- Articulated Programs
- Credit By Evaluation
- College-Level Equivalency Examinations

Students must be currently enrolled in a credit course at the college at which they apply for assessment of their prior learning.

Credit awarded for prior learning does not count as hours in residence for graduation requirements.

Exceptions may be granted at some MCCCDC colleges for their unique programs of study. No more than 20 semester credit hours may be applied to AGECE. Credit received through Prior Learning Assessment is transferable within the Maricopa Community Colleges but is not necessarily transferable to other colleges and universities. Therefore, students are strongly advised to meet with a program advisor or contact the college or university they plan to attend.

For further information on Prior Learning Assessment, contact the Testing and Assessment Center at 480-517-8560.

## Credit by Evaluation

The Maricopa Community Colleges offer credit by evaluation. The American Council on Education (ACE) evaluates military training and experiences as well as non-collegiate sponsored training programs and recommends credit awards based on this evaluation.

The number of credits listed in the ACE guide are recommendations only. A college is not required to grant a student the number of credits recommended. The credits are included on a student's transcript.

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## Career/Counseling Services

Counselors are available to assist students with personal, educational, and vocational concerns. Counselors can help students with:

- **Career Guidance:** Assessment of interests and needs, computerized career exploration.
- **Career Information:** Market outlook, educational requirements, workshops, job postings and job bulletins.
- **Job Hunting Skills:** Applications, resumes, interviews, networking.
- **Personal Concerns:** Stress management, motivation, goal setting, test anxiety, time management, or any other concern interfering with your academic work.

## Get the Job You Really Want!

Rio Salado's Career Services are designed with you, the adult learner, in mind. Whether you are exploring your career options for the first time, thinking of a career change, or need to learn job search skills, our self-directed services can help you reach your personal and professional goals.

For an appointment or counseling, call the location nearest you or send us an e-mail.

- **Jacque Beale, M.C.**  
jacque.beale@riomail.maricopa.edu
- **Beatriz Cohen, M.C.**  
beatriz.cohen@riomail.maricopa.edu
- **Dr. Jean Tease**  
jean.tease@riomail.maricopa.edu

**Student Services**  
2323 West 14th Street  
Tempe, AZ 85281  
**480-517-8540**

**Paradise Valley Mall**  
4550 East Cactus Road  
Phoenix, AZ 85003  
**602-996-9917**

### Educational Experiences in the Armed Services

The Maricopa Community Colleges may award credit for military experiences based on the *ACE Guide to the Evaluation of Educational Experiences in the Armed Services*. A student may receive college credit if:

- 1) training parallels a discipline area offered through the Maricopa Community Colleges, and
- 2) credit meets a program requirement or is used as elective credit.

Upon request, individuals who have successfully completed Basic Training, four (4) credit hours in Physical Education will be awarded as indicated in the ACE Guide and the Community College of the Air Force Catalog. Official documentation of military training is required.

### ACE's College Credit Recommendation Service (CREDIT) (formerly known as PONSI)

ACE evaluates training programs offered by business, industry, and government and publishes its credit recommendations in *The National Guide to Educational Credit for Training Programs*. If a student has received training which appears in the guide, he or she may receive college credit if:

- 1) training parallels a discipline area offered through the Maricopa Community Colleges, and
- 2) credit meets a program requirement or is used as elective credit.

### Departmental Credit By Evaluation

Students may apply for Departmental Credit By Evaluation in certain courses by obtaining the appropriate form in the Office of Admissions and Records, and completing applicable paperwork and other requirements of the college, including payment of required fee. See fee schedule on pages 39-42 for appropriate fee. Fees are not refundable if a student fails to obtain credit.

Students may not request:

- 1) the evaluation of a course a second time;
- 2) the evaluation of a course while currently enrolled in the course;
- 3) to establish credit in a previously completed course; and
- 4) to establish credit for a lower level of a course in which credit has been received.

Certain departments have additional requirements which must be met before credit may be granted through departmental credit by evaluation.

When credit is granted as outlined above, a notation of "credit by evaluation," and the number of credits will appear on the student's transcript. These

credits are not used in computing the grade point average. Credit by evaluation is transferable within the Maricopa Community Colleges, but is not necessarily transferable to other colleges and universities.

### College-Level Equivalency Examinations

ACE has published credit recommendations for a number of national standardized examinations such as the ones listed below in the Guide to Educational Credit By Examination.

The Maricopa Community Colleges use these recommendations to award credit for equivalent Maricopa Community Colleges coursework as well as elective credit. Scores must be sent directly to the Office of Admissions and Records from the specific testing company(s) before credit is awarded.

**All equivalency is subject to future review and possible catalog change.**

### Advanced Placement Examinations

Students who have taken an advanced placement course of the College Entrance Examination Board (CEEB) in their secondary school and who have taken an Advanced Placement Examination of the CEEB may receive course credit with a score of 3, 4 or 5. Scores must be received directly from CEEB before credit is awarded.

### English AP Recommendation:

| <u>Exam</u>                        | <u>Score</u> | <u>Credit Hours/Equivalency</u>                                      |
|------------------------------------|--------------|--|
| English-Language and Composition   | 4 or 5       | 6 credit hrs/ENG 101, ENG 100 AA, AC, AD eligible for Honors ENG 102 |
| English-Literature and Composition | 4 or 5       | 6 credit hrs/ENG 101, ENH 110 eligible for Honors ENG 102            |

### Math AP Recommendation:

| <u>Exam</u>               | <u>Score</u> | <u>Credit for Course</u>   |
|---------------------------|--------------|--|
| Math-Calculus AB          | 3, 4 or 5    | MAT 220 or MAT 221   |
| Math-Calculus BC          | 3            | MAT 220 or MAT 221   |
| Math-Calculus BC          | 4 or 5       | MAT 220 & MAT 221, or MAT 221, MAT 230, and MAT 231 upon completion of MAT 241 |
| Computer Science A and AB | 4 or 5       | CSC 100  |

### College Level Examination Program

The Maricopa Community Colleges may award credit to individuals who have received a score of 500 or more for the 1986 version of the College Level Examination Program (CLEP) General Examinations (610 on the 1978 version) and who meet or exceed the American Council on Education (ACE) recommended scores for awarding credit on the CLEP subject examinations. The ACE credit-granting score recommendation will be 50 (on the 20-80 scale) for all CLEP computer-based exams beginning July 1, 2001.

## Credit for Prior Learning

**English Composition:**

Students pursuing credit for ENG 101 must take the English Composition with Essay. The Maricopa Community Colleges do not award credit for ENG 102 through CLEP examination.

**Foreign Languages:**

Students meeting the credit-granting score standard recommendation will earn course credit as indicated below. Credit earned through CLEP examinations for French, German, and Spanish meet the language proficiency requirement for the Arizona General Education Curriculum (AGEC). It is recommended that an oral exam at the 202 level be additionally administered.

The credit-granting score recommendation for the Maricopa Community Colleges will be 50 (on the 20-80 scale) for all CLEP computer-based exams beginning July 1, 2001.

For CLEP examinations taken prior to July 1, 2001, the Maricopa Community Colleges will grant credit based on the scaled scores indicated below:

| <b>Course</b> | <b>Spanish</b> | <b>French</b> | <b>German</b> | <b>Credit</b>           |
|---------------|----------------|---------------|---------------|-------------------------|
| 101           | 40-49          | 39-48         | 39-45         | 4 (101)                 |
| 102           | 50-54          | 49-53         | 46-50         | 8 (101,102)             |
| 201           | 55-61          | 54-62         | 51-59         | 12 (101, 102, 201)      |
| 202           | 62-80          | 63-80         | 60-80         | 16 (101, 102, 201, 202) |

Credit received through CLEP is transferable within the Maricopa Community Colleges, but is not necessarily transferable to other colleges and universities.

The Assessment Center at Rio Salado College is a national CLEP test site. For additional information on registering for CLEP examinations, call 480-517-8560.

**Defense Activity for Non-traditional Education Support Examination Program**

The Maricopa Community Colleges may award credit for the Defense Activity for Non-traditional Education Support (DANTES) Examination Program to individuals who meet or exceed the ACE recommended scores for awarding credit on the DANTES subject examinations. The Maricopa Community Colleges do not award credit for ENG 102 through DANTES examination. Credit received through DANTES is transferable within the Maricopa Community Colleges, but is not necessarily transferable to other colleges and universities.

The Assessment Center at Rio Salado College is a national test site. For additional information on registering for DANTES examinations, call 480-517-8560.

**American College Testing Proficiency Examination Program**

The Maricopa Community Colleges may award credit for the American College Testing Proficiency Examination Program (ACT-PEP) based on the scores earned.

**Departmental Credit By Examination**

Students may apply for Departmental Credit By Examination in certain courses by obtaining the appropriate form in the Office of Admissions and Records, paying the required fee, and completing the examination and other requirements of the college. See fee schedule on pages 39-42 for appropriate fees.

Students may not request:

- 1) to challenge a course a second time;
- 2) to challenge a course while currently enrolled in the course;
- 3) to establish credit in a previously completed course; and
- 4) to establish credit for a lower level of a course in which credit has been received.

Certain departments may have additional requirements which must be met before credit may be granted through departmental credit by examination.

Only grades of A, B, C, D, or P earned as a result of this examination will be recorded on the student's transcript. Fees are not refundable after the examination has been administered, regardless of results.

When credit is granted as outlined above, a notation of "credit by examination," a grade and the number of credits will appear on the student's transcript. The grade is used in computing the grade point average.

**The HCIES Credit for Prior Learning****National/Regional Credential Recognition**

Students who have recognized credentials related to healthcare may request an evaluation for course competency equivalence on a case-by-case basis through the Integrated Competency Assessment Network (ICAN). For more information contact the ICAN office at 480-731-8924. When national or regional credentials are determined to be equivalent to the competencies demonstrated in corresponding courses, the recognition of external credentials will fulfill graduation credit requirements for the identified courses through Credit by Evaluation.

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### Credit by Examination and Credit by Skills Demonstration Assessment

Health Care students may apply for credit for prior learning in certain courses. Credit by Examination in the HCIES is determined through the use of HCIES Competency Assessment Tests (CATs) and/or Skills Demonstration Assessment under the direction of the HCIES Integrated Competency Assessment Network (I CAN). Students may apply for HCIES Health Care Pathway/Program Advanced Placement in certain courses by obtaining the appropriate form(s) in the Office of Admissions and Records, paying the required fee(s), and successfully completing the examination and/or skills demonstration and other requirements of the college. See fee schedule on pages 39-42 for appropriate fee. Fees are not refundable if a student fails to obtain credit.

Students may not request:

- 1) to challenge a course a second time;
- 2) to challenge a course while currently enrolled in the course;
- 3) to establish credit in a previously completed course; or
- 4) to establish credit for a lower level of a course in which credit has been received.

Certain health care pathways/programs have additional requirements which must be met before credit may be granted through HCIES credit by examination and credit by skills demonstration assessment.

Grades of A, B, C, D or P, earned as a result of examination or skills assessment will be recorded on the student's transcript. Fees are not refundable after the examination/skills demonstration has been administered, regardless of results. A grade of P/Z is not used in computing the grade point average.

When credit is granted as outlined above, a notation of "CREDIT BY EXAMINATION," "CREDIT BY EVALUATION," or "CREDIT BY SKILLS DEMONSTRATION" a grade and the number of credits will appear on the student's transcript. The grade is used in computing the grade point average with the exception of courses graded P/Z.

### Transfer Credit

Students who have had official transcripts sent directly to the Office of Admissions and Records from regionally accredited institutions of higher education may be granted credit for college-level courses in which a D (1.0 on a 4.0 scale) or higher grade has been received; but credits accepted in transfer do not necessarily apply to all certificate or degree programs. Regionally accredited institutions of higher education are those that are fully accredited by New England Association of Schools and Colleges, Middle States Association of Colleges and Schools, North Central Association of Colleges and Schools, Northwest Association of Schools and Colleges, Southern Association of Colleges and Schools, and/or the Western Association of Schools and Colleges.

Credits from institutions with candidate status from one of the above regional accrediting associations will be reviewed for transferability by a college committee.

Credits from foreign institutions will be reviewed for acceptance. It is the student's responsibility to have all such transcripts translated into English and evaluated by an International Student Evaluation Service before submitting them to the college.

### Servicemen's Opportunity College

The Maricopa Community Colleges recognize the unique educational problems confronting many active duty military personnel in attaining their educational goals. The colleges have, therefore, established themselves as Servicemen's Opportunity Colleges. This means that the colleges recognize the peculiar needs of military personnel in that they provide courses on the various military bases located in Maricopa County and provide opportunities to complete courses through non-traditional means when education is interrupted by military obligations. Maricopa Community Colleges maintain liberal entrance requirements, offer maximum credit for educational experiences obtained in the Military Services, and follow residency statutes applicable to the special needs of servicemen. Maricopa Community Colleges follow the recommendations established by the American Council on Education. If, for any reason, Maricopa Community Colleges' status as a Servicemen's Opportunity College District is discontinued, it will nonetheless maintain its commitment to students previously enrolled. In addition, the option to enter into a "contract for a degree" allows the community college, as the college of record, to grant a degree upon completion of twelve (12) credit hours at the college and the satisfaction of graduation requirements.

## Disability Services and Resources

Rio Salado provides information, resources, and services which promote a successful learning experience and independence for students with disabilities.

Services include interpreters, notetakers, specialized adaptive equipment, special testing arrangements, community referrals, and tutoring.

The center welcomes your calls for more information. Call 480-517-8545 or our TDD number at 480-517-8565.

### Animals and Pets

With the exception of dogs used by visually and hearing impaired students, animals are not permitted on any of the Rio Salado College facilities. Disabled students with dogs needing special accommodations should contact Disability Services and Resources at 480-517-8545.



## Honors Program

In an effort to recognize and encourage excellence in many of our talented students, the college provides an Honors Program. The program includes the President's Honor Roll, Phi Theta Kappa, and special honors classes and activities.

### President's Honor Roll

The honor roll is determined each fall and spring semester and includes students who have achieved a grade point average (GPA) of 3.5 or higher in twelve or more credits during the preceding academic term. Honor roll students receive a letter of congratulations from the college president.

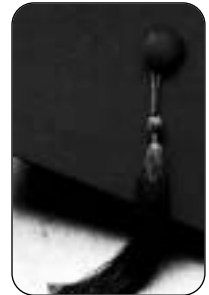
### Phi Theta Kappa

Students who have completed 12 or more credits of 100- or 200-level college work at Rio Salado with a cumulative GPA of 3.5 or higher are eligible for membership in the Alpha Theta Omicron chapter of Phi Theta Kappa, the international honor society for two-year colleges. Members enjoy recognition and fellowship that extends beyond the college regional and national networks.

### Honors Program

Students who have completed 12 or more credits of 100- or 200-level college work at Rio Salado or another MCCCDC college with a cumulative GPA of 3.25 or higher, are eligible for membership in the Honors Program. Due to district honors program procedures, honors tuition waivers are only available during fall and spring semesters, not summer. Honors students enroll in a one-credit course, which challenges the high achiever. Scholarships and partial fee waivers are available to honors students.

For more information on the Honor Roll, or Honors Program, write the Honors Program Coordinator, Rio Salado College, 2323 W. 14th Street, Tempe, AZ 85821-6950, or call 480-517-8271. For more information on Phi Theta Kappa, write the Phi Theta Kappa Advisor at the same address or call 480-517-8111.



## Library Services

Rio Salado College provides access to library and information services in both traditional and non-traditional formats.

The Rio Salado Electronic Virtual Library is located at:

✓ <http://www.rio.maricopa.edu/services/student/support/library/>

This was developed as an Internet-based library with many leading edge features. Included are several online tutorials, a virtual reference center, an electronic “Cybrary” with discipline-specific links to support class research, and an extensive collection of full-text searchable databases, including magazines, journals, newspapers, ERIC and Britannica Online. There is also an online link to our reference librarian. You may access the electronic library from home, from computers available in the Rio library at Rio Tempe, or from the labs at any of the major Rio sites (Rio Tempe, Rio Paradise Valley Mall, Rio West Valley, Rio Sun Cities, and Rio East Valley).

As a student of Rio Salado College, you are also encouraged to use the services of the Rio Salado Library and Information Center, located on the 3rd floor of the Rio building at 2323 West 14th Street, Tempe. Personalized reference service is available by telephone, e-mail, fax, or in person. The Rio library staff can obtain books for you from the other Maricopa College Campus libraries through interdepartmental loan. In addition, as a Rio student you are eligible to use the services of any of the campus libraries within the Maricopa Community College District for conducting research or borrowing books. To obtain a library card, call the Rio library at 480-517-8424, or present your receipt of payment for classes at the circulation desk, along with your I.D., at any of the Maricopa Community College libraries.

Call 480-517-8424 for more information, or to request assistance.

## Tutoring

Our tutoring services are designed to help you succeed in college. At Rio Salado we make it easy to ask for help. We provide up to 4 hours weekly of free tutoring per credit class (subject to availability). Writing assistance is available for all subjects. Tutoring services are convenient and flexible. Help is available by the following methods:

- Beep-A-Tutor/phone
- In-Person Tutor Labs
- Cyber Tutor (online)

Call 480-517-8577 or 480-517-8540 for more information or visit our web site at:

✓ <http://www.rio.maricopa.edu>







# Registration Information

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## Registering for Classes

If you need help selecting courses, please call an advisor at 480-517-8540.

### In Person and Phone Registration Hours:

|                     |                   |
|---------------------|-------------------|
| Monday & Thursday   | 8:00 AM - 6:00 PM |
| Tuesday & Wednesday | 8:00 AM - 7:30 PM |
| Friday              | 8:00 AM - 5:00 PM |
| Saturday            | 9:00 AM - 1:00 PM |

### By Phone

Call 480-517-8150 (or 1-800-729-1197 out-of-state).

When you call, have the following information ready:

1. Social Security number.
2. Course identification, section number and title.
3. Credit card number (MasterCard, Visa, American Express, Discover/Novus) and expiration date if paying by credit card (payment can also be made by check or money order).
4. Placement scores for English, reading, or math or proof of prerequisite.

### By Mail/Fax

1. Complete a Student Information Form.
2. Select your courses.
3. Mail your completed form and copy of your placement test scores (if registering for English, reading or math), along with check, money order, or credit card information to: Rio Salado College  
2323 West 14th Street  
Tempe, AZ 85281 or
4. Fax completed Student Information Form, with credit card number and expiration date, to 480-517-8199.

### Online/Maricopa Online

New and continuing students can register and pay online. Visit our web site at: ✓ <http://www.rio.maricopa.edu>

Courses that require a prerequisite or placement exam are not available through Maricopa Online.

### Touchtone Phone/CARL

Continuing students can register and pay using the Computer Assisted Registration Line. Call 480-731-8255.

### In Person

Come to the Rio Tempe office or to the nearest Rio office. Pay by credit card (MasterCard, Visa, American Express, Discover) or check. At Rio Tempe, you may also pay by cash, check or money order.

## Cancellations, Drop/Add, and Withdrawals

### Class Cancellation

Rio Salado College reserves the right to cancel classes based on class size; to make other changes as college needs require; and to change, without notice, any of the information, requirements and regulations published in the schedule of classes.

### Drop/Add

During the drop/add period, students may revise their programs by dropping and/or adding any available classes. These changes can be made by calling the Admissions and Records Office at 480-517-8150.

For 13-15 week classes, after the drop/add period, students may be permitted to change their schedule only after consultation with the instructors involved. Deadlines for full refund and tuition/fee cancellation are published each semester in the schedule of classes.

When registering for flex start classes, which start every two weeks, registration must be received by the Saturday preceding the Monday start date.

### Withdrawals

A student who must withdraw from a class after the drop/add period must inform the Admissions and Records office. Failure to withdraw officially may result in a punitive grade on a transcript and responsibility for any unpaid tuition and fees. Call 480-517-8150 for withdrawal information.

## Change of Student Address or Telephone Number

All students who have a change of address or telephone number should notify the Rio Salado Admissions and Records Office immediately so that records can be accurate.



- Call 480-517-8150.
- Students can also change their address online at: ✓ <http://www.rio.maricopa.edu>

## Registration/Enrollment

Students must register according to the dates indicated and in the manner described in the college class schedule. To be eligible for registration, students must have completed the appropriate steps listed under Admissions. Enrollment is not complete until tuition and fees are paid. Students may not attend a class for which they are not registered.

### Concurrent Enrollment in Arizona Public Institutions of Higher Education (A.R.S. §15-1807)

It is unlawful for any non-resident student to register concurrently in two or more public institutions of higher education in this state including any university, college or community college for a combined student credit hour enrollment of more than six (6) credit hours without payment of non-resident tuition at one of such institutions.

Any non-resident student desiring to enroll concurrently in two or more public institutions of higher education in this state including any university or community college for a combined total of more than six (6) credit hours who is not subject to non-resident tuition at any of such institutions shall pay the non-resident tuition at the institution of his choice in an amount equivalent to non-resident tuition at such institution for the combined total of credit hours for which the non-resident student is concurrently enrolled.

### Academic Load

Students carrying at least twelve (12) credit hours will be considered full-time students for the fall and spring semesters. Three-quarter-time is 9 - 11.9 credit hours. Half-time is 6 - 8.9 credit hours. Fewer than six (6) credit hours is considered less than half-time. Academic load for summer and special terms may be defined differently. Contact the Office of Admissions and Records for clarification.

Courses may vary in length, and begin and end throughout the year. A credit hour indicates the value of an academic credit. Standards for the awarding of credit hours may be time based or competency based. To obtain credit, a student must be properly registered and must pay fees for the course. The fall and spring semesters are typically sixteen (16) weeks in length. Summer sessions are typically five or eight weeks in length.

Students desiring to take more than eighteen (18) credit hours must obtain approval from the designated college official. Ordinarily, only students with a grade point average of 3.0 or higher for the preceding semester or first semester students who were in the upper quarter of their high school graduating class are permitted to carry more than eighteen (18) credit hours.

Students participating in extra-curricular or co-curricular activities or receiving financial assistance may be required to maintain a specified minimum academic load.

Students who are working, have considerable extra-curricular or co-curricular activities, or have been reinstated

from academic suspension/probation should plan their academic load accordingly.

### Schedule Changes

Students may change their schedule by following the designated procedures at their college of enrollment. It is the student's responsibility to notify the college if he/she will no longer be attending class (see withdrawal policy).

### Fees - Time of Payment

All tuition, fees, assessments and deposits must be paid at the time of registration or by the specified deadline date and in accordance with the fee schedule approved by the State Board of Directors for Community Colleges of Arizona. Enrollment is not complete until tuition and fees are paid.

### Outstanding Debts

Any debt or returned check may revoke a student's current enrollment and the student's right to register in subsequent semesters at all Maricopa Community Colleges. Delinquent debts may require penalties, late charges, collection costs, and/or legal fees to be paid before good standing is restored to the student.

The following procedure will be used for the collection of returned checks and other outstanding debts:

1. The college fiscal agent is responsible for:
  - a) verifying the student's districtwide debt,
  - b) notifying the student of the debt,
  - c) attempting to collect the debt, and
  - d) notifying credit reporting organizations of the debt.
2. All Maricopa Community College services will be withheld pending payment of debt at college fiscal office with cash, certified check or money order. Student may be withdrawn from classes.
3. If other attempts fail, the Maricopa Community Colleges District Office will either collect or use other means available, including:
  - a) collection agency, requiring payment of collection fees by the student;
  - b) the Tax Refund Setoff Programs as stated in A.R.S. §42-133;
  - c) litigation, requiring payment of court costs and legal fees by the student.

# Registration Policies

## Admissions

Persons meeting the admissions criteria may attend any Maricopa Community College of their choice. Falsification of any admission materials or official college records may be cause for denial or cancellation of admission. Exceptions to the admissions policies may be requested through the Admissions and Standards Committee.

## Admissions Classifications

The following admission criteria have been adopted by the State Board of Directors for Community Colleges of Arizona:

### A. Admission of Regular Students

Admission to the community college in Arizona may be granted to any person who meets at least one of the following criteria:

1. Is a graduate of a high school, which is accredited by a regional accrediting association as defined by the United States Office of Education or approved by a State Department of Education or other appropriate state educational agency.
2. Has a high school certificate of equivalency.
3. Is 18 years of age or older and demonstrates evidence of potential success in the community college.
4. Is a transfer student in good standing from another college or university.

### B. Admission of Students Under 18 Years of Age

1. Admission to the community colleges in Arizona shall be granted to any student who is under age 18 and who achieves the following test scores:
  - a. Scholastic Aptitude Test (SAT) composite (verbal and math)
    - SAT I - 930 or more, or
    - SAT II - 500 or more, or an
  - b. American College Test (ACT) composite of 22 or more.
2. A student shall not be denied admission because of age, lack of a high school diploma or high school certificate of equivalency, grade in school, lack of permission of school officials or lack of concurrent enrollment in a public or private school, if the student has achieved at least the test scores specified in paragraph 1, subparagraphs a or b of this subsection.
3. A student admitted under this subsection is not guaranteed admission to a specific degree program or to all courses offered by the community college.
4. A community college may limit the number of credit hours in which the student may enroll to no fewer than six (6) credit hours.

### C. Admission of Students in Special Status

Students not meeting any of the provisions stated above may be admitted on an individual basis with the approval of college officials, so long as the students meet the established requirements of the courses for which they enroll and the college officials determine that such admission is in the best interest of the students.

The status of "Special Admissions" may be granted to a student who:

1. Is beyond the age of compulsory high school attendance and has met the established requirements for the courses for which he or she plans to enroll based on the college assessment examinations, or
2. Is under the age of 18 and has taken the appropriate college assessment tests in order to demonstrate the knowledge of the necessary academic skill level to benefit from the course. (Signature of parent or guardian is required for students under 18), or
3. Is a participant in a special program sponsored by the admitting college.

THE COLLEGES RESERVE THE RIGHT TO ENROLL STUDENTS IN COURSES. The final decision for admission to any class for students admitted under "special" status will be determined by the designated college administrator in consultation with the department chairperson.

### D. Specialized Vocational/Training Program

If districts are granted authority for specialized curricula, local district boards shall adopt guidelines to determine admissibility of students for such programs. These guidelines must be approved by the State Board of Directors for Community Colleges of Arizona.

### E. Admission of F-1 Nonimmigrant Students

Prospective students should contact the Office of Admissions and Records or designated office for the necessary student information form(s). When completed, the form(s) should be returned to the Office of Admissions and Records or designated office with all requested supporting documents. After the file has been reviewed, a notice will be sent indicating either acceptance or denial of admission.

To be guaranteed consideration for admission, all application materials must be received by July 1 for the fall semester and November 1 for the spring semester.

Prospective students seeking admission based on F-1 nonimmigrant status must have the equivalent of a United States high school diploma. It is recommended that F-1 nonimmigrant students have graduated in the upper 50% of their secondary school (high school or equivalent) in order to ensure success in academic classes at this college. Applicants for admission to the college must have high school and college (if applicable) transcripts sent directly from the high school or college to the Office of Admissions and Records or designated office. In addition, it is the applicant's responsibility to have all transcripts translated into English and evaluated by a foreign credential evaluation service if necessary.

Registration Policies

**1. Admission to Academic Programs**

Applicants who wish to enroll in an academic program at the college must present evidence of English language proficiency. If the Test of English as a Foreign Language (TOEFL) is used to satisfy this requirement, the applicant must attain a score of at least 500 (on the traditional TOEFL) or 173 (on the computer-based test.) The dean or director of admissions and records of the college may accept other proof of English language proficiency for admission purposes.

Questions about the TOEFL should be directed to the Educational Testing Services at the following address: TOEFL Services

P.O. Box 6151  
Princeton, NY 08541-6151

**2. Admission to the Intensive English Program**

An applicant for admission to the Intensive English Program must provide evidence of at least intermediate command of English by way of one or more of the following criteria:

- At least six years of English language instruction as shown by the applicant's school transcript(s);
- A minimum TOEFL score of 400 on the traditional TOEFL or 97 on the computer-based test;
- An original letter of recommendation from a teacher, school principal, or the director of an English language institute attesting to the applicant's proficiency at the intermediate level;
- Other credentials, test scores, interview results, or evidence accepted by the coordinator of the intensive English program or the college's responsible designee.

Students admitted to the Intensive English Program will not be allowed to enroll in courses outside those officially designated as part of the program unless and until they have met all of the prerequisites or other course requirements.



**3. Financial Support**

Evidence of financial support will be required prior to issuance of the I-20 form. The colleges have no scholarship provisions for foreign students; therefore, students must be fully prepared to meet the necessary financial obligations for the full time they will be in the United States.

The colleges estimate the student's average costs for 12 months to be:

|                          |    |            |              |
|--------------------------|----|------------|--------------|
| Tuition and fees:        | \$ | 5,100      | <sup>1</sup> |
| Living Expenses:         |    | 10,400     | <sup>2</sup> |
| Books:                   |    | 800        | <sup>3</sup> |
| <u>Health Insurance:</u> |    | <u>600</u> | <sup>4</sup> |
| Total                    | \$ | 16,900     | <sup>5</sup> |

Note: These figures may vary slightly depending on the Maricopa community college. Check with the Office of Admissions and Records or designated office for more information.

Footnotes:

1. Based on 2000-2001 tuition and fee schedule with enrollment in 28 credits.
2. Based on estimated costs of apartment rental, utilities, local transportation, food, and entertainment.
3. Based on average new and used textbook prices. Assumes books are sold at the end of the semester.
4. Based on 2000-2001 insurance premium for the Lower Mark Plus Plan required by the MCCCCD.
5. Applicants must provide evidence of this minimum amount of financial support before an I-20 is issued.

**4. Health Insurance**

All F-1 students who have an I-20 issued by one of the Maricopa Community Colleges must have an approved health insurance plan. The plan currently in use in MCCCCD colleges is the Lower Mark Plus Plan offered by General American Life Insurance Company through the Lower Agency. For more information, contact the Office of Admissions and Records or designated office.

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## Registration Policies

**Admission Information**

Students must file a Student Information Form with the Office of Admissions and Records at the college of attendance. There is no charge for this service.

**Student Information Form**

A Student Information Form must be completed and filed with the Office of Admissions and Records. There is no fee.

**Student Status**

- **Freshman** - A student who has completed fewer than 30 credit hours in 100-level courses and above.
- **Sophomore** - A student who has completed 30 credit hours or more in 100-level courses and above.
- **Unclassified** - A student who has earned an associate degree or higher.

**Student Identification Number**

The social security number is generally used as the student's identification number. Disclosure of the social security number is voluntary and an alternate student identification number may be requested (A.R.S. §15-1823). Correct social security numbers must be on file for reporting information pertaining to potential educational tax credits and for processing federal financial aid applications. Choosing an alternative identification number may delay matching of educational records.

**Declaration of Previous College Attendance**

Students who have attended other colleges are required to give the names of those colleges when they apply for admission to one of the Maricopa Community Colleges. If this is not done, enrollment in the college may be canceled.

Transfer students who do not meet the minimum grade point averages listed under Scholastic Standards on page 140 may be admitted on academic probation.

**Other Admission Information****Veterans**

By Arizona statute, any failing grades from any Arizona university or community college that were received prior to military service will not be used to determine admission to the community college for the honorably discharged veterans with two years' service in the Armed Forces of the United States.

Students admitted or re-admitted to the community college under this statute are subject to progression, retention, graduation and other academic regulations and standards.

**Ability to Benefit - Classifications**

Federal guidelines require that students without a high school diploma or certificate of equivalency who are applying for financial aid must demonstrate the ability to benefit. Evaluation during the admission process results in the student being admitted to the college with the status of **Regular**, **Regular with Provisional Requirements**, or **Special**.

- **Regular status** is granted to an individual admitted to the college who is a high school graduate or has a GED certificate. A student without a high school diploma or GED certification and beyond the age of compulsory high school attendance may be a regular status student if the student has been assessed to benefit from college instruction by receiving qualifying scores on approved assessment instruments. All regular status students must be pursuing a degree/certificate or be in an eligible program.
- **Regular with Provisional Requirements status** is granted to a student admitted to the college who is not a high school graduate, does not have a GED certificate, and is beyond the age of compulsory high school attendance but has been assessed to benefit from college instruction requiring developmental/remedial coursework and is pursuing a degree/certificate or be in an eligible program.
- **Special status** is granted to a student admitted to the college for concurrent enrollment or pursuing one or more courses of special interest and who meets all the State Board of Directors for Community Colleges of Arizona requirements for admission.

**Transcripts**

The Maricopa Community Colleges reserve the right to require transcripts for clarification or admission to specific programs, for participation in official athletic events, and for determination of academic standing and eligibility. When an official transcript is required, the transcript must be sent directly to the college Office of Admissions and Records. It is the student's responsibility to ensure that transcripts have been received and are complete.

Students entering as high school graduates may be required to submit high school transcripts. Students entering as GED recipients may be required to present a copy of the high school equivalency certificate or official report of qualifying GED scores.

**Educational Assessment**

All students are encouraged to undergo an educational assessment to determine course placement. Prospective students who do not possess a high school diploma or GED equivalence certificate are required to complete an educational assessment to determine their ability to benefit from college instruction. See Student Assessment and Course Placement Policy on page 17.

## Residency Guidelines

All students are classified for tuition purposes under one of the following residency classifications:

1. Maricopa County resident
2. Out-of-County resident
3. Out-of-State resident (including F-1 non-immigrant students)
4. Unclassified, Out-of-County, Out-of-State (1-6 credit hours system-wide)

Guidelines used to determine residency for tuition purposes are a combination of statutory law (A.R.S. §15-1801 et. sec.) and regulations of the State Board of Directors for Community Colleges of Arizona (R7-1-304). All of the Maricopa Community Colleges are subject to the above statutes and regulations. Students who have questions about their residency should contact the Office of Admissions and Records for clarification.

## Implementation of Guidelines

1. Domicile status must be established before the student registers and pays fees. It is the student's responsibility to register under the correct domicile status.
2. Enforcement of domicile requirements shall be the responsibility of the Chancellor of the Maricopa Community Colleges. The Chancellor has charged the Director of Admissions and Records or other designee at each college to make the initial domicile classification. In determining a student's classification, the college may consider all evidence, written or oral, presented by the student and any other information received from any source which is relevant to determining classification. The college may request written sworn statements or sworn testimony of the student.
3. A request for review of the initial classification may be made to a district review committee. The request must be in writing, signed by the student and accompanied by a sworn statement of all facts relevant to the matter. The request must be filed with the admissions officer of the college within ten days of receipt of notification of classification as a non-resident. Failure to properly file a request for review within the prescribed time limit constitutes a waiver of review for the current enrollment period. The decision of the review committee shall be final.

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### Definitions

- **Armed Forces of the United States** means the army, the navy, the air force, the marine corps, the coast guard, the commissioned corps of the United States public health services, the national oceanographic and atmospheric association administration, the national guard, and any military reserve unit of any branch of the armed forces of the United States.
- **Continuous attendance** means enrollment at one of Maricopa Community Colleges as a full-time or part-time student for a normal academic year since the beginning of the period for which continuous attendance is claimed. Students need not attend summer sessions or other such intersession beyond the normal academic year in order to maintain continuous attendance.
- **County resident** means an individual who has lived in the county for at least fifty (50) days before the first day of classes of the semester.
- **Domicile** means a person's true, fixed, and permanent home and place of habitation. It is the place where he or she intends to remain and to which he or she expects to return when he or she leaves without intending to establish a new domicile elsewhere.
- **Emancipated person** means a person who is neither under a legal duty of service to his parent nor entitled to the support of such parent under the laws of this state.
- **Full-time student** means one who registers for at least twelve (12) credit hours per semester.
- **Part-time student** means one who registers for fewer than twelve (12) credit hours per semester.
- **Parent** means a person's father, or mother, or if one parent has custody, that parent, or if there is no surviving parent or the whereabouts of the parents are unknown, then a guardian of an unemancipated person if there are not circumstances indicating that such guardianship was created primarily for the purpose of conferring the status of an in-state student on such unemancipated person.

## Residency Guidelines

**Criteria for Determining Residency**

The following criteria for determining a student's residency have been reproduced from Arizona statutes, State Board of Directors for Community Colleges of Arizona regulations and guidelines adopted by the Maricopa Community Colleges Governing Board.

**In-State Student Status**

- A. Except as otherwise provided in this article, no person having a domicile elsewhere than in this state is eligible for classification as an in-state student for tuition purposes.
- B. A person is not entitled to classification as an in-state student until he or she is domiciled in this state for one year preceding the official starting day of the semester, except that a person whose domicile is in this state is entitled to classification as an in-state student if:
  1. His or her parent's domicile is in this state and his parent is allowed to claim him or her as an exemption for state and federal tax purposes.
  2. He or she is an employee of an employer which transferred him or her to this state for employment purposes or he or she is the spouse of such employee.
- C. The domicile of an unemancipated person is that of such person's parent.
- D. An unemancipated person who remains in this state when such person's parent, who had been domiciled in this state, removes from this state is entitled to classification as an in-state student until attainment of the degree for which currently enrolled, as long as such person maintains continuous attendance.
- E. A person who is a member of the Armed Forces of the United States and who is stationed in this state pursuant to military orders or who is the spouse or a dependent child of a person who is a member of the armed forces of the United States and who is stationed in this state pursuant to military orders is entitled to classification as an in-state student. The student does not lose in-state student classification while in continuous attendance toward the degree for which he or she is currently enrolled.
- F. A person who is a member of the armed forces of the United States or the spouse or a dependent of a member of the armed forces of the United States is entitled to classification as an in-state student if the member of the armed forces has claimed this state as the person's state of home record for at least twelve consecutive months before the member of the armed forces, spouse or dependent enrolls in a university under the jurisdiction of the Arizona board of regents or a community college under jurisdiction of the state board of directors for community colleges. For purposes of this subsection, the requirement that a person be domiciled in this state for one year before enrollment to qualify for in-state student classification does not apply.
- G. A person who is honorably discharged from the armed forces of the United States shall be granted immediate classification as an in-state student on honorable discharge from the armed forces and, while in continuous attendance toward the degree for which currently enrolled, does not lose in-state student classification if the person has met all of the following requirements:
  1. Declared Arizona as the person's legal residence with the person's branch of service at least one year prior to discharge from the armed forces.
  2. Demonstrated objective evidence of intent to be a resident of Arizona which, for the purposes of this section, include at least one of the following:
    - a) An Arizona driver's license.
    - b) Arizona motor vehicle registration.
    - c) Employment history in Arizona.
    - d) Arizona voter registration.
    - e) Transfer of major banking services to Arizona.
    - f) Change of permanent address on all pertinent records.
    - g) Other materials of whatever kind or source relevant to domicile or residency status.
  3. Filed an Arizona income tax return with the department of revenue during the previous tax year.
- H. A person who is a member of an Indian tribe recognized by the United States Department of the Interior whose reservation land lies in the state and extends into another state and who is a resident of the reservation is entitled to classification as an in-state student.



## Residency Guidelines

## Alien In-State Student Status

- A. An alien shall be classified as an in-state student if the alien can establish that on or before the official starting date of the semester the alien meets one of the following situations:
1. Has been domiciled in the state for at least one year immediately preceding the official starting date of the semester.
  2. Is domiciled in this state and:
    - a) The domicile of the alien's parent is in this state, and
    - b) The parent is entitled to claim the alien as an exemption for federal and state tax purposes.
  3. The alien is domiciled in this state and the alien is:
    - a) An employee of an employer which transferred the alien to this state for employment purposes, or
    - b) The spouse of such an employee.
  4. Qualifies as an in-state refugee student by virtue of having been granted refugee status in accordance with all applicable laws of the United States and having met all other requirements for domicile in this state.
- B. In establishing domicile, the alien must not hold a visa that prohibits establishing domicile in this state. After meeting other residency requirements, students holding valid, unexpired visas in the following categories may be classified as in-state students:
- A Foreign Government Official
  - E Treaty Trader
  - G Principal Resident Representative of Recognized Foreign Member Government to International Staff
  - H Temporary Worker in Professional Nursing/Specialty/Nonagricultural Occupations
  - I Representative of Foreign Information Media
  - K Fiancé or Child of Fiancé of U.S. Citizen
  - L Intracompany Transferee
  - N Parent or Child Accorded Special Immigrant Status
  - O Workers of "Extraordinary" Ability in Sciences, Arts, Education, Business, or Athletics
  - P "Internationally Recognized" Entertainers & Athletes, "Reciprocal Exchange" or "Culturally Unique" Artists & Entertainers
  - Q Cultural Exchange Visitors
  - R Religious Workers
  - V Spouses and Dependent Children of Lawful Permanent Residents
- I-688 Employment Authorization

- C. Students who hold visas as listed above, or who were issued a visa of a type other than those of the foregoing categories but have been out of status for at least one year, may establish domicile by complying with paragraphs A1, A2 or A3 above.
- In the event a student who is not a United States citizen intends to establish domicile under paragraphs A.2.a. (dependent of parent — parent domiciled in Arizona), the student's parent, in order to establish domicile, must hold a valid, unexpired visa in one of the categories listed in paragraph B. above. To be eligible to establish domicile, the parent must
1. hold a valid visa of a type as listed in paragraph B., or
  2. have never held a visa, or
  3. have been issued a visa of a type other than those of the foregoing categories but be out of status for at least one year.
- D. A person's status as an undocumented or illegal alien shall not preclude that person from being able to qualify as an in-state student on the same terms as other persons.
- E. An alien is entitled to classification as an in-state refugee student if such person has been granted refugee status in accordance with all applicable laws of the United States and has met all other requirements for domicile.

## Presumptions Relating to Student Status

Unless there is evidence to the contrary, the registering authority of the community college or university at which a student is registering will presume that:

- A. No emancipated person has established a domicile in this state while attending any educational institution in this state as a full-time student, as such status is defined by the State Board of Directors for Community Colleges of Arizona or the Arizona Board of Regents, in the absence of a clear demonstration to the contrary.
- B. Once established, a domicile is not lost by mere absence unaccompanied by intention to establish a new domicile.
- C. A person who has been domiciled in this state immediately before becoming a member of the Armed Forces of the United States shall not lose in-state status by reason of such person's presence in any other state or country while a member of the Armed Forces of the United States.

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**Proof of Residency**

When a student's residency is questioned, the following proof will be required:

**A. In-State Residency**

1. An affidavit signed by the student must be filed with the person responsible for verifying residency.
2. Any of the following may be used in determining a student's domicile in Arizona:
  - a) Income tax report
  - b) Voter registration
  - c) Automobile registration
  - d) Driver's license
  - e) Place of graduation from high school
  - f) Source of financial support
  - g) Dependency as indicated on federal income tax return
  - h) Ownership of real property
  - i) Notarized statement of landlord and/or employer
  - j) Bank accounts
  - k) Other relevant information

**B. County Residency**

1. An affidavit signed by the student must be filed with the person responsible for verifying domicile to prove continuous residency in a county for fifty (50) days, and
2. Any of the following may be used to determine a student's county residency:
  - a) Notarized statements of landlord and/or employer
  - b) County voter registration
  - c) Source of financial support
  - d) Place of graduation from high school
  - e) Ownership of real property
  - f) Bank accounts
  - g) Other relevant information

**Social Security Number**

A student's Social Security number is the student identification number and is used for admissions, registration, and records maintenance. If the student does not have a social security number or prefers not to use his/her number, the Admissions and Records Office will issue an ID number. Correct Social Security numbers are required to report information pertaining to potential education tax credit. Contact the Admissions and Records Office at 480-517-8150.

**Transcript Information**

To have a transcript of Rio Salado coursework sent to another college, send or fax to 480-517-8199 your request in writing to the Admissions and Records Office.

Unofficial transcripts are free of charge. Official transcripts cost \$5.00.

You can view your transcript or order an official transcript online at:

✓ <http://www.rio.maricopa.edu>.



# Financial Information

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## IN THIS SECTION

### Cashier's Office

### Financial Assistance

- How to Apply for Federal Financial Aid
- Satisfactory Academic Progress
- Refunds and Repayments
- Award Amount and Level of Enrollment

### Refund Policy for Credit Courses

- Canceled Classes
- Other Refunds

### Scholarships

### Tuition and Fees

- Policy
- Tuition and Fees Schedule
- Student Status
- Special Fees
- Non-Credit Courses/Seminars/Workshops/  
Community Services

### Veterans Affairs Office

## Financial Assistance

Rio Salado College and the Maricopa Community Colleges provide students financial assistance to enable access to higher education. Student financial assistance shall be awarded on the basis of demonstrated financial need except where funds are specified for recognition of special talents and achievements.

Financial aid applications are available at the Rio Salado Financial Aid Office at Rio Tempe, Rio Service Centers, any of the Maricopa Community Colleges, or by accessing the Rio Salado web page at:

✓ <http://www.rio.maricopa.edu>

*Go to Student Services, then Financial Aid/Scholarships.*

Office hours for the Financial Aid Office: Monday through Thursday 8:00 a.m. to 6:00 p.m. and Friday 8:00 a.m. to 5:00 p.m. Summer hours are Monday through Thursday 7:30 a.m. to 6:00 p.m., and 7:30 a.m. to 5:00 p.m. on Friday. Contact the Financial Aid Office at 480-517-8310.

### How to Apply for Federal Financial Aid

New students must complete the Free Application for Federal Student Aid (FAFSA) or FAFSA on the Web at:

✓ <http://www.fafsa.ed.gov>

Each academic year, continuing students must reapply by completing an FAFSA, Renewal FAFSA, or FAFSA on the Web. Scholarships require separate applications. Specific information regarding financial assistance, including application deadlines or priority dates, may be obtained from the Rio Salado Financial Aid Office.

### Types of Aid

Grants, loans, student employment, and scholarship funds may be available from federal, state, and/or private sources.

### Distribution of Aid

Criteria by which aid is distributed among eligible financial aid applicants are available on request at the Rio Salado Financial Aid Office.

### Rights and Responsibilities

Students should read all information provided in the process of applying for federal financial aid in order to gain a greater knowledge of all the rights as well as responsibilities involved in receiving that assistance.

### Satisfactory Academic Progress

Specific requirements for academic progress for financial aid recipients are applied differently than scholastic standards. In addition to scholastic standards which are explained elsewhere in this catalog, financial aid recipients are also subject to the following Standards of Satisfactory Academic Progress. Specific information is available at the Rio Salado Financial Aid Office.

#### Standards of Satisfactory Academic Progress (SAP) for Financial Aid Eligibility

Federal regulations (CFR 668.32(f) and 668.34) require a student to move toward the completion of a degree or certificate within an eligible program when receiving financial aid. Specific requirements for academic progress for financial aid recipients are applied differently than Scholastic Standards. Federal regulations state that Academic Progress Standards must include a review of all periods of enrollment, regardless of whether or not aid was received. The student must meet the following minimum standards in order to receive financial aid.

#### I. Evaluation of Financial Aid Eligibility

- A. Standards of Satisfactory Academic Progress (SAP) are applied once per year, beginning on or about June 1st to determine the eligibility for the following academic year.
- B. The evaluation period will be based on attendance in the immediate prior Spring, Fall, Summer term (example: for 2001-2002 academic year, academic progress will be evaluated on Spring 2001, Fall 2000, and Summer 2000).
- C. Credits evaluated will include credits attempted at the evaluating school and courses funded through consortium agreement.
- D. Students who do not meet the SAP will be notified. The student may follow the appeal process or the reinstatement procedures as outlined in sections V and VI.

## Cashier's Office

The Cashier's Office is located at the Rio Tempe Office and may be reached at 480-517-8330. You may pay tuition and other charges at the cashier's window, by mail, or by telephone using your credit card.

If you are eligible for a refund and have paid by check, allow a minimum of 10 days for your check to clear the bank before the refund can be issued.

Students are charged a \$15 fee (plus any collection fees) for every check that is returned by the bank.

Financial Assistance

II. Eligibility

A. Students must meet the following criteria:

1. Students who have attempted at least 6 credit hours in the last evaluation period must complete with a passing grade 2/3 of all credits attempted within that evaluation period,

OR

2. Students who have NOT attempted at least 6 credit hours in the last evaluation period must complete with passing grades 2/3 of ALL credits attempted.

AND

B. All students must meet the following minimum credit hour/cumulative GPA requirement

| <u>Credits Attempted*</u> | <u>Min GPA</u> |
|---------------------------|----------------|
| 12-15                     | 1.60           |
| 16-30                     | 1.75           |
| 31-45                     | 1.90           |
| 46 +                      | 2.00           |

*\*for which grade points are computed.*

*Note: Grades of F,I,N,W,X,Y,Z, and courses not yet graded are considered attempted but not meeting progress standards for the purposes of financial aid.*

III. Maximum Timeframe Eligibility

- A. Students who have attempted more than 150% of the credits required for their program of study are not considered to be making Satisfactory Academic Progress and, therefore, are ineligible for financial aid funds.
- B. All evaluated transfer credits will be included when determining maximum timeframe eligibility.
- C. A student with a bachelor's degree or higher will be considered to have exhausted maximum timeframe eligibility.
- D. A student may appeal as outlined in section V.
- E. Reinstatement procedures as outlined in section VI are not applicable to Maximum Timeframe Eligibility.

IV. Repeated, Audited, Consortium, Remedial Courses, Summer Sessions

- A. Financial aid may be used to cover the cost of repeated courses.
- B. Audited courses, non-credit courses, credit by examination, and any credit for prior learning option (as outlined in the catalog) are excluded when determining eligibility for financial aid.
- C. Courses funded through a consortium agreement are included in determining academic progress.
- D. All attempted remedial credits will be included when evaluating SAP. (A maximum of 30 remedial credit hours, excluding ESL courses, may be funded.)
- E. Enrollment in any or all summer sessions within the same calendar year will be considered one term.

V. Appeal Process

A student who has lost financial aid eligibility due to extenuating circumstances may appeal.

- A. Extenuating circumstances that may be considered include: personal illness or accident, serious illness or death within immediate family, or other circumstances beyond the reasonable control of the student.
- B. All appeals must be in writing to the Financial Aid Office where the student is applying for aid and include appropriate documentation.
- C. Examples of documentation could include an obituary notice, divorce decree, or a letter from a physician, attorney, social services agency, parole officer, etc.
- D. The condition or situation must be resolved which will allow the student the ability to complete course work successfully or an appeal will not be granted.
- E. The outcome of an appeal may include approval, a probationary period, or denial.
- F. A student will be notified in writing of the results of the appeal, and of any restrictions or conditions pertaining to their appeal.

VI. Reinstatement of Financial Aid Eligibility

- A. A student who has lost financial aid eligibility may be reinstated after the student has taken (without federal funds) at least six credit hours in a semester, passed all attempted credit hours, and meets minimum cumulative GPA requirements.
- B. If the student attempts more than six hours, the student will be evaluated on all attempted credit hours within that term.
- C. Classes taken at other colleges will not be taken into consideration for reinstatement purposes.
- D. It is the student's responsibility to notify the Rio Salado Financial Aid Office when this condition has been met.

For more information, please contact the Rio Salado Financial Aid Office at 480-517-8310.

Refunds and Repayments

In accordance with federal regulations (CFR 668.22), students may be required to repay federal financial aid funds if they completely withdraw or are withdrawn from all classes during a semester. This could affect a student's ability to receive financial aid in the future at any school. Further information is available at the Rio Salado Financial Aid Office.

Award Amount and Level of Enrollment

Award amount is determined, in part, on the level of enrollment. Federal student aid recipients are advised to register at the same time for all classes they intend to take during a semester to maximize award. Some federal aid may not be awarded for classes added at a later date. Contact the Rio Salado Financial Aid Office at 480-517-8310.

## Refund Policy for Credit Courses

All students who officially withdraw from the college or individual classes (in fall, spring, or summer) by the withdrawal process set forth in the catalog will receive a refund based on the following schedule. (Deadlines that fall on a weekend or a college holiday will advance to the next college workday.)

| Length of Term    | Deadline for Notice  | Amount of Refund of Enrollment & Course Fees* |
|-------------------|--|---|
| Each Class        | Any time prior to the day of the first class meeting   | 100%  |
| 13 or more weeks  | Within seven (7) calendar days including the day of the first class meeting                  | 100%  |
| 13 or more weeks  | Within eight (8) to fourteen (14) calendar days including the day of the first class meeting | 50%   |
| 10 to 12 weeks    | Within four (4) calendar days including the day of the first class meeting                   | 100%  |
| 3 to 9 weeks      | Within three (3) calendar days including the day of the first class meeting                  | 100%  |
| 3 days to 2 weeks | No later than the day of the first class meeting   | 100%  |
| Less than 3 days  | Prior to the day of the first class meeting  | 100%  |

*\*Course fees and registration processing fees will be refunded only if the student qualifies for a 100% refund.*

All refunds and deposits that may be due a student will first be applied to debts that the student owes the college. When federal student aid was used by a student-recipient to pay for tuition fees, the refund will be made to the federal fund, not to the student.

Refunds for students receiving federal financial assistance are subject to federal guidelines.



### Canceled Classes

When a class is canceled by the college, a 100% refund will be made for the canceled class.

### Other Refunds

Students withdrawing from a college or from courses for one of the following reasons must submit a written request for a refund to the Office of Admissions and Records:

- A student with a serious illness, verifiable by a doctor's written statement that the illness prevents the student from attending all classes for the semester. The doctor's statement must be on file with the college before a refund can be given.
- Serious illness or death of a family member that prevents the student from attending all classes for the semester. Appropriate documentation must be provided before a refund can be given.
- Death of a student. Appropriate documentation must be provided before a refund can be given.

Requests for a total withdrawal from a college or courses for one of the above reasons may result in a prorated refund of tuition, provided courses have not been completed.

A student in the Armed Forces or the Arizona National Guard who is called to active duty and assigned to a duty station, verifiable by a copy of the orders, will be allowed to withdraw and receive a 100% refund of tuition, provided courses have not been completed.

## Scholarships

Rio Salado students in good standing are eligible to apply for scholarship funds to assist them with tuition costs. Scholarship awards are based on financial need and merit. Applications are available from the Financial Aid Office, Rio Service Centers, Student Services or on the Rio Salado web page at:

✓ <http://www.rio.maricopa.edu>

*Go to Student Services, then Financial Aid/Scholarships.*

Applications will be evaluated by the Rio Salado Scholarship Committee and you will be notified of their decision. Please allow at least three (3) weeks for your application to be processed.

If you have additional questions regarding scholarships, please contact the Rio Salado Financial Aid Office at 480-517-8310 or the Student Services Scholarship Office at 480-517-8540.

Additional information on privately funded scholarships are available at public libraries, and on the Rio Salado web page at:

✓ <http://www.rio.maricopa.edu>

*Go to Student Services, then Financial Aid / Scholarships / Internet Sources.*

# Tuition and Fees

## Policy

Tuition and fees are public monies within the jurisdiction and responsibility of the Maricopa Community Colleges Governing Board under the laws and regulations of the State of Arizona and must be administered by the Governing Board. The Governing Board reserves the right to change tuition and fee charges when necessary without notice.

Students attending more than one Maricopa Community College will be assessed fees for their enrollment at each of the Maricopa Community Colleges/Centers. (Students who are considered to be out-of-state residents for tuition and fees purposes should refer to the Concurrent Enrollment in Arizona Public Institutions of Higher Education policy on page 27.)

All tuition, fees, assessments and deposits must be paid at the time of registration or by the specified deadline date and in accordance with the fee schedule approved by the State Board of Directors for Community Colleges of Arizona. Enrollment is not complete until tuition and fees are paid.

## Tuition and Fees Schedule

(effective July 1, 2001 for Fall, Spring and Summer Sessions - **Subject to State Board Approval**)

The following is a tuition and fees schedule for 2001-2002 and is provided for reference. These tuition and fees are subject to change. Consult the college's Office of Admissions and Records for fees in effect at the time you intend to register.

## Student Status

1. **County Resident - Resident Rate:** per credit hour  
General Tuition: \$30.50 plus Fees: \$12.50..... \$43.00
2. **County Resident - Audit Rate:** per credit hour  
Audit Fee Surcharge: \$25.00 plus  
General Tuition: \$30.50 plus Fees: \$ 12.50..... \$68.00
3. **Out-of-County Resident:**  
(7 & more credit hours system-wide) - per credit hour  
Out-of-County Surcharge: \$149.00/TBD  
(Applies only to counties with no  
community college) plus General Tuition:  
\$30.50 plus Fees: \$ 12.50 ..... \$192.00
4. **Out-of-State Resident:\***  
(including F-1 Non-immigrants - 7 & more credit  
hours system-wide) - per credit hour  
Out-of-State Surcharge: \$137.00 plus  
General Tuition: \$30.50 plus Fees: \$ 12.50 .... \$180.00
5. **Unclassified Student - Out-of-State, Out-of-County:\***  
(less than 7 credit hours system-wide) - per credit hour  
Unclassified Student Surcharge: \$ 25.00 plus  
General Tuition: \$30.50 plus Fees: \$12.50..... \$68.00

6. **Out-of-State students participating in Western Undergraduate Exchange Program:\***  
(any number of credit hours) - per credit hour  
WUE Out-of-State Surcharge: \$21.50 plus  
General Tuition: \$30.50 plus Fees: \$12.50..... \$64.50
7. **Courses offered out of Arizona, including distance learning, to non-resident out-of-state students:** - per credit hour..... \$125.00
8. **Corporate Tuition Rate - Out-of-State:\***  
(any number of credit hours) for out-of-state employees of companies in training contracts with Maricopa - per credit hour  
Out-of-State Surcharge: \$63.00 plus  
General Tuition: \$30.50 plus Fees: \$12.50 .... \$106.00
9. **Skill Center Tuition Rates:**  
- Hourly Tuition: ..... \$3.25
10. **Credit by Examination & Credit by Evaluation:**  
- per credit hour - excludes HCIES courses  
Regular Rate: ..... \$30.50  
Contract Testing Rate:..... \$15.25

Students from the following counties are considered out-of-county and should check with their local County Board of Supervisors about out-of-county tuition and fee payments:

- Apache           • Gila
- Greenlee       • Santa Cruz

Students from any other county in Arizona are considered in-county due to a reciprocal arrangement with that county.

*\*According to Arizona Revised Statute, 15-1802F: "A person who is a member of an Indian tribe recognized by the US Department of the Interior whose reservation lies in this state and extends into another state and who is a resident of the reservation is entitled to classification as an in-state student." Therefore, unclassified and out-of-state surcharges do not apply to such students.*

## Special Fees

The following fees are in addition to applicable tuition and fees:

|   |              |
|---|--------------|
| <b>Check Returned from Bank</b> .....                   | 15.00        |
| <b>Child Care Fees:</b> (per clock hour)                |              |
| GWCC .....  | 1.50         |
| PVCC .....  | 2.00         |
| SCC .....   | 2.25         |
| All other colleges*                                     | 1.75         |
| <i>* Childcare not available at Rio Salado College.</i> |              |
| <b>Course Materials Fee</b> .....                       | actual cost  |
| <b>Distance Learning Fees</b> .....                     | up to 225.00 |
| <b>Emergency Medical Technology (EMT)</b>               |              |
| actual cost, not to exceed .....                        | 400.00       |
| <b>Excessive Laboratory Breakage</b> .....              | actual cost  |
| <b>Field Studies</b> .....                              | actual cost  |
| <b>Fitness Center</b> .....                             | 20.00        |

CONTINUED

FINANCIAL INFORMATION

Tuition and Fees

**GED**

|                                     |       |
|-------------------------------------|-------|
| First Test . . . . .                | 40.00 |
| Test repeat (per section) . . . . . | 10.00 |

**General Laboratory & Course Fees** . . . not to exceed 25.00

**Graduation Fees:**

|   |       |
|---|-------|
| Application/Recording/Issuance Fee<br>(Degrees/Certificates - 25 or more credits)<br>non refundable . . . . . | 5.00  |
| Commencement Fee<br>(One time fee refundable up to<br>2 weeks prior to graduation) . . . . .                  | 10.00 |

**HCIES Skills Demonstration Assessment Fee** . . . actual cost

**Library Fines** - lost materials (List price) + . . . . . 5.00

**Parking Fines:**

|  |       |
|--|-------|
| Displaying an altered or substituted permit . . . . .                                  | 50.00 |
| Failure to register a vehicle and display<br>a parking permit . . . . .                | 30.00 |
| Falsifying information on vehicle<br>registration application . . . . .                | 50.00 |
| Improperly displaying a parking permit . . . . .                                       | 5.00  |
| Obstructing a properly parked/moving vehicle . . . . .                                 | 5.00  |
| Parking in an unauthorized parking area . . . . .                                      | 15.00 |
| Parking by a college employee or student<br>in a visitor area . . . . .                | 5.00  |
| Parking in a Fire Lane . . . . .   | 50.00 |
| Parking on or blocking a pedestrian path . . . . .                                     | 5.00  |
| Parking outside stall lines . . . . .  | 5.00  |
| Parking beyond posted time limit . . . . .   | 5.00  |
| Parking in an undesignated, restricted,<br>or unauthorized off-pavement area . . . . . | 5.00  |
| Removing a barricade or failure to obey<br>vehicle control device . . . . .            | 15.00 |
| Violating disabled parking stall or access . . . . .                                   | 50.00 |

*(All fines are doubled if not paid within 15 working days.)*

**Private Music Lessons:**

**Music Majors**

|  |       |
|--|-------|
| First 1/2 hr per wk/per semester . . . . .           | 0.00  |
| Each additional 1/2 hr per wk/per semester . . . . . | 65.00 |

**Non-Music Majors**

|  |        |
|--|--------|
| First 1/2 hr per wk/per semester . . . . .           | 200.00 |
| Each additional 1/2 hr per wk/per semester . . . . . | 200.00 |

**Registration Processing Fee** - credit classes only  
(per student/semester refundable only if student  
qualifies for 100% refund, see refund schedule, p. 38) . . . 5.00

**Transcript Fee** . . . . . 5.00

**College Specific Fees: (not inclusive)**

**Aeronautics Fee** (Chandler-Gilbert)

|                                 |       |
|---------------------------------|-------|
| AET 205, 215, 225 . . . . .     | 60.00 |
| AMT . . . . .                   | 90.00 |
| Aviation Industry Lab . . . . . | 50.00 |
| AVT . . . . .                   | 40.00 |

**Anthropology Field School Fee**

|  |       |
|--|-------|
| (Glendale) (non-refundable)<br>ABS 231 . . . . . | 80.00 |
|--|-------|

**Art (Scottsdale)**

|  |       |
|--|-------|
| ART 169 Two-dimensional Compt Design . . . . .   | 50.00 |
| ART 170 Three-dimensional Compt Design . . . . . | 50.00 |
| ART 175 Electronic Publishing Design I . . . . . | 50.00 |
| ART 177 Computer Photographic Imaging . . . . .  | 50.00 |
| ART 179 Electronic Presentation Design . . . . . | 50.00 |
| ART 181 Graphic Design I . . . . .               | 50.00 |
| ART 182 Graphic Design II . . . . .              | 50.00 |
| ART 183 Computer-Aided Graphic Arts I . . . . .  | 50.00 |
| ART 184 Computer Animation . . . . .             | 50.00 |
| ART 185 Modeling for Animation . . . . .         | 50.00 |
| ART 186 Modeling for Digital Media . . . . .     | 50.00 |
| ART 190 Art of West Site Design . . . . .        | 50.00 |
| ART 192 3-D Modeling for Digital Media . . . . . | 50.00 |
| ART 194 3-D Modeling for Animation . . . . .     | 50.00 |
| ART 273 Intmd Computer Photo Imaging . . . . .   | 50.00 |
| ART 274 Adv Computer Photo . . . . .             | 50.00 |
| ART 281 Graphic Design III . . . . .             | 50.00 |
| ART 282 Graphic Design IV . . . . .              | 50.00 |
| ART 283 Computer-Aided Graphic Arts II . . . . . | 50.00 |
| ART 284 Intermedia Animation . . . . .           | 50.00 |
| ART 285 Multipresentation Graphics . . . . .     | 50.00 |
| ART 289 Computer Illustration . . . . .          | 50.00 |
| ART 291 Digital Prepress . . . . .               | 50.00 |

**Applied Business (Phoenix)** . . . . . 52.00

|                                |
|--------------------------------|
| BPC 102 AD, BD                 |
| BPC 103 AJ, BJ, CJ, AB, BB, CB |
| BPC 104 AD, BD, CD             |
| BPC 107, AH, BH                |

**Auto Body (Glendale)** AUT 121AA, 122AA . . . . . 65.00

*The following fees apply in addition to regular lab fees:*

|  |       |
|--|-------|
| AUT 270AA, additional fees for AUT 103AB . . . . . | 95.00 |
| AUT 270AA, additional fees for AUT 107AC . . . . . | 65.00 |
| AUT 270AA, additional fees for AUT 108AB . . . . . | 95.00 |
| AUT 270AA, additional fees for AUT 109AC . . . . . | 95.00 |

**Backpack Fee** (Paradise Valley) . . . . . 50.00

**CISCO (GateWay)**

|   |       |
|---|-------|
| CNT 140 Cisco Networking Fundamentals . . . . .         | 30.00 |
| CNT 150 Cisco Networking Router Tech . . . . .          | 30.00 |
| CNT 160 Cisco Adv Routing & Switching . . . . .         | 30.00 |
| CNT 170 Cisco Project Based Learning . . . . .          | 30.00 |
| CNT 180 Cisco Network Design . . . . .                  | 30.00 |
| CNT 200 Cisco Networking<br>Adv Configuration . . . . . | 30.00 |
| CNT 210 Remote – Access Networks . . . . .              | 30.00 |
| CNT 220 Multi-Layer Switching . . . . .                 | 30.00 |
| CNT 230 Network Troubleshooting . . . . .               | 30.00 |

**Conservatory Theater Fee** -

|                                    |        |
|------------------------------------|--------|
| Summer only (Scottsdale) . . . . . | 100.00 |
|------------------------------------|--------|

**Covey Training**

(GateWay, Scottsdale, South Mountain)

|  |       |
|--|-------|
| COV 110AA Intro to Seven Habits of<br>Highly Effective People . . . . .          | 55.00 |
| COV 110AB Seven Habits of Highly<br>Effective People - Advanced Applic . . . . . | 35.00 |



FINANCIAL INFORMATION

Tuition and Fees

|   |        |   |  |             |
|---|--------|---|--|-------------|
| COV 110 Seven Habits of Highly Effective People .....   | 75.00  | <b>Fire Science (Glendale)</b>                          | FSC 102 Fire Ops I.....                  | 100.00      |
| COV 115 First Things First .....  | 35.00  | <b>Fire Science (Mesa)</b>                              | FSC 102 Fire Ops I.....                  | 100.00      |
| COV 116 Getting to Synergy .....  | 35.00  | FSC 109 Emergency Response.....                         | 120.00                                   |             |
| COV 120 Principle Centered Leadership .....   | 75.00  | FSC 134 Fire Fighter Fitness .....                      | 30.00                                    |             |
| <b>Culinary Arts Fee</b> - per semester (Scottsdale)  |        | <b>Health Science (GateWay)</b>                         | RES 247 Advanced Respiratory Care        |             |
| CUL 130, 230 .....  | 350.00 | Clinical II .....                                       | 40.00                                    |             |
| <b>Culinary Studies - Food &amp; Nutrition Program</b> (Phoenix)  |        | <b>Manufacturing Process Program</b> (Mesa)             | GTC 236 CAD/CAM Programming.....         | 65.00       |
| FON 179-183, 142AB, 130, 132 & 135 .....  | 40.00  | GTC 246 Advanced CAD/CAM Programming.....               | 65.00                                    |             |
| FON 118 & 218.....  | 35.00  | GTC 266 CAD/CAM Modeling.....                           | 65.00                                    |             |
| <b>Dental</b> (Rio Salado)  |        | WLD 101 Welding I.....                                  | 75.00                                    |             |
| CDA 110 Infect Control & Hazard Comm.....   | 60.00  | WLD 102 Basic Welding Metal Sculp.....                  | 75.00                                    |             |
| CDA 115 Dental Anatomy and Pathology.....   | 175.00 | WLD 106 ARC Welding.....                                | 75.00                                    |             |
| CDA 120 Clinical Patient Mgmt.....  | 50.00  | WLD 206 Adv Welding Heli & Wire.....                    | 75.00                                    |             |
| CDA 125 Dental Materials.....   | 185.00 | WLD 208 Adv ARC Welding & Cert .....                    | 75.00                                    |             |
| CDA 220 CDA I.....  | 90.00  | <b>Materials Fee</b> (Skill Center).....                | 225.00                                   |             |
| CDA 230 CDA II.....   | 95.00  | <b>Math Software License Fee</b> (Paradise Valley)..... | 75.00                                    |             |
| CDA 240 Dental Radiographic Imaging.....  | 105.00 | <b>Mathematics</b> (Glendale)                           | MAT 092, 122, 151 .....                  | Actual Cost |
| CDA 280 CDA Practicum .....   | 175.00 | <b>Mathematics</b> (Mesa)                               | MAT 082, 092, 122, 151 .....             | 62.00       |
| <b>Dental Hygiene</b> (Rio Salado) all DHE courses.....   | 160.00 | <b>Mechanical Technology</b> (GateWay)                  | MET 102 Machine Processes .....          | 95.00       |
| <b>Dental Hygiene &amp; Dental Assisting</b> (Phoenix)  |        | MET 105 CAD Solid Modeling.....                         | 95.00                                    |             |
| DAE 101 Pre-Clinical Dental Assisting .....   | 35.00  | MET 122 Inspection Techniques.....                      | 95.00                                    |             |
| DAE 102 Pre-Clinical Dental Assisting Lab .....   | 45.00  | MET 203 Machine Tools.....                              | 95.00                                    |             |
| DAE 106 Clinical Dental Assisting.....  | 35.00  | MET 206 Numerical Control.....                          | 95.00                                    |             |
| DAE 107 Clinical Dental Assisting Lab.....  | 35.00  | MET 236 CAD/CAM.....                                    | 95.00                                    |             |
| DAE 131 Oral Radiography Lab .....  | 125.00 | MET 246 Advanced CAD/CAM.....                           | 95.00                                    |             |
| DAE 204 Dental Material Lab .....   | 45.00  | <b>Mortuary Science Program</b> (Mesa)                  | MSP 202 Embalming .....                  | 500.00      |
| DHE 120 Pre-Clinical Dental Hygiene .....   | 300.00 | MSP 207 Restorative Art.....                            | 500.00                                   |             |
| DHE 133 Dental Hygiene Clinic.....  | 325.00 | <b>MSC Welding Fee</b> (Phoenix)                        | WLD 101 Welding I.....                   | 50.00       |
| DHE 213 Dental Hygiene Clinic II.....   | 425.00 | WLD 106 Arc Welding.....                                | 50.00                                    |             |
| DHE 233 Dental Hygiene Clinic III.....  | 300.00 | WLD 201 Welding II.....                                 | 50.00                                    |             |
| DHE NC 500 Instrument Kit.....  | 890.00 | WLD 206 Adv Welding.....                                | 50.00                                    |             |
| <b>Desktop Publishing Class Fee</b> (Scottsdale)  |        | WLD 208 Adv Arc Welding.....                            | 50.00                                    |             |
| not to exceed .....   | 45.00  | <b>Multi-Media</b> (Phoenix)                            | MMT 140 Survey Multi-Media Teaching..... | 50.00       |
| <b>Electronic Music Fee</b> (Scottsdale).....   | 75.00  | MMT 216 Multi-Media Mgt Project .....                   | 75.00                                    |             |
| <b>Electronics</b> (Chandler-Gilbert)   |        | <b>Music</b> (Phoenix)                                  | MTC 191 Electronic Music I .....         | 35.00       |
| ELE 286 Intro to IC Devices.....  | 167.00 | MTC 192 Electronic Music II .....                       | 35.00                                    |             |
| <b>English</b> (GateWay) ENG 071 .....  | 62.00  | MTC 195 Studio Music Recording I.....                   | 35.00                                    |             |
| <b>Equine Science</b> (Scottsdale)  |        | MTC 196 Studio Music Recording II.....                  | 35.00                                    |             |
| EQS 150 Equine Management .....   | 40.00  | <b>Music</b> (Scottsdale)                               | MTC 191 Electronic Music I .....         | 75.00       |
| EQS 160 English Horsemanship I.....   | 40.00  | MTC 192 Electronic Music II .....                       | 75.00                                    |             |
| EQS 165 Western Horsemanship I.....   | 40.00  | MTC 195 Studio Recording I.....                         | 150.00                                   |             |
| EQS 180 English Horsemanship II.....  | 40.00  | MTC 196 Studio Recording II.....                        | 150.00                                   |             |
| EQS 185 Western Horsemanship II.....  | 40.00  |   |  |             |
| EQS 270 Teaching Techniques in Horsemanship.....  | 40.00  |   |  |             |
| EQS 275 Principles of Equine Message.....   | 40.00  |   |  |             |
| <b>Field Trips &amp; Out-of-County/Country Tours</b> ... actual cost<br>(Special assessment directly related to actual cost of trip or tour.) |        |   |  |             |
| <b>Firearms Ammunition Fee</b> (Phoenix)  |        |   |  |             |
| AJS 151, 153 .....  | 40.00  |   |  |             |
| <b>Firearms Training Fee</b> (Scottsdale)   |        |   |  |             |
| AJS 155, 158AA, 158AB.....  | 50.00  |   |  |             |

CONTINUED

FINANCIAL INFORMATION  
Tuition and Fees • Veterans Affairs Office

**Music (Mesa)**

|                                       |        |
|---------------------------------------|--------|
| MTC 195 Studio Recording I            | 175.00 |
| MTC 195AA Studio Recording I          | 175.00 |
| MTC 196 Studio Recording II           | 175.00 |
| MTC 197 Live Sound Reinforcement I    | 75.00  |
| MTC 298 Studio Recording III          | 200.00 |
| MTC 298MA Live Sound Reinforcement II | 75.00  |
| MUP Experimental Protocols            | 75.00  |

**Nursing (Mesa)**

|   |       |
|---|-------|
| NCE 126, 126AA, 126AB Nursing Assisting | 46.00 |
| NUR 108, 109, 208, 209 Nursing Process  | 46.00 |
| NUR 180, 280                            | 30.00 |

**Nursing (Phoenix)**

|              |       |
|--------------|-------|
| NUR 213      | 35.00 |
| NUR 180, 280 | 30.00 |

**Nursing (Glendale, GateWay, Scottsdale)**

|              |       |
|--------------|-------|
| NUR 180, 280 | 30.00 |
|--------------|-------|

**Nursing Student - Fourth Semester (Scottsdale)**.... 30.00

**Nursing Student Test Fee (GateWay)**..... up to 25.00

**Peace Officer Certification (Glendale)**

|  |        |
|--|--------|
| AJS 102 Peace Office Certification I   | 100.00 |
| AJS 202 Peace Officer Certification II | 100.00 |
| AJS 286 AZ Post Notebook & Targets     | 50.00  |

**PED Special Course Fee**..... Actual Cost

**Telecommunications Course Fees (Scottsdale)**

*Note: Fees not to exceed the listed course fees; actual fees might be less.*

|   |        |
|---|--------|
| TCM 100 Digital Multi-Media                     | 100.00 |
| TCM 101 Fundamentals of Radio & TV              | 150.00 |
| TCM 104 Scriptwriting                           | 150.00 |
| TCM 111 Screenwriting I                         | 150.00 |
| TCM 111AA Screenwriting Short Film              | 150.00 |
| TCM 112 Writing for Situation Comedy            | 150.00 |
| TCM 114 Audio for TV                            | 150.00 |
| TCM 120 Intro to Sound Design<br>for Film/Video | 150.00 |
| TCM 131AA Radio/TV Announcing                   | 200.00 |
| TCM 134 Preprod for Motion Pict & TV            | 100.00 |
| TCM 135 Prod for Motion Pict & TV               | 100.00 |
| TCM 136 Post Prod for Motion Pict & TV          | 100.00 |
| TCM 140 Modern Media Concepts                   | 150.00 |
| TCM 145 Motion Picture Production               | 150.00 |
| TCM 151 Broadcast Production                    | 150.00 |
| TCM 180AA TV Prod Techniques                    | 200.00 |
| TCM 211 Screenwriting II                        | 150.00 |
| TCM 213 Motion Picture Workshop                 | 200.00 |
| TCM 213AA Motion Pict Wksp On Loc               | 200.00 |
| TCM 214 TV Workshop                             | 150.00 |
| TCM 215 Photography for Motion Picture          | 150.00 |
| TCM 216 Screenwriting III                       | 150.00 |
| TCM 218 Screenwriting TV                        | 150.00 |
| TCM 235 Producing News                          | 150.00 |
| TCM 241 Non-linear Editing                      | 380.00 |
| TCM 241AA Advanced Media Composing              | 380.00 |
| TCM 242 Portfolio Non-linear Editing            | 100.00 |
| TCM 243 Intro Video Comp/Title Anim             | 200.00 |

|   |        |
|---|--------|
| TCM 245 Adv Motion Picture Production                     | 150.00 |
| TCM 246 New Media Production                              | 150.00 |
| TCM 251 Advanced Studio Production                        | 150.00 |
| TCM 260 Film & Video Prod & Financing                     | 150.00 |
| TCM 271 Advanced Non-linear<br>Effects and Composing AVID | 380.00 |
| TCM 280 Motion Picture Post Production                    | 150.00 |
| TCM 298AA Special Projects                                | 150.00 |
| TCM 298AB Special Projects                                | 100.00 |
| TCM 298AC Special Projects                                | 150.00 |

**Speedy Spanish (Phoenix)**

|                    |        |
|--------------------|--------|
| SPA 085 AA, AB, AC | 100.00 |
|--------------------|--------|

**Virtual Reality Training**

|                        |        |
|------------------------|--------|
| (Chandler-Gilbert) VRT | 100.00 |
|------------------------|--------|

**Windsurfing (Paradise Valley)**..... 35.00

*Students may incur expenses beyond the established fees in certain courses.*

**Non-Credit Courses / Seminars / Workshops / Community Services**

Fees for these courses are determined by the length and type of each course and will cover total costs.

## Veterans Affairs Office

The Veterans Affairs Office (VAO) is located at the Rio Salado Administrative Office at 2323 W. 14th St., Tempe, Arizona 85281-6950. The VAO is available to assist with Veterans Administration (VA) educational benefits forms.

All students applying for or receiving VA educational benefits are encouraged to contact the VAO before enrolling and at least once each semester to make sure their paperwork is correct.

**Veterans must** apply for benefits by completing the Veterans Request for Benefits form and submit it to the VAO. This form must be completed each time the VA student enrolls for classes. **Deferments** are temporary and the student is responsible for paying his/her tuition and fees on the date specified by the college. Deferments must be approved by the VA coordinator.

**Drop/Add:** Every veteran is responsible for notifying the VAO of any change in his/her schedule throughout the semester.

If the VA student is currently enrolled in another institution, he/she must notify the Veterans Office at both colleges, so that the VA Regional Office can be properly advised. For more information, please call **480-517-8153**.



# Distance Learning/ Accelerated Courses

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## Stay at Home & Go Places

*Earn a Degree through Rio Salado  
Distance Learning Classes.*

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### IN THIS SECTION

#### Distance Learning/Accelerated Courses

- Let the College Come to You
- Technology Makes It Possible for You to Take High Quality College Courses
- Rio Computer Labs are Located at:
- Here's How It Works...
- Choose a Delivery Format that Meets Your Needs
- Flex Start Courses
- You Have the Whole College Supporting You

#### Education Programs

- Online Post-Baccalaureate Teacher Preparation Program
- Elementary Education
- Secondary Education
- Special Education
- Professional Development Program for K-12 Teachers

#### Instructional Computing:

- Serving the General Public
- Open Entry/Open Exit
- Computer Labs
- Corporate and Business Computer Courses
- Computing Resources

#### Languages

- Accelerated Classes
- Distance Classes

#### P.A.S.S. Program

## Distance Learning / Accelerated Courses

### Let the College Come to You!

Your time is an important resource. If you don't have the time to drive to a college campus to take courses, or if you have work or family responsibilities that interfere with your ability to attend classes, Rio Salado College offers you the convenience of Distance Learning courses. With Rio Salado's Distance Learning classes, college comes to you!

### Technology Makes It Possible for You to Take High Quality College Courses

You can take 281 different courses all delivered to you with the help of technology, such as your computer (Internet or Open Entry/Open Exit), VCR, tape player, CD-ROM or telephone. It's simple. You choose your own study time and submit assignments by mail, fax or computer. Your instructor is available by phone, fax and/or e-mail to help guide your learning.

✓ <http://www.rio.maricopa.edu>

*Stay at Home  
& Go Places! Earn a  
Degree through Rio Salado  
Distance Learning  
Classes.*

### Here's How It Works...

Enroll for your distance classes well in advance so you have your books/materials and are ready to begin assignments on your starting date. Registration for flexible start classes must be completed by the Saturday before your scheduled start date.

Once you have enrolled and paid for your courses:

1. A letter with a calendar of important dates is mailed to you at the beginning of the semester. Internet students will access this information on the Web.
2. You purchase the required books and study guides at the Rio Salado College Bookstore. To purchase your books in person or by phone, call 480-517-8355. To purchase your books online, go to ✓ <http://www.riosalado.bkstr.com>. You may print your course materials packet from the web or at a local Kinko's. For more information, call 480-517-8244. Once you have your textbooks and materials, you may begin your coursework as outlined in your course materials packet.
3. If you are enrolled in courses requiring audio or video-cassettes, tapes will be mailed to you automatically once all tuition and fees have been paid.
4. Some science classes may have an orientation meeting at the start of the semester or in-person meetings later in the course.
5. You may call your Rio Salado instructor using Voice Messaging 24-hours-a-day. Internet students may also connect with their instructor online.
6. You can mail, fax or e-mail required assignments. Due dates for assignments are noted on the course calendar. Your instructor will review the assignments and provide feedback on your progress.
7. You make an appointment to take your midterms and finals at an approved testing site.

A Distance Learning Orientation video is available to give you more information about the program and/or helpful hints on how to be a successful distance student. Contact Rio Salado's Library/Media Department at 480-517-8424 for your free copy, or call 480-517-8540 for more information.

### Rio Computer Labs are Located at:

Rio East Valley 480-517-8055  
1455 South Stapley Dr., Suite 15, Mesa  
*(just north of the Superstition Freeway)*

Rio West Valley 480-517-8785  
56th Support Center, 7383 N. Litchfield Rd., Glendale  
*(two blocks North of Glendale Avenue, across from LAFB)*

Rio Paradise Valley Mall 480-517-8765  
4550 East Cactus Rd., Phoenix  
*(above the food court)*

Rio Sun Cities Lifelong Learning Center  
12535 Smokey Dr., Surprise 480-517-8775  
*(just South of Bell Road)*

Rio Tempe 480-517-8455  
2323 West 14th St., Tempe  
*(third floor)*

Open Entry/Open Exit Helpdesk 480-517-8450

Visit our web site at ✓ <http://www.rio.maricopa.edu>.

## Distance Learning/Accelerated Courses

## Choose a Delivery Format that Meets Your Needs

Internet students access their courses through their own Internet connection and browser. They may use Windows based PC or Macintosh. The minimum requirements are 16 Megs of RAM and a 28.8 modem or better, plus a Pentium 75 CPU or Power PC CPU.

Mixed Media classes combine delivery technologies which may include conference calling, audio and videocassettes, print materials and/or laboratory kits.

Print-Based classes rely on textbooks, study guides, course packets, and supplemental readings.

Open Entry/Open Exit computer courses can be taken at home, in the office, and/or at one of Rio's computer labs. Students must provide their own software if working from home or office.

*Note: Rio Salado computer labs are available for educational purposes only.*

## Flex Start Courses

With Rio Salado's flex start schedule, you have the opportunity to enroll in and begin a course at multiple times throughout the year. **Registration for flexible start classes must be completed by the Saturday before your scheduled start date.** In most cases, you have 13 weeks to complete the course. You may work ahead and complete the course in less time with instructor approval. A course calendar provides the specific dates for submitting assignments and taking exams. As with all distance learning classes, in person testing is required for the midterm and final exams (for non-local students, the college will work with a proctor for the in-person testing).

## You Have the Whole College Supporting You!

Rio Salado College Student Services is here to help you. Distance learning students have access to the following services in-person, via telephone or online.

### Academic Advising:

For help with individual learning plans, course selections, prerequisites, transfer credits, and more, call 480-517-8540. Or check out our online services at:

✓ <http://www.rio.maricopa.edu/services/student/>

### Bookstore:

Order your books online, by telephone or purchase your materials in-person. Call 480-517-8355 or visit the web site at:

✓ <http://riosalado.bkstr.com>

### Counseling:

Assistance is available in the areas of career guidance, time management, test anxiety, study skills or personal problems interfering with your academic progress. For an appointment at Rio Tempe, call 480-517-8540 or at Rio Paradise Valley, call 480-517-8760 or visit the web site.

### E-Learning Profile (ELP):

ELP is available online to assess your current learning strategies and give you guidance on how to be a successful learner.

### Electronic Virtual Library:

The Internet-based library has several online tutorials, a reference center and specific links to support class research. To obtain a library card, call 480-517-8424 or visit the web site.

### Financial Aid:

Grants, work study and scholarships are available to assist eligible students with college expenses. Call 480-517-8310 or visit the web site.

### Help Desk:

For help with technical/Internet questions, call 480-517-8600 or visit the web site.

### Orientation:

A distance learning orientation video is available to give you more information about the program and helpful hints on how to be a successful distance student. Contact Library/Media at 480-517-8424 for your free copy.

### Successful Start Workshop:

First time Internet students may attend a free "Successful Start" workshop held at Rio Tempe from 6:00 p.m. - 7:30 p.m. on the Tuesday evening prior to each flex start date. Learn how to access your class, to use email to communicate with your instructor, and to be a prepared Internet student. Call 480-517-8288 to reserve your seat, or 480-517-8381 for further information.

### Tutoring:

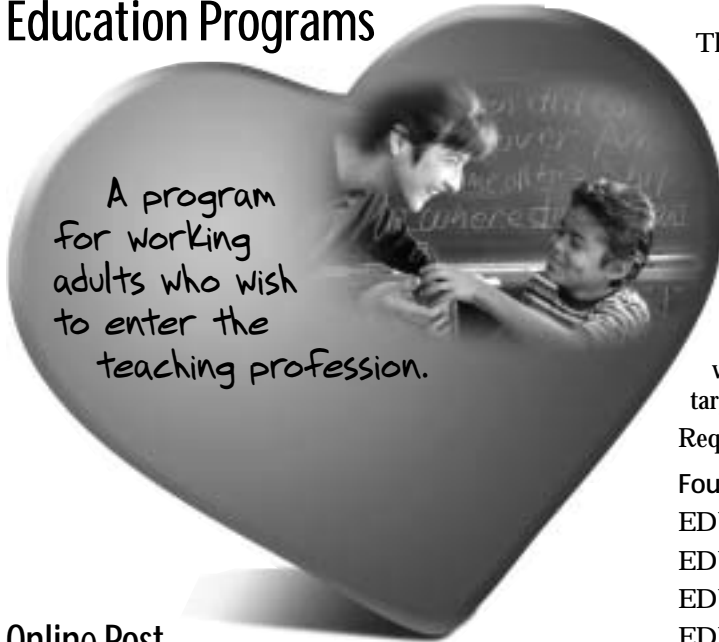
Beep-A-Tutor is available seven-days-a-week for Math and Spanish classes. Cyber tutoring for Math, Writing, Spanish, and Chemistry are available online. Group or individual sessions by telephone or at convenient locations are available for a variety of subjects. Call 480-517-8577 or 480-517-8540 or visit the web site.

### Visit our web site at:

✓ <http://www.rio.maricopa.edu>

Education Programs

# Education Programs



## Online Post Baccalaureate Teacher Preparation Program

Rio Salado College has developed an Online Teacher Preparation Program that is approved by the Arizona State Board of Education. The program is designed for working adults who have already received their undergraduate degree and wish to enter the teaching profession.

Coursework is based on Arizona state standards and includes practical experience in the classroom. Students learn essential skills needed to become highly effective teachers. Features of the program include:

- Courses designed “For Teachers, By Teachers”
- Internet format delivery
- 14-week courses, start every 2 weeks
- Courses can be accelerated
- 1-on-1 guidance from your instructor
- 7-days-a-week Student Support and Technology Helpdesk
- Bi-Monthly meetings with Master Teachers
- Cost-effective community college tuition

This program leads to an Elementary, Secondary or Special Education certification. Courses in each certification area are divided into two blocks: a Foundational Knowledge Block and a Professional Knowledge Block.

Students must complete all of the courses in the Foundational Knowledge Block before enrolling in courses in the Professional Knowledge Block.

### ■ Elementary Education

The Elementary program is designed for individuals with a bachelor's degree who wish to become Elementary Teachers working with children from grades K-8.

Required Courses 45 credits

#### Foundational Knowledge Block

|  |   |
|--|---|
| EDU285 Education Seminar                       | 4 |
| EDU222 Introduction to the Exceptional Learner | 3 |
| EDU225 Foundations of ESL/Bilingual Education  | 3 |
| EDU270 Learning and the Brain                  | 3 |
| EDU272 Educational Psychology                  | 3 |
| EDU276 Classroom Management                    | 3 |

#### Professional Knowledge Block

|  |   |
|--|---|
| EDU240 Methods for Teaching the ESL Student              | 3 |
| EDU270AA Elementary Reading & Decoding                   | 3 |
| EDU275 Diagnosis and Remediation of Reading for K-12     | 3 |
| EDU290 Science Methods and Curriculum Development        | 3 |
| EDU293 Math Methods and Curriculum Development           | 3 |
| EDU295 Social Studies Methods and Curriculum Development | 3 |
| EDU299 Student Teaching Lab                              | 8 |

## Coming Soon!

- “Pathway” to a Bachelor’s Degree in Elementary Education
- “Pathway” to a Master’s Degree in Education

Visit our web page at  
 ✓ [www.rio.maricopa.edu/education](http://www.rio.maricopa.edu/education)  
 regularly for updates.



### Education Programs

#### ■ Secondary Education

The Secondary program is designed for individuals with a bachelor's degree who wish to become Secondary Teachers working with students from grades 7-12.

Required Courses 33 credits

##### Foundational Knowledge Block

|   |   |
|---|---|
| EDU285 Education Seminar                      | 4 |
| EDU270 Learning and the Brain                 | 3 |
| EDU272 Educational Psychology                 | 3 |
| EDU225 Foundations of ESL/Bilingual Education | 3 |
| EDU276 Classroom Management                   | 3 |

##### Professional Knowledge Block

|   |   |
|---|---|
| EDU240 Methods of Teaching the ESL Student                | 3 |
| EDU274 Understanding Adolescent Behavior in the Classroom | 3 |
| EDU289 Secondary Methods and Curriculum Development       | 3 |
| EDU299 Student Teaching Lab                               | 8 |

##### Teaching Content Area

To become an Arizona certified secondary teacher you must pass a teacher exam in a specific content area (Math, Science, English, Foreign Languages, etc.). Although the Arizona Department of Education only requires the passing of an exam to become certified, some districts require that a secondary teacher have 24 credits in a teaching content area commonly taught in Arizona schools (7-12th grade).

#### ■ Special Education

The Special Education program is designed for individuals who wish to become Special Education teachers working in a cross-categorical classroom in grades K-12. Cross-categorical Special Education includes students with Emotional Disabilities, Learning Disabilities, Mental Challenges, and/or Physical and Health Impairments.

Required Courses 45 credits

##### Foundational Knowledge Block

|                                   |   |
|-----------------------------------|---|
| EDU270 Learning and the Brain (3) | 3 |
| <i>OR</i>                         |   |

|                                   |   |
|-----------------------------------|---|
| EDU272 Educational Psychology (3) | 3 |
| EDU276 Classroom Management       | 3 |

##### Professional Knowledge Block

|   |   |
|---|---|
| EDU222 Introduction to the Exceptional Learner                  | 3 |
| EDU223AA Emotional Disabilities in the Classroom                | 3 |
| EDU223AB Learning Disabilities in the Classroom                 | 3 |
| EDU223AC Mild/Moderate Mental Retardation in the Classroom      | 3 |
| EDU223AD Physical and Other Health Impairments in the Classroom | 3 |
| EDU223AE Methods in Special Education                           | 3 |
| EDU223AF Assessment in Special Education                        | 3 |
| EDU270AA Elementary Reading & Decoding                          | 3 |
| EDU275 Diagnosis and Remediation of Reading for K-12            | 3 |
| EDU293 Math Methods/Curriculum Development                      | 3 |
| EDU299 Student Teaching Lab                                     | 8 |

For more information about the Online Post Baccalaureate Teacher Preparation Program, call 480-517-8540 or send an email to [teacher.prep@riomail.maricopa.edu](mailto:teacher.prep@riomail.maricopa.edu).

## Professional Development Program for K-12 Teachers

Rio Salado College, renowned for innovations in teaching and learning, is now offering unique courses for K-12 classroom teachers through the Education Professional Development Program.

These cost-effective courses, which are offered in an Internet format, are accepted by the Arizona Department of Education and lead to approved endorsements in the following areas:

- Computer Science
- English-as-a-Second Language/Bilingual
- Math Specialist
- Reading
- Middle School

Most school districts also accept these courses for salary increases. A bonus is that these classes begin every two weeks for easy scheduling. They may be completed in 14 weeks or in as few as six weeks with instructor approval.

In addition, if you hold a degree from another state and would like to become certified in Arizona, Rio Salado College has courses that can help you meet the Arizona Standard Elementary and Secondary certification requirements.

For more information on the Education Professional Development Program, contact Rio Salado academic advisors at 480-517-8540 or visit our web site at:

✓ [www.rio.maricopa.edu/education](http://www.rio.maricopa.edu/education)

Instructional Computing

# Instructional Computing

## Serving the General Public

With Rio Salado, updating your computer skills is flexible, convenient and fun.

- The Rio Salado Computer Labs located valley-wide provide open entry/open exit classes.
- Rio Salado computer classes can be taken from your home, office or at one of five computer labs.
- Computer Help Desk for student questions and inquiries call 480-517-8600.
- Computer Technology certificate and degree programs available:

- Business Office Technology
- Computer Technology
- Desktop Publishing
- e-Commerce/Website Management
- Networking
- Programming
- Project Management/Website Management
- Technology Helpdesk Support
- Technology Troubleshooting and A+ Preparation
- Web Master

## Open Entry/Open Exit

Open Entry/Open Exit computer classes are designed to provide a flexible environment for students to work at their own pace on their class assignments. Students work at one of the Rio Salado computer labs or at home or office if they have the appropriate hardware and software. Each lab is staffed with computer instructors and lab assistants who are there to help with questions and provide support.



## Computer Labs

**Rio West Valley**  
 56th Support Center  
 7383 North Litchfield Rd.  
 Glendale, AZ 85309  
 480-517-8785

**Rio East Valley**  
 1455 South Stapley Dr., Suite 15,  
 Mesa, AZ 85204  
 480-517-8055

**Rio Paradise Valley Mall**  
 4550 East Cactus Rd.  
 Mezzanine Level  
 Phoenix, AZ 85032  
 480-517-8765

**Rio Sun Cities Lifelong Learning Center**  
 12535 Smokey Dr.,  
 Surprise, AZ 85374  
 480-517-8775

**Rio Tempe**  
 2323 West 14th St., 3rd Floor  
 Tempe, AZ 85281-6950  
 480-517-8455

## Computing Resources

- Valley-wide accessibility
- Computer Help Desk for student questions
- Over 100 personal computers available throughout the Valley
- Internet Access



## Languages

Rio Salado College has made it easier than ever to learn a language at a convenient time or place that fits your busy schedule. Whether you want to learn a second language for a degree requirement, for the workplace, for travel or for personal development, you can choose the format that works best for you.

### Accelerated Classes

By meeting one night per week and completing other multimedia activities on your own, you can take a Spanish class in just 12 weeks! Our small, in-person classes offer you the personal attention to understand and speak Spanish. Es verdad! - Really!

### Distance Classes

You can take a language class on the Internet or through Mixed Media with video, audio cassettes, and conference calls on your telephone.



Your instructor is just a click away, and our nationally recognized Beep-A-Tutor service is available for help seven-days-a-week. Distance Learning language classes emphasize reading, writing, grammar, listening and speaking skills, and are excellent for the student working on a degree. German and Spanish are available through the Internet. French and Spanish are available in the Mixed Media format. Spanish classes start every month!

For general information, placement assistance or departmental approval, call the Language Hotline at 480-517-8255.

For specific times and locations, look under your language of choice in the Classes by Subject section of the current Rio Salado Class Schedule.

For more information, call 480-517-8540 or visit our web site at:

✓ <http://rio.maricopa.edu/languages>

## P.A.S.S. Program

Rio Salado College offers a convenient and exciting accelerated degree program called P.A.S.S. - Pathways for Adult Student Success. It is designed for busy adults and enables students to earn an Associate in Arts/General Requirements degree by attending class just one night a week. Six or twelve-week accelerated courses combine the benefits of traditional classroom interaction with the convenience of independent study. To find the class offerings, look in the "Accelerated Classes" section of the Rio Salado College Schedule, or contact an academic advisor at 480-517-8540 to map out your plan for success.



# Transfer Programs

Transfer Programs Promise  
a Smooth Transition  
from Rio to any Arizona  
Public University!

## Key to General Education Codes

All General Education courses are coded with the following symbols to indicate how each course transfers. For more detailed information about course applicability and degree requirements, call a Rio Salado advisor at 480-517-8540.

- C Cultural Diversity in the United States Courses
- FL Non-English Language Requirement
- FYC First Year Composition
- G Global Awareness Courses
- H Historical Awareness Courses
- HU Humanities and Fine Arts
- L Literacy and Critical Inquiry
- MA Mathematics Courses
- CS CS (computer/statistics/quantitative applications) Courses
- SB Social and Behavioral Sciences
- SQ Natural Sciences Quantitative
- SG Natural Sciences General

## Transfer Blocks Arizona General Education Curriculum (AGEC)

The AGEC is a 35 credit hour block of lower-division general education courses for Arizona community college students who intend to transfer to an Arizona public university to earn a four-year degree.

The AGEC will transfer as a block to any Arizona public university without loss of credit and will fulfill all lower-division general education requirements for the majors with which they articulate.

There are three types of AGEC blocks to choose from:

- AGEC A, for liberal arts and other majors;
- AGEC B, for business majors; and
- AGEC S, for majors with more stringent mathematics and mathematics-based science requirements.



## Transfer Degrees

In addition we have three new 60-64 credit transfer degrees that will transfer as a block without loss of credit toward graduation in the baccalaureate majors with which they articulate.

These include:

- The Associate of Arts (AA), for liberal arts and other majors;
- The Associate of Business (ABus), for business majors; and
- The Associate of Science (AS), for majors with more stringent mathematics and mathematics-based science requirements.



# Certificates and Degrees

## IN THIS SECTION

Certificate and Degree Programs

Educational Partnership Programs

Catalog Under Which a Student Graduates

- University Department Time Limit for Coursework
- General Graduation Requirements
- Certificates/Degrees
- Definition of General Studies

Associate in Arts (AA) Degree, General Requirements (GR)

Associate in Arts (AA) Degree, Special Requirements (SR)

Associate in Business (ABus) Degree, General Requirements (GR)

Associate in Business (ABus) Degree, Special Requirements (SR)

Associate in Science (AS) Degree, General Requirements (GR)

Associate in Science (AS) Degree, Special Requirements (SR)

Arizona General Education Curriculum (AGEC), AGEC A, AGEC B, AGEC S

Courses That Can Be Used to Satisfy MCCC CD AGEC A, AGEC B and/or AGEC S

Associate in Transfer Partnership (ATP) Degree

Associate in General Studies (AGS) Degree

Associate in Applied Science (AAS) Degree, General Studies Requirements

Chemical Dependency

Computer Technology

Dental Assisting

Dental Hygiene

Organizational Leadership

Programming and System Analysis

Public Administration

Quality Customer Service

Water/Wastewater Technology

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## Certificate and Degree Programs

### Associate in Arts (AA) Degrees

AA GR: Associate in Arts Degree, General Requirements  
AA SR: Associate in Arts Degree, Special Requirements  
AGEC A: Arizona General Education Curriculum

### Associate in Business (ABus) Degrees

ABus GR: Associate in Business, General Requirements  
ABus SR: Associate in Business, Special Requirements  
AGEC B: Arizona General Education Curriculum

### Associate in Science (AS) Degrees

AS GR: Associate in Science, General Requirements  
AS SR: Associate in Science, Special Requirements  
AGEC S: Arizona General Education Curriculum

### ATP: Associate in Transfer Partnership Degree

### Associate in General Studies (AGS) Degree

### Associate in Applied Science (AAS) Degrees

Chemical Dependency  
Computer Technology  
Dental Hygiene  
Organizational Leadership  
Programming and System Analysis  
Public Administration  
Quality Customer Service  
Water/Wastewater Technology

### Certificates of Completion

Business Office Technology  
Chemical Dependency Level I  
Chemical Dependency Level II  
Computer Technology  
Dental Assisting (AzDA Clinical)  
Desktop Publishing  
e-Commerce/Website Management  
Networking  
Organizational Leadership  
Programming  
Programming and System Analysis  
Project Management/Website Management  
Public Administration  
Quality Customer Service  
Quality Process Leadership  
Technology Helpdesk Support  
Technology Troubleshooting and A+ Preparation  
Water Distribution and Collection  
Wastewater Treatment  
Water Treatment  
Web Master



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## Educational Partnership Programs

*(limited to business, industry and governmental agencies)*

### Associate in Applied Science (AAS) Degrees

Airline Operations

Computer Technology

Corrections

Detention Services

Fire Science

Law Enforcement Technology

Quality Customer Service



### Certificates of Completion

Advanced Corrections

Advanced Systems Engineer

Airline Operations

Basic Corrections

Basic Systems Engineer

Credit Card: Customer Service

Database Administration

Detention Services

Fire Science

Human Services - Assistance: Customer Service

Human Services - Eligibility: Customer Service

Human Services - Specialist: Customer Service

Law Enforcement Technology

Law Enforcement Field Training

Public Safety Technology

Quality Customer Service

Telecommunications: Customer Service

Travel Agency: Customer Service

Utilities: Customer Service

## Catalog Under Which a Student Graduates

Students maintaining continuous enrollment at any public Arizona community college or university may graduate according to the requirements of the catalog in effect at the time of initial enrollment or according to the requirements of any single catalog in effect during subsequent terms of continuous enrollment. Students may maintain continuous enrollment whether attending a single public community college or university in Arizona or transferring among public institutions in Arizona while pursuing their degrees.

**1)** A semester in which a student earns course credit will be counted toward continuous enrollment. Non-credit courses, audited courses, failed courses, or courses from which the student withdraws do not count toward the determination of continuous enrollment for catalog purposes.

**Example A:**  
 Admitted & Earned Course Credit at a Public Community College or University

|   |         |                                |
|---|---------|--------------------------------|
|   | F93     | (Active)                       |
| Continued at a Public Community College | 94, F94 | Active)                        |
| Transferred to a University             | S95     | (93 or Any Subsequent Catalog) |

**Example B:**  
 Admitted & Earned Course Credit at a Public Community College or University

|                                       |     |                                |
|---------------------------------------|-----|--------------------------------|
|                                       | F92 | (Active)                       |
| Enrolled But Earned All Ws, Zs, or Fs | S93 | (Inactive)                     |
| Enrolled in Audit Courses Only        | F93 | (Inactive)                     |
| Nonattendance                         | S94 | (Inactive)                     |
| Transferred to a University           | F94 | (94 or Any Subsequent Catalog) |

**2)** Students who do not meet the minimum enrollment standard stipulated in No. 1 during three consecutive semesters (fall/spring) and the intervening summer term\* at any public Arizona community college or university are no longer considered continuously enrolled, and must meet requirements of the public Arizona community college or university catalog in effect at the time they are readmitted or of any single catalog in effect during subsequent terms of continuous enrollment after readmission.

**Example A:**  
 Admitted & Earned Course Credit at a Public Community College or University

|   |               |                                |
|---|---------------|--------------------------------|
|   | F92           | (Active)                       |
| Nonattendance   | S93, F93, S94 | (Inactive)                     |
| Readmitted & Earned Course Credit at a Public Community College | 94            | (Active)                       |
| Transferred to a University                                     | S95           | (94 or Any Subsequent Catalog) |

**Example B:**  
 Admitted & Earned Course Credit at a Public Community College or University

|   |          |                                |
|---|----------|--------------------------------|
|   | 92       | (Active)                       |
| Nonattendance   | S93      | (Inactive)                     |
| Readmitted & Earned Course Credit at a Public Community College | Su93     | (Active)                       |
| Nonattendance   | F93, S94 | (Inactive)                     |
| Transferred to a University                                     | F94      | (92 or Any Subsequent Catalog) |

*\*Students are not obligated to enroll and earn course credit during summer terms, but summer enrollment may be used to maintain continuous enrollment status.*

**3)** Students admitted or readmitted to a public Arizona community college or university during a summer term must follow the requirements of the catalog in effect the following fall semester or of any single catalog in effect during subsequent terms of continuous enrollment.

**Example:**  
 Admitted & Earned Course Credit at a Public Community College or University

|   |          |                                |
|---|----------|--------------------------------|
|   | Su94     | (Active)                       |
| Continued at a Public Community College                         | F94, S95 | (Active)                       |
| Nonattendance   | F95      | (Inactive)                     |
| Readmitted & Earned Course Credit at a Public Community College | S96      | (Active)                       |
| Transferred to a University                                     | Su96     | (94 or Any Subsequent Catalog) |

**4)** Students transferring among Arizona public higher education institutions must meet the admission requirements, residency requirements, and all curricular and academic requirements of the degree-granting institution.

Catalog Under Which a Student Graduates

**University Department Time Limit for Coursework**

In areas of study in which the subject matter changes rapidly, material in courses taken long before graduation may become obsolete or irrelevant. Coursework that is more than eight years old is applicable to completion of degree requirements at the discretion of the student's major department. Departments may accept such coursework, reject it, or request that the student revalidate its substance. The eight-year limit on coursework applies except when program accreditation agencies limit the life of coursework to less than eight years. Departments may also require students to satisfy current major requirements rather than major requirements in earlier catalogs, when completing earlier requirements is no longer possible or educationally sound.

The college reserves the right to make necessary course and program changes in order to meet current educational standards.

**General Graduation Requirements**

All students receiving a degree or certificate under this catalog must:

1. be credited in the Office of Admissions and Records with not fewer than: 60 semester credit units in courses numbered 100 or above for the Associate in Arts degree, Associate in Science degree, Associate in Transfer Partnership degree, and Associate in General Studies degree; 64 semester credit units for the Associate in Applied Science degree; 62 semester credits for the Associate in Business degrees; for specific certificate programs, be credited with not fewer than the minimum total of credit units required for the certificate program.  
  
Students not continuously enrolled must satisfy current graduation requirements.
2. have earned a minimum of 12 semester credit units toward the degree or certificate at the district college granting the degree or certificate, except in cases where the certificate requires fewer than 12 credit units.
3. have filed an application for the degree or certificate with the Office of Admissions and Records on the date determined by the college/center.
4. have a minimum cumulative grade point average of 2.000 at the college granting the degree.
5. have a minimum cumulative grade point average of 2.000 in all courses used to fulfill degree requirements

Some specific programs have higher grade requirements. It is the student's responsibility to be aware of these program requirements.

6. have removed, thirty (30) days after the anticipated graduation date, all deficiencies on the record to use those courses toward program completion.
7. have removed any indebtedness to any MCCCDC college /center.
8. have paid required degree or certificate application fee.

See fee schedule on pages 39-42 for charges.

**Certificates/Degrees**

The Maricopa Community Colleges offer Certificates of Completion as well as Associate Degrees, one of which is conferred on each student who has completed a program of study. These certificates and degrees are as follows: (1) Certificate of Completion (Career Program Specified); (2) Academic Certificate; (3) Associate in Arts; (4) Associate in Science; (5) Associate in Business; (6) Associate in General Studies; (7) Associate in Transfer Partnership; and (8) Associate in Applied Science (Career Program Specified).

All candidates for a degree must complete the General Graduation Requirements outlined in this catalog.

All students are urged to meet with a faculty advisor, program advisor or counselor as soon as possible to determine which program meets their needs and to plan their course of study.

**Definition of General Studies**

The Maricopa Community Colleges are committed to the belief that all their graduates should possess the skills and breadth of knowledge necessary to live full and productive lives.

General Studies is that part of a student's associate degree program which provides for the acquisition of the skills and knowledge every literate citizen possesses.

General Studies enhances a student's major area of concentration.

**General Education Designations**

(example: (FYC), [SB], [HU], etc.)

Effective Fall 2000 the course evaluation and/or general education designation as listed in the CEG/AZCAS (Course Equivalency Guide/Arizona Course Applicability System) is valid for the **term** in which a student is awarded credit on the transcript. A course evaluation and/or general education designation may be subject to change. Given that curriculum is dynamic at the Maricopa Community Colleges and the institutions to which Maricopa Community College students transfer, students have the option to petition for equivalencies and/or general education designations.

The college reserves the right to make necessary course and program changes in order to meet current educational standards.

## Associate in Arts (AA) Degree, General Requirements (GR)

The Maricopa County Community College District Associate in Arts General Requirements (AA GR) is a degree requiring a total of 60-64 semester credits for the program of study. The degree has three major components: 1) General Studies which includes the Arizona General Education Curriculum A (AGEC A), and MCCCDC Additional Requirements, 2) Non-English Language Requirements, 3) General Electives.

The degree is designed for students who plan to transfer to Arizona's public universities into majors that articulate with the Associate in Arts General Requirements pathway. The AA GR is designed for students who may or may not know their major or university. Additional information on academic majors can be accessed via the following web site:

✓ [http://www.abor.asu.edu/4\\_special\\_programs/atass/index.html](http://www.abor.asu.edu/4_special_programs/atass/index.html)

Click on:

- Student Information
- Degrees and Pathways
- Maricopa County Community College District

The degree transfers as a block without loss of credit to Arizona's public universities. All semester credits used to satisfy the MCCCDC Associate in Arts General Requirements will apply to university graduation requirements of the university major for which the AA GR was designed, regardless of whether the credit was awarded for completion of course work or for prior learning. For additional information on credit awarded for prior learning assessment, see the policy on Credit for Prior Learning on page 19.

### The MCCCDC Associate in Arts General Requirements:

- requires 60-64 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- uses the following policies to help students complete the required Core and Awareness Areas in AGECA without exceeding the 35 semester credits;
  1. Courses can satisfy a Core Area and one or two Awareness Areas simultaneously.
  2. A course cannot be used to satisfy more than one Core Area requirement.
- uses the following policy to help students complete the program requirements at a minimum of 60 semester credits but not more than 64 semester credits;

Courses can satisfy multiple areas within the degree simultaneously (AGECA Core Area, AGECA Awareness Area, MCCCDC Additional Requirements, Non-English Language Requirements).

- follows the general studies policy below, General Education Designations (example: (FYC), [SB], [HU], etc.)

Effective Fall 2000 the course evaluation and/or general education designation as listed in the CEG/AZCAS (Course Equivalency Guide/Arizona Course Applicability System) is valid for the **term** in which the student is

awarded credit on the transcript. A course evaluation and/or a general education designation may be subject to change. Given that curriculum is dynamic at both MCCCDC and the institutions to which MCCCDC students transfer, students have the option to petition for course evaluations and/or general education designations.

- requires courses that transfer as equivalent courses, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within the Course Applicability System (CAS). The course evaluation and/or general education designation as listed in CAS is valid for the term in which the student is awarded credit on the transcript;
- follows the graduation policies within the general catalog;
- includes both courses and their modular equivalents, either the course or the modular equivalents will satisfy the Associate in Arts General Requirements;
- accepts one of the courses that is cross-referenced with other courses;
- provides for exemption from Arizona university admission requirements for students who complete the Associate in Arts degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

The 60-64 semester credits required for the Associate in Arts General Requirements follow. See the list entitled "MCCCDC Courses That Can Be Used to Satisfy MCCCDC AGECA, AGECA B and/or AGECA S" for specific course information via the following website:

✓ <http://www.dist.maricopa.edu/eddev/curricl> • Click on Program Information, scroll down to Academic Program Transfer Information. Click on AGECA Course Matrix 2001.

The list identifies the courses in alpha-order by prefix as well as the different Core Areas and Awareness Areas where the course will apply. For purposes of clarifying requirements in the Mathematics and Natural Sciences areas on the list and on the AGECA requirements, an A, B, and/or S character may follow the [MA], [SQ], [SG] general education designations and refers to a specific AGECA.

### I. MCCCDC GENERAL STUDIES Credits

The MCCCDC General Studies includes two areas, MCCCDC AGECA A and MCCCDC Additional Requirements.

#### A. MCCCDC AGECA A

- |  |           |
|--|-----------|
| <b>1. Core Areas:</b>  | <b>35</b> |
| a. First-Year Composition (FYC)  | 6         |
| b. Literacy and Critical Inquiry [L]   | 3         |
| c. Mathematical Studies [MA/CS]  | 6         |
| To complete the Mathematical Studies requirement select one course to satisfy the Mathematics [MA] A and a second course from either Computer/Statistics/Quantitative Applications [CS]. |           |



Associate in Arts (AA) Degree, General Requirements (GR)

- 1) Mathematics [MA] A (3 credits)  
Select a course in college mathematics or college algebra or pre-calculus or any other mathematics course for which college algebra is a prerequisite.  
**AND**
- 2) Computer/Statistics/Quantitative Applications [CS] (3 credits)
- d. Humanities and Fine Arts [HU] 6  
Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix. There is one exception. HUM250 and HUM251 will satisfy the Humanities and Fine Arts area requirement.
- e. Social and Behavioral Sciences [SB] 6  
Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix.
- f. Natural Sciences [SQ/SG] 8  
To complete the Natural Sciences requirement:  
Select four (4) semester credits of [SQ] and four (4) semester credits of [SG] for a total of eight (8) semester credits, **OR** eight (8) semester credits of [SQ]. Students **cannot** take eight (8) semester credits of [SG] to meet the Natural Sciences requirement.  
The courses selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. When the lecture and corresponding laboratory receive separate credit, both will be counted as equivalent to **one** course in that prefix.

**2. Awareness Areas:**

Students must satisfy two Awareness Areas: Cultural Diversity in the United States [C] and either Global Awareness [G] or Historical Awareness [H]. However, it is not necessary for students to exceed thirty-five semester credits to complete the Awareness Areas because courses can satisfy a Core Area and one or two Awareness Areas simultaneously. Therefore no additional semester credits are required to satisfy the two Awareness Areas.

Cultural Diversity in the United States [C]

**AND**

Global Awareness [G]

**OR**

Historical Awareness [H]

**B. MCCC Additional Requirements 0-6**

Students must satisfy Oral Communication and Critical Reading areas for a total of six (6) semester credits. However, it is not necessary for students to exceed the thirty-five semester credits required in order to complete the MCCC Additional Requirements because courses can satisfy a Core Area and MCCC Additional Requirements simultaneously. Therefore no additional semester credits are required to satisfy Oral Communication and Critical Reading.

**1. Oral Communication**

A total of three (3) semester credits is required for Oral Communication. However, if students select a communication course that satisfies both the Oral Communication area and an

area within the Core, then the Oral Communication requirement has been satisfied and additional electives may be taken.

Select from the following options:

COM100 [SB] (3 credits)

**OR**

COM100AA & COM100AB & COM100AC [SB](3 credits)

**OR**

COM110 [SB] (3 credits)

**OR**

COM110AA & COM110AB & COM110AC [SB] (3 credits)

**OR**

COM225 [L] (3 credits)

**OR**

COM230 [L] [SB] (3 credits)

**2. Critical Reading**

A total of three (3) semester credits is required for the Critical Reading area. However, if students select a Critical Reading course that satisfies both the Critical Reading area and an area within the Core, or if the students demonstrate proficiency through assessment, then the Critical Reading requirement has been satisfied and additional electives may be taken.

CRE101 [L]

**OR**

equivalent as indicated by assessment

**II. NON-ENGLISH LANGUAGE REQUIREMENTS 0-16**

Students must demonstrate 4th semester proficiency at the 202 course level to satisfy the Non-English Language Requirements or a maximum of 16 semester credits in one non-English language. However, if students select non-English language courses that satisfy multiple areas of the degree, or if students demonstrate proficiency, then the non-English Language Requirements have been satisfied and additional electives may be taken.

**III. GENERAL ELECTIVES 3-29**

Select courses to complete a minimum of 60 semester credits but no more than a total of 64 semester credits.

For students who have decided on a major that articulates with the AA GR, but are undecided on the university they will transfer to, courses satisfying the General Electives area should be selected from the list of Common Courses in order for the courses to apply in the major upon transfer. See advisor for list of Common Courses. Not all majors have common courses. The list of Common Courses is accessible on the following web site:  
✓ [http://www.abor.asu.edu/4\\_special\\_programs/atass/index.html](http://www.abor.asu.edu/4_special_programs/atass/index.html)  
*Click on: Student Information / Degrees and Pathways / Maricopa County Community College District*

Students must select courses for General Electives that are acceptable as equivalent courses, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within the Course Applicability System (CAS).

AA GR Total Credits: 60-64

## Associate in Arts (AA) Degree, Special Requirements (SR)

The Maricopa County Community College District Associate in Arts Special Requirements (AA SR) requires a total of 60-64 semester credits for the program of study. The degree has three major components: 1) General Studies which includes the Arizona General Education Curriculum A (AGEC A), and MCCCDC Additional Requirements, 2) Common Lower Division Program Requirements, 3) General Electives.

The degree is designed for students who plan to transfer to Arizona's public universities into majors that articulate with the Associate in Arts Special Requirements pathway. The AA SR is designed for students who know their major but have not decided on their university for transfer purposes. Additional information on academic majors can be accessed via the following web site:

✓ [http://www.abor.asu.edu/4\\_special\\_programs/atass/index.html](http://www.abor.asu.edu/4_special_programs/atass/index.html)

*Click on Student Information / Degrees and Pathways / Maricopa County Community College District*

The degree transfers as a block without loss of credit to Arizona's public universities. All semester credits used to satisfy the MCCCDC Associate in Arts Special Requirements degree will apply to university graduation requirements of the university major for which the AA SR was designed, regardless of whether the credit was awarded for completion of course work or for prior learning. For additional information on credit awarded for prior learning assessment, see the policy on Credit for Prior Learning on page 19.

### The MCCCDC Associate in Arts Special Requirements:

- requires 60-64 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- uses the following policies to help students complete the required Core and Awareness Areas in AGECE A without exceeding the 35 semester credits;
  1. Courses can satisfy a Core Area and one or two Awareness Areas simultaneously.
  2. A course cannot be used to satisfy more than one Core Area requirement.
- uses the following policy to help students complete the program requirements at a minimum of 60 semester credits but not more than 64 semester credits;
 

Courses can satisfy multiple areas within the degree simultaneously (AGECE A Core Area, AGECE A Awareness Area, MCCCDC Additional Requirements, Common Lower Division Program Requirements).
- follows the general studies policy below; General Education Designations (example: (FYC), [SB], [HU], etc.)

Effective Fall 2000 the course evaluation and/or general education designation as listed in the CEG/AZCAS (Course Equivalency Guide/Arizona Course Applicability System) is valid for the term in which a student is awarded credit on the transcript. A course evaluation and/or general education designation may be subject to

change. Given that curriculum is dynamic at both MCCCDC and the institutions to which MCCCDC students transfer, students have the option to petition for course evaluation and/or general education designations.

- requires courses that transfer as equivalent courses, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within CAS. The course evaluation and/or general education designation as listed in CAS is valid for the term in which the student is awarded credit on the transcript;
- follows the graduation policies within the general catalog;
- includes both courses and their modular equivalents, either the course or the modular equivalents will satisfy the Associate in Arts Special Requirements;
- accepts one of the courses that is cross-referenced with other courses;
- provides for exemption from Arizona university admission requirements for students who complete the Associate in Arts degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

The 60-64 semester credits required for the Associate in Arts Special Requirements follow: See the list entitled "MCCCDC Courses That Can Be Used to Satisfy MCCCDC AGECE A, AGECE B and/or AGECE S" for specific course information via the following website:

✓ <http://www.dist.maricopa.edu/eddev/curric/>

*Click on Program Information, scroll down to Academic Program Transfer Information. Click on AGECE Course Matrix 2001.*

The list identifies the courses in alpha-order by prefix as well as the different Core Areas and Awareness Areas where the course will apply. For purposes of clarifying requirements in the Mathematics and Natural Sciences areas on the list and on the AGECE requirements, an A, B, and/or S character may follow the [MA], [SQ], [SG] general education designations and refers to a specific AGECE.

### I. MCCCDC GENERAL STUDIES Credits

The MCCCDC General Studies includes two areas, MCCCDC AGECE A and MCCCDC Additional Requirements.

#### A. MCCCDC AGECE A

- |  |           |
|--|-----------|
| <b>1. Core Areas:</b>  | <b>35</b> |
| a. First-Year Composition (FYC)  | 6         |
| b. Literacy and Critical Inquiry [L]   | 3         |
| c. Mathematical Studies [MA/CS]  | 6         |
| To complete the Mathematical Studies requirement select one course to satisfy the Mathematics [MA] A and a second course from either Computer/Statistics/Quantitative Applications [CS]. |           |
| 1) Mathematics [MA] A (3 credits)  |           |
| Select a course in college mathematics or college algebra or pre-calculus or any other mathematics course for which college algebra is a prerequisite. <b>AND</b>                        |           |
| 2) Computer/Statistics/Quantitative Applications [CS] (3 credits)  |           |

Associate in Arts (AA) Degree, Special Requirements (SR)

- d. Humanities and Fine Arts [HU] 6  
 Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix. There is one exception. HUM250 and HUM251 will satisfy the Humanities and Fine Arts area requirement.
- e. Social and Behavioral Sciences [SB] 6  
 Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix.
- f. Natural Sciences [SQ/SG] 8  
 To complete the Natural Sciences requirement:  
 Select four (4) semester credits of [SQ] and four (4) semester credits of [SG] for a total of eight (8) semester credits, **OR** select eight (8) semester credits of [SQ]. Students **cannot** take eight (8) semester credits of [SG] to meet the Natural Sciences requirement.

The courses selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. When the lecture and corresponding laboratory receive separate credit, both will be counted as equivalent to **one** course in that prefix.

**2. Awareness Areas:**

Students must satisfy two Awareness Areas: Cultural Diversity in the United States [C], and either Global Awareness [G] or Historical Awareness [H]. However, it is not necessary for students to exceed thirty-five semester credits to complete the Awareness Areas because courses can satisfy a Core Area and one or two Awareness Areas simultaneously. Therefore no additional semester credits are required to satisfy the two Awareness Areas.

- Cultural Diversity in the United States [C] **AND**
- Global Awareness [G] **OR**
- Historical Awareness [H]

**B. MCCCDC Additional Requirements 0-6**

Students must satisfy Oral Communication and Critical Reading areas for a total of six (6) semester credits. However, it is not necessary for students to exceed the thirty-five semester credits required in order to complete the MCCCDC Additional Requirements because courses can satisfy a Core Area and MCCCDC Additional Requirements simultaneously. Therefore no additional semester credits are required to satisfy Oral Communication and Critical Reading.

**1. Oral Communication**

A total of three (3) semester credits is required for Oral Communication. However, if students select a communication course that satisfies both the Oral Communication area and an area within the Core, then the Oral Communication requirement has been satisfied and additional electives may be taken.

- Select from the following options:
- COM100 [SB] (3 credits) **OR**
- COM100AA & COM100AB & COM100AC [SB] (3 credits) **OR**
- COM110 [SB] (3 credits) **OR**
- COM110AA & COM110AB & COM110AC [SB] (3 credits) **OR**
- COM225 [L] (3 credits) **OR**
- COM230 [L][SB] (3 credits)

**2. Critical Reading**

A total of three (3) semester credits is required for the Critical Reading area. However, if students select a Critical Reading course that satisfies both the Critical Reading area and an area within the Core, or if the students demonstrate proficiency through assessment, then the Critical Reading requirement has been satisfied and additional electives may be taken.

- CRE101 [L] **OR**
- equivalent as indicated by assessment

**II. COMMON LOWER DIVISION PROGRAM REQUIREMENTS 6**

A minimum of six (6) semester credits is required for Common Lower Division Program Requirements.

Students should refer to the Common Courses list for their chosen major and/or consult with an advisor to select courses from the Common Courses list. The list of Common Courses is accessible on the following web site:

- ✓ [http://www.abor.asu.edu/4\\_special\\_programs/atass/index.html](http://www.abor.asu.edu/4_special_programs/atass/index.html)
- Click on Student Information / Degrees and Pathways / Maricopa County Community College District*

**III. GENERAL ELECTIVES 13-23**

A total of 13-23 semester credits are required for General Electives. Students may wish to select additional courses in consultation with an advisor to complete a minimum of 60 semester credits but no more than a total of 64 semester credits.

For students who have decided on a major that articulates with the AA SR, but are undecided on the university they will transfer to, courses satisfying the General Electives area should be selected from the list of Common Courses in order for the courses to apply in the major upon transfer. See advisor for list of Common Courses. Not all majors have Common Courses. The list of Common Courses is accessible on the following web site:

- ✓ [http://www.abor.asu.edu/4\\_special\\_programs/atass/index.html](http://www.abor.asu.edu/4_special_programs/atass/index.html)
- Click on Student Information / Degrees and Pathways / Maricopa County Community College District*

In some majors students must demonstrate 4th semester proficiency at the 202 course level to satisfy the non-English language requirement or complete a maximum of 16 semester credits. However, if students select non-English language courses that satisfy multiple areas of the degree, or if students demonstrate proficiency, then the non-English language requirement has been satisfied and additional electives may be taken.

Students must select courses for General Electives that are acceptable as equivalent courses, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within the Course Applicability System (CAS).

AA SR Total Credits: 60-64

## Associate in Business (ABus) Degree, General Requirements (GR)

The Maricopa County Community College District Associate in Business General Requirements (ABus GR) degree requires a total of 62-63 semester credits for the program of study. The degree has three major components:

- 1) MCCCDC General Studies which includes AGECE B,
- 2) Common Lower Division Program Requirements,
- 3) General Electives.

The ABus GR degree is designed for students who plan to transfer to Arizona's public universities into majors that articulate with the Associate in Business General Requirements pathway. All business majors except Accountancy and Computer Information Systems should follow the ABus GR pathway. Accountancy majors should follow the Transfer Guide (TG-XR) pathway. Computer Information Systems majors should follow the Associate in Business Special Requirements pathway.

The degree transfers as a block without loss of credit to Arizona's public universities. All semester credits used to satisfy the MCCCDC Associate in Business General Requirements will apply to university graduation requirements of the university major for which the ABus GR was designed, regardless of whether the credit was awarded for completion of course work or for prior learning. For additional information on credit awarded for prior learning assessment, see the policy on Credit for Prior Learning on page 19.

### The MCCCDC Associate in Business General Requirements:

- requires 62-63 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- uses the following policies to help students complete the required Core and Awareness Areas in AGECE B without exceeding the 35 semester credits;
  1. Courses can satisfy a Core Area and one or two Awareness Areas simultaneously.
  2. A course cannot be used to satisfy more than one Core Area requirement.
- uses the following policies to help students complete the program requirements at a minimum of 62 semester credits but not more than 63 semester credits
  1. Courses can satisfy multiple areas within the degree simultaneously (AGECE B Core Area, AGECE B Awareness Area, and/or Common Lower Division Program Requirements)
- follows the general studies policy below;
 

General Education Designations (example: (FYC), [SB], [HU], etc.)

Effective Fall 2000 the course evaluation and/or general education designation as listed in the CEG/AZCAS (Course Equivalency Guide/Arizona Course Applicability System) is valid for the **term** in which the student is awarded credit on the transcript. A course evaluation and/or general education designation may be subject to change. Given that curriculum is dynamic at both MCCCDC and the institutions to which MCCCDC students transfer, students have the option to petition for general education evaluations and/or general education designations.

- requires courses that transfer as an equivalent course, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within the CAS. The course evaluation and/or general education designation as listed in CAS is valid for the term in which the student is awarded credit on the transcript;
- follows the graduation policies within the general catalog;
- includes both courses and their modular equivalents, either the course or the modular equivalents will satisfy the Associate in Business General Requirements;
- accepts one of the courses that is cross-referenced with other courses;
- provides for exemption from Arizona university admission requirements for students who complete the ABus GR degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

The 62-63 semester credits required for the Associate in Business General Requirements follow. See the list entitled "MCCCDC Courses That Can Be Used to Satisfy MCCCDC AGECE A, AGECE B" and/or AGECE S for specific course information via the following website:

✓ <http://www.dist.maricopa.edu/eddev/curric/>  
*Click on Program Information, scroll down to Academic Program Transfer Information. Click on AGECE Course Matrix 2001.*

The list identifies the courses in alpha-order by prefix as well as the different Core Areas and Awareness Areas where the course will apply. For purposes of clarifying requirements in the Mathematics and Natural Sciences areas on the list and on the AGECE requirements, an A, B, and/or S character may follow the [MA], [SQ], [SG] general education designations and refers to a particular AGECE.

Associate in Business (ABus) Degree, General Requirements (GR)

**I. MCCC GENERAL STUDIES**

Credits

**A. MCCC AGEC B**

- 1. Core Areas: 35
  - a. First-Year Composition (FYC) 6
  - b. Literacy and Critical Inquiry [L] 3
  - c. Mathematical Studies [MA/CS] 6  
To complete the Mathematical Studies requirement select one course to satisfy Mathematics [MA] B and a second course from Computer/Statistics/Quantitative Applications [CS].
    - 1) Mathematics [MA] B (3 credits)  
MAT212, Brief Calculus, or a higher level mathematics course  
*AND*
    - 2) Computers/Statistics/Quantitative Applications [CS] (3 credits). *Note: Students are encouraged to select GBS221 or CIS105 to satisfy [CS].*
  - d. Humanities and Fine Arts [HU] 6  
Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix. There is one exception. HUM250 and HUM251 will satisfy the Humanities and Fine Arts area requirement.
  - e. Social and Behavioral Sciences [SB] 6  
Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix.
  - f. Natural Sciences [SQ/SG] 8  
To complete the Natural Sciences requirement:  
Select four (4) semester credits of [SQ] and four (4) semester credits of [SG] for a total of (8) semester credits, **OR** eight (8) semester credits of [SQ]. Students **cannot** take eight (8) semester credits of [SG] to meet the Natural Sciences requirement.  
The courses selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. When the lecture and corresponding laboratory receive separate credit, both will be counted as equivalent to **one** course in that prefix.
- 2. Awareness Areas  
Students must satisfy two Awareness Areas: Cultural Diversity in the United States [C] and either Global Awareness [G] or Historical Awareness [H]. However, it is not necessary for students to exceed thirty-five semester credits to complete the Awareness Areas because courses can satisfy a Core Area and one or two Awareness Areas simultaneously. Therefore no additional semester credits are required to satisfy the two Awareness Areas.
  - Cultural Diversity in the United States [C]  
*AND*
  - Global Awareness [G]  
*OR*
  - Historical Awareness [H]

**II. COMMON LOWER DIVISION PROGRAM REQUIREMENTS:**

27-28

A total of 27-28 credits is required to satisfy the Common Lower Division Program Requirements. However, if students select courses that simultaneously satisfy multiple areas of the degree, then the number of semester credits required for Common Lower Division Program Requirements is reduced. Additional semester credits may be required in General Electives to complete the minimum 62-63 total program semester credits.

Complete the following:

**Accounting:**

\* ACC111 & ACC230 & ACC240

*OR*

\*\* ACC211 & ACC212

6-7

\*MCCC ACC250 or ACC211 may be taken in lieu of ACC111.

\*\*MCCC ACC111 and ACC112 together are equivalent to ACC211.

- CIS105 [CS] 3
- ECN111 [SB] 3
- ECN112 [SB] 3
- GBS205 3
- GBS220 or MAT172 [MA] 3
- GBS221 [CS] 3

**Business Elective:**

3

Select from the following options:

- CIS158 [CS] COBOL Programming I
- CIS159 [CS] Visual Basic Programming I
- CIS162AA [CS] C: Level I
- CIS162AB [CS] C++: Level I
- CIS162AC [CS] Visual C++: Level I
- CIS163AA [CS] Java Programming: Level I
- GBS151 Introduction to Business
- GBS233 [L] Business Communication
- MGT251 Human Relations in Business
- MGT253 Owning and Operating a Small Business
- REA179 Real Estate Principles I

**III. GENERAL ELECTIVES**

Select courses to complete a minimum of 62 semester credits but no more than a total of 63 semester credits. General Electives semester credits may be necessary if courses selected for the degree satisfy multiple areas. For appropriate course selection, students should consult an advisor.

Students must select courses that are acceptable as an equivalent course, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within the Course Applicability System (CAS). For appropriate course selection, students should consult with an advisor.

ABus GR Degree Total Credits: 62-63

## Associate in Business (ABus) Degree, Special Requirements (SR)

The Maricopa County Community College District Associate in Business, Special Requirements (ABus SR) degree requires a total of 62-63 semester credits for the program of study. The degree has three major components:

- 1) MCCCDC General Studies which includes AGEC B,
- 2) Common Lower Division Program Requirements,
- 3) General Electives.

The ABus SR degree is designed for Computer Information Systems majors who plan to transfer to Arizona's public universities. Currently the pathway for accountancy majors is a Transfer Guide Pathway (TG-XR). The Associate in Business General Requirements is designed for all other business majors. Additional information on academic majors can be accessed via the following web site:

✓ [http://www.abor.asu.edu/4\\_special\\_programs/atass/index.html](http://www.abor.asu.edu/4_special_programs/atass/index.html)

*Click on*

- *Student Information*
- *Degrees and Pathways*
- *Maricopa County Community College District*

The Associate in Business Special Requirements transfers as a block without loss of credit to Arizona's public universities. All semester credits used to satisfy the MCCCDC Associate in Business Special Requirements will apply to university graduation requirements of the university major for which the ABus SR was designed, regardless of whether the credit was awarded for completion of course work or for prior learning. For additional information on credit awarded for prior learning assessment, see the policy on Credit for Prior Learning on page 19.

### The MCCCDC Associate in Business Special Requirements:

- requires 62-63 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- uses the following policies to help students complete the required Core and Awareness Areas in AGEC B without exceeding the 35 semester credits;
  1. Courses can satisfy a Core Area and one or two Awareness Areas simultaneously.
  2. A course cannot be used to satisfy more than one Core Area requirement.
- uses the following policy to help students complete the program requirements at a minimum of 62 semester credits but not more than 63 semester credits;

Courses can satisfy multiple areas within the degree simultaneously (AGEC B Core Area, AGEC B Awareness Area, and/or Common Lower Division Program Requirements)

- follows the general studies policy below;

General Education Designations (example: (FYC), [SB], [HU], etc.)

Effective Fall 2000 the course evaluation and/or general education designation, as listed in the CEG/AZCAS (Course Equivalency Guide/Arizona Course Applicability System) is valid for the **term** in which the student is awarded credit on the transcript. A course evaluation and/or general education designation may be subject to change. Given that curriculum is dynamic at both MCCCDC and the institutions to which MCCCDC students transfer, students have the option to petition for course evaluations and/or general education designations.

- requires courses that transfer as an equivalent course, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within CAS. The course evaluation and/or general education designation as listed in CAS is valid for the term in which the student is awarded credit on the transcript;
- follows the graduation policies within the general catalog;
- includes both courses and their modular equivalents, either the course or the modular equivalents will satisfy the Associate in Business Special Requirements;
- accepts one of the courses that is cross-referenced with other courses;
- provides for exemption from Arizona university admission requirements for students who complete the ABus SR degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

The 62-63 semester credits required for the Associate in Business Special Requirements follow. See the list entitled "MCCCDC Courses That Can Be Used to Satisfy MCCCDC AGEC A, AGEC B and/or AGEC S" for specific course information via the following website:

✓ <http://www.dist.maricopa.edu/eddev/curric/>

*Click on Program Information, scroll down to Academic Program Transfer Information. Click on AGEC Course Matrix 2001.*

The list identifies the courses in alpha-order by prefix as well as the different Core Areas and Awareness Areas where the course will apply. For purposes of clarifying requirements in the Mathematics and Natural Sciences areas on the list and on the AGEC requirements, an A, B, and/or S character may follow the [MA], [SQ] [SG] general education designations and refers to a particular AGEC.

Associate in Business (ABus) Degree, Special Requirements (SR)

**I. MCCC GENERAL STUDIES**

Credits

**A. MCCC AGEC B**

- 1. Core Areas: 35
  - a. First-Year Composition (FYC) 6
  - b. Literacy and Critical Inquiry [L] 3
  - c. Mathematical Studies [MA/CS] 6  
To complete the Mathematical Studies requirement select one course to satisfy the Mathematics [MA] B and a second course from Computer/Statistics/Quantitative Applications [CS]
    - 1) Mathematics [MA] B (3 credits)  
MAT212, Brief Calculus, or a higher level mathematics course  
*AND*
    - 2) Computer/Statistics/Quantitative Applications [CS] *Note: Students are encouraged to select GBS221 or CIS105 to satisfy [CS].*
  - d. Humanities and Fine Arts [HU] 6  
Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix. There is one exception. HUM250 and HUM251 will satisfy the Humanities and Fine Arts area requirement.
  - e. Social and Behavioral Sciences [SB] 6  
Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix.
  - f. Natural Sciences [SQ/SG] 8  
To complete the Natural Sciences requirement:  
Select four (4) semester credits of [SQ] and four (4) semester credits of [SG] for a total of eight (8) semester credits, **OR** eight (8) semester credits of [SQ]. Students **cannot** take eight (8) semester credits of [SG] to meet the Natural Sciences requirement.  
The courses selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. When the lecture and corresponding laboratory receive separate credit, both will be counted as equivalent to one course in that prefix.
- 2. Awareness Areas  
Students must satisfy two Awareness Areas: Cultural Diversity in the United States [C] and either Global Awareness [G] or Historical Awareness [H]. However, it is not necessary for students to exceed thirty-five semester credits to complete the Awareness Areas because courses can satisfy a Core Area and one or two Awareness Areas simultaneously. Therefore no additional semester credits are required to satisfy the two Awareness Areas.
  - Cultural Diversity in the United States [C]  
*AND*
  - Global Awareness [G]  
*OR*
  - Historical Awareness [H]

**II. COMMON LOWER DIVISION PROGRAM REQUIREMENTS:**

**27-28**

A total of 27-28 credits is required for the Common Lower Division Program Requirements. Common courses meeting general studies areas are noted with the general education designations encased in brackets.

Complete the following:

**Accounting:**

\* ACC111 & ACC230 & ACC240

*OR*

\*\* ACC211 & ACC212

6-7

*\*MCCCD ACC250 or ACC211 may be taken in lieu of ACC111.*

*\*\*MCCCD ACC111 and ACC112 together are equivalent to ACC211.*

**Programming I (COBOL/Java/Visual Basic):**

3

Select 3 credits from the following:

CIS158 [CS]

*OR*

CIS159 [CS]

*OR*

CIS163AA [CS]

**Programming II (C or C++):**

3

Select 3 credits from the following:

CIS162 [CS]

*OR*

CIS162AA [CS]

*OR*

CIS162AB [CS]

*OR*

CIS162AC [CS]

GBS205

3

GBS220 or MAT172 [MA]

3

GBS221 [CS]

3

ECN111 [SB]

3

ECN112 [SB]

3

**III. GENERAL ELECTIVES**

**0-6**

Select courses to complete a minimum of 62 semester credits but no more than a total of 63 semester credits for the program. General Electives semester credits may be necessary if courses selected for the degree satisfy multiple areas. For appropriate course selection, students should consult an advisor.

Students must select courses that are acceptable as an equivalent course, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within the Course Applicability System (CAS). For appropriate course selection, students should consult with an advisor.

ABus SR Total Credits:

62-63

Associate in Science (AS) Degree, General Requirements (GR)

## Associate in Science (AS) Degree, General Requirements (GR)

The Maricopa County Community College District Associate in Science General Requirements (AS GR) requires a total of 60-64 semester credits for the program of study. The degree has three major components: 1) General Studies which includes the Arizona General Education Curriculum-S (AGEC S) and MCCCDC Additional Requirements, 2) Major Specific Requirements, 3) General Electives.

The degree is designed for students who plan to transfer into majors that articulate with the Associate in Science General Requirements pathway. The AS GR is designed for students who plan to pursue an associate degree or transfer to an Arizona university and satisfy requirements in majors with more stringent mathematics and mathematics-based science requirements. Additional information on academic majors can be accessed via the following web site:

✓ [http://www.abor.asu.edu/4\\_special\\_programs/atass/index.html](http://www.abor.asu.edu/4_special_programs/atass/index.html)

*Click on / Student Information / Degrees and Pathways / Maricopa County Community College District*

The degree transfers as a block without loss of credit to Arizona's public universities. All semester credits used to satisfy the MCCCDC Associate in Science General Requirements will apply to university graduation requirements of the university major for which the AS GR was designed, regardless of whether the credit was awarded for completion of course work or for prior learning. For additional information on credit awarded for prior learning assessment, see the policy on Credit for Prior Learning on page 19.

### The MCCCDC Associate in Science General Requirements:

- requires 60-64 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- uses the following policies to help students complete the required Core and Awareness Areas in AGECS without exceeding the 35 semester credits;
  1. Courses can satisfy a Core Area and one or two Awareness Areas simultaneously.
  2. A course cannot be used to satisfy more than one Core Area requirement.
- uses the following policy to help students complete the program requirements at a minimum of 60 semester credits but not more than 64 semester credits;

Courses can satisfy multiple areas within the degree simultaneously (AGECS Core Area, AGECS Awareness Area, MCCCDC Additional Requirements, Non-English Language Requirements).

- follows the general studies policy below;

General Education Designations (examples: (FYC), [SB], [HU], etc.)

Effective Fall 2000 the course evaluation and/or the general education designation as listed in the CEG/AZCAS (Course Equivalency Guide/Arizona Course Applicability

System) is valid for the term in which the student is awarded credit on the transcript. A course evaluation and/or general education designation may be subject to change. Given that curriculum is dynamic at both MCCCDC and the institutions to which MCCCDC students transfer, students have the option to petition for course evaluations and/or general education designations.

- requires courses that transfer as equivalent courses, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within the CAS. The course evaluation and/or general education designation as listed in CAS is valid for the term in which the student is awarded credit on the transcript;
- follows the graduation policies within the general catalog;
- includes both courses and their modular equivalents, either the course or the modular equivalents will satisfy the Associate in Science General Requirements;
- accepts one of the courses that is cross-referenced with other courses;
- provides for exemption from Arizona university admission requirements for students who complete the Associate in Science degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

The 60-64 semester credits required for the Associate in Science General Requirements follow. See the list entitled "MCCCDC Courses That Can Be Used to Satisfy MCCCDC AGECS A, AGECS B and/or AGECS S" for specific course information via the following website:

✓ <http://www.dist.maricopa.edu/eddev/curric/>

*Click on Program Information, scroll down to Academic Program Transfer Information. Click on AGECS Course Matrix 2001.*

The list identifies the courses in alpha-order by prefix as well as the different Core Areas and Awareness Areas where the course will apply. For purposes of clarifying requirements in the Mathematics and Natural Sciences areas on the list and on the AGECS requirements, an A, B, and/or S character may follow the [MA], [SQ], [SG] general education designations and refers to a specific AGECS.

### **I. MCCCDC GENERAL STUDIES** Credits

The MCCCDC General Studies includes two areas, MCCCDC AGECS S and MCCCDC Additional Requirements.

#### **A. MCCCDC AGECS S**

- |   |           |
|---|-----------|
| <b>1. Core Areas:</b>   | <b>35</b> |
| a. First-Year Composition (FYC)   | 6         |
| b. Literacy and Critical Inquiry [L]  | 3         |
| c. Mathematical Studies [MA/CS]   | 6         |
| To complete the Mathematical Studies requirement select one course to satisfy the Mathematics [MA] S and a second course from Computer/Statistics/Quantitative Applications [CS]. |           |



Associate in Science (AS) Degree, General Requirements (GR)

- 1) Mathematics [MA] S (3 credits)  
Select a course in a calculus sequence (MAT220/ MAT221), or any mathematics course for which that course is a prerequisite *AND*
- 2) Computer/Statistics/Quantitative Applications [CS] (3 credits)
- d. Humanities and Fine Arts [HU] 6  
Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix. There is one exception. HUM250 and HUM251 will satisfy the Humanities and Fine Arts area requirement.
- e. Social and Behavioral Sciences [SB] 6  
Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix.
- f. Natural Sciences [SQ/SG] 8  
To complete the Natural Sciences requirement:  
Select eight (8) semester credits of either general chemistry (CHM151 & CHM151LL, and CHM152 & CHM152LL), *OR*  
Eight (8) semester credits of university physics (PHY115 & PHY116, or PHY121 & PHY131), *OR*  
Eight (8) semester credits of general biology (BIO181 & 182) appropriate to the major.  
The courses selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. When the lecture and corresponding laboratory receive separate credit, both will be counted as equivalent to one course in that prefix.

**2. Awareness Areas:**

Students must satisfy two Awareness Areas: Cultural Diversity in the United States [C] and either Global Awareness [G] or Historical Awareness [H]. However, it is not necessary for students to exceed thirty-five semester credits to complete the Awareness Areas because courses can satisfy a Core Area and one or two Awareness Areas simultaneously. Therefore no additional semester credits are required to satisfy the two Awareness Areas.

- Cultural Diversity in the United States [C] *AND*
- Global Awareness [G] *OR*
- Historical Awareness [H]

**B. MCCCDC Additional Requirements 0-6**

Students must satisfy Oral Communication and Critical Reading areas for a total of six (6) semester credits. However, it is not necessary for students to exceed the thirty-five semester credits required in order to complete the MCCCDC Additional Requirements because courses can satisfy a Core Area and MCCCDC Additional Requirements simultaneously. Therefore no additional semester credits are required to satisfy Oral Communication and Critical Reading.

**1. Oral Communication**

A total of three (3) semester credits is required for Oral Communication. However, if students select a communication course that satisfies both the Oral Communication area and an area within the Core, then the Oral Communication

requirement has been satisfied and additional electives may be taken.

Select from the following options :

- COM100 [SB] (3 credits) *OR*
- COM100AA & COM100AB & COM100AC [SB](3 credits) *OR*
- COM110 [SB] (3 credits) *OR*
- COM110AA & COM110AB & COM110AC [SB] (3 credits) *OR*
- COM225 [L] (3 credits) *OR*
- COM230 [L] [SB] (3 credits)

**2. Critical Reading**

A total of three (3) semester credits is required for the Critical Reading area. However, if students select a Critical Reading course that satisfies both the Critical Reading area and an area within the Core, or if the students demonstrate proficiency through assessment, then the Critical Reading requirement has been satisfied and additional electives may be taken.

- CRE101 [L] *OR*
- equivalent as indicated by assessment

**II. MAJOR SPECIFIC REQUIREMENTS**

**Non-English Language Requirements 0-16**

In some majors students must demonstrate 4th semester proficiency at the 202 course level to satisfy the Non-English Language Requirements or complete a maximum of 16 semester credits. However, if students select non-English Language courses that satisfy multiple areas of the degree, or if students demonstrate proficiency, then the Non-English Language Requirements have been satisfied and additional electives may be taken.

**III. GENERAL ELECTIVES 3-29**

Select courses to complete a minimum of 60 semester credits but no more than a total of 64 semester credits.

For students who have decided on a major that articulates with the AS GR, but are undecided on the university they will transfer to, courses satisfying the General Electives area should be selected from the list of Common Courses in order for the courses to apply in the major upon transfer. Students should consult with an advisor for a list of Common Courses. Not all majors have common courses. The list of Common Courses is accessible on the following web site:  
✓ [http://www.abor.asu.edu/4\\_special\\_programs/atass/index.html](http://www.abor.asu.edu/4_special_programs/atass/index.html)  
*Click on Student Information /Common Course Matrices.*  
*Click on appropriate area of interest to retrieve information on common courses for that area.*

Students must select courses for General Electives that are acceptable as equivalent courses, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within the Course Applicability System (CAS).

AS GR Total Credits: 60-64

Associate in Science (AS) Degree, Special Requirements (SR)

## Associate in Science (AS) Degree, Special Requirements (SR)

The Maricopa County Community College District Associate in Science Special Requirements (AS SR) is a degree requiring a total of 60-64 semester credits for the program of study. The degree has three major components: 1) General Studies which includes the Arizona General Education Curriculum S (AGEC S) and MCCCDC Additional Requirements, 2) Additional Mathematics and Science Requirements, 3) Major Specific Requirements.

The degree is designed for students who plan to transfer to Arizona's public universities into majors that articulate with the Associate in Science Special Requirements pathway. The AS SR is designed for students who know their major and plan to pursue an associate degree or transfer to an Arizona university, as yet undecided, and satisfy requirements in majors with more stringent mathematics and mathematics-based science requirements. Additional information on academic majors can be accessed via the following web site:

✓ [http://www.abor.asu.edu/4\\_special\\_programs/atass/index.html](http://www.abor.asu.edu/4_special_programs/atass/index.html)

*Click on Student Information / Degrees and Pathways / Maricopa County Community College District*

The degree transfers as a block without loss of credit to Arizona's public universities. All semester credits used to satisfy the MCCCDC Associate in Science Special Requirements will apply to university graduation requirements of the university major for which the AS SR was designed, regardless of whether the credit was awarded for completion of course work or for prior learning. For additional information on credit awarded for prior learning assessment, see the policy on Credit for Prior Learning on page 19.

### The MCCCDC Associate in Science Special Requirements:

- requires 60-64 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- uses the following policies to help students complete the required Core and Awareness Areas in AGECS without exceeding the 35 semester credits;
  1. Courses can satisfy a Core Area and one or two Awareness Areas simultaneously.
  2. A course cannot be used to satisfy more than one Core Area requirement.
- uses the following policy to help students complete the program requirements at a minimum of 60 semester credits but not more than 64 semester credits;
 

Courses can satisfy multiple areas within the degree simultaneously (AGECS Core Area, AGECS Awareness Area, MCCCDC Additional Requirements, Non-English Language Requirements, Additional Mathematics and Science Requirements, Common Lower Division Program Requirements).
- follows the general studies policy below;
 

General Education Designations (examples: (FYC), (SB), (HU), etc.)

Effective Fall 2000 the course evaluation and/or general education designation as listed in the CEG/AZCAS (Course Equivalency Guide/Arizona Course Applicability System) is valid for the **term** in which the student is awarded credit on the transcript. A course evaluation and/or general education designation may be subject to change. Given that curriculum is dynamic at both MCCCDC and the institutions to which

MCCCDC students transfer, students have the option to petition for course evaluations and/or general education designations.

- requires courses that transfer as equivalent courses, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within the CAS. The course evaluation and/or general education designation as listed in CAS is valid for the term in which the student is awarded credit on the transcript;
- follows the graduation policies within the MCCCDC general catalog;
- includes both courses and their modular equivalents, either the course or the modular equivalents will satisfy the Associate in Science Special Requirements;
- accepts one of the courses that is cross-referenced with other courses;
- provides for exemption from Arizona university admission requirements for students who complete the Associate in Science degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

The 60-64 semester credits required for the Associate in Science Special Requirements follow. See the list entitled "MCCCDC Courses That Can Be Used to Satisfy MCCCDC AGECS A, AGECS B and/or AGECS S" for specific course information via the following website:

✓ <http://www.dist.maricopa.edu/eddev/curric/>

*Click on Program Information, scroll down to Academic Program Transfer Information. Click on AGECS Course Matrix 2001.*

The list identifies the courses in alpha-order by prefix as well as the different Core Areas and Awareness Areas where the course will apply. For purposes of clarifying requirements in the Mathematics and Natural Sciences areas on the list and on the AGECS requirements, an A, B, and/or S character follows the [MA], [SQ], [SG] general education designations and refers to a particular AGECS.

### I. MCCCDC GENERAL STUDIES

Credits

The MCCCDC General Studies includes two areas, MCCCDC AGECS and MCCCDC Additional Requirements.

#### A. MCCCDC AGECS

- |  |           |
|--|-----------|
| <b>1. Core Areas:</b>  | <b>35</b> |
| a. First-Year Composition (FYC)  | 6         |
| b. Literacy and Critical Inquiry [L]   | 3         |
| c. Mathematical Studies [MA/CS]  | 6         |
| To complete the Mathematical Studies requirement select one course to satisfy the Mathematics [MA] S and a second course from Computer/Statistics/Quantitative Applications [CS].  |           |
| 1) Mathematics [MA] S (3 credits)  |           |
| Select a course in a calculus sequence (MAT220/MAT221) or any mathematics course for which that course is a prerequisite <b>AND</b>  |           |
| 2) Computer/Statistics/Quantitative Applications [CS] (3 credits)  |           |
| d. Humanities and Fine Arts [HU]   | 6         |
| Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix. There is one exception. HUM250 and HUM251 will satisfy the Humanities and Fine Arts area requirement. |           |

Associate in Science (AS) Degree, Special Requirements (SR)

e. Social and Behavioral Sciences [SB] 6  
Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix.

f. Natural Sciences [SQ/SG] 8  
To complete the Natural Sciences requirements:  
Select eight (8) semester credits of either general chemistry (CHM151 & CHM151LL, and CHM152 & CHM152LL), *OR*  
Eight (8) semester credits of university physics (PHY115 & PHY116, or PHY121 & PHY131), *OR*  
Eight (8) semester credits of general biology (BIO181 & BIO182) appropriate to the major.

The courses selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. When the lecture and corresponding laboratory receive separate credit, both will be counted as equivalent to **one** course in that prefix.

**2. Awareness Areas:**

Students must satisfy two Awareness Areas: Cultural Diversity in the United States [C] and either Global Awareness [G] or Historical Awareness [H]. However, it is not necessary for students to exceed thirty-five semester credits to complete the Awareness Areas because courses can satisfy a Core Area and one or two Awareness Areas simultaneously. Therefore no additional semester credits are required to satisfy the two Awareness Areas.

1. Cultural Diversity in the United States [C] *AND*
2. Global Awareness [G] *OR*
3. Historical Awareness [H]

**B. MCCCDC Additional Requirements 0-6**

Students must satisfy Oral Communication and Critical Reading areas for a total of six (6) semester credits. However, it is not necessary for students to exceed the thirty-five semester credits required in order to complete the MCCCDC Additional Requirements because courses can satisfy a Core Area and MCCCDC Additional Requirements simultaneously. Therefore, no additional semester credits are required to satisfy Oral Communication and Critical Reading.

**1. Oral Communication**

A total of three (3) semester credits is required for Oral Communication. However, if students select a communication course that satisfies both the Oral Communication area and an area within the Core, then the Oral Communication requirement has been satisfied and additional electives may be taken.

- Select from the following options:  
COM100 [SB] (3 credits) *OR*  
COM100AA & COM100AB & COM100AC [SB] (3 credits) *OR*  
COM110 [SB] (3 credits) *OR*  
COM110AA & COM110AB & COM110AC [SB] (3 credits) *OR*  
COM225 [L] (3 credits) *OR*  
COM230 [L] [SB] (3 credits)

**2. Critical Reading**

A total of three (3) semester credits is required for the Critical Reading area. However, if students select a Critical Reading course that satisfies both the Critical Reading area and an area within the Core, or if the students demonstrate proficiency through assessment, then the Critical Reading requirement has been satisfied and additional electives may be taken.

- CRE101 [L] *OR*  
equivalent as indicated by assessment

**II. ADDITIONAL MATHEMATICS AND SCIENCE REQUIREMENTS 11-13**

**A. Additional Mathematics Requirements 3-5**  
Select a course in a calculus sequence (MAT230 or MAT231) or any mathematics course for which that course is a prerequisite.

**B. Additional Science Requirements 8**  
Select **one** option from the following. Option selected under Natural Sciences [SQ/SG] in MCCCDC Core Areas will not apply in the Additional Science Requirement area. *NOTE: Students should consult with an advisor or department/division chair for appropriate course selection.*

- Select eight (8) semester credits of either general chemistry (CHM151 & CHM151LL, and CHM152 & CHM152LL), *OR*  
Eight (8) semester credits in university physics (PHY115 & PHY116, or PHY121 & PHY131), *OR*  
Eight (8) semester credits in general biology (BIO181 & BIO182) appropriate for the major.

**III. MAJOR SPECIFIC REQUIREMENTS**

**A. Non-English Language Requirements 0-16**  
In some majors students must demonstrate 4th semester proficiency at the 202 course level to satisfy the Non-English Language Requirement or complete a maximum of 16 semester credits. However, if students select non-English language courses that satisfy multiple areas of the degree, or if students demonstrate proficiency, then the non-English Language Requirement has been satisfied and additional electives may be taken.

**B. Common Lower Division Program Requirements 6**  
A minimum of six (6) semester credits is required for Common Lower Division Program Requirements.

Students should refer to the list of Common Courses for their chosen major and/or consult with an advisor to select courses from the list. The list of Common Courses is accessible on the following web site:

- ✓ [http://www.abor.asu.edu/4\\_special\\_programs/atass/index.html](http://www.abor.asu.edu/4_special_programs/atass/index.html)  
*Click on Student Information / Degrees and Pathways / Maricopa County Community College District*

**C. General Electives**  
If needed, select courses to complete a minimum of 60 semester credits but no more than a total of 64 semester credits. For students who have decided on a major that articulates with the AS SR, but are undecided on the university they will transfer to, courses satisfying the General Electives area should be selected from the list of Common Courses in order for the courses to apply in the major upon transfer. See advisor for list of Common Courses. Not all majors have Common Courses. The list of Common Courses is accessible on the following web site:

- ✓ [http://www.abor.asu.edu/4\\_special\\_programs/atass/index.html](http://www.abor.asu.edu/4_special_programs/atass/index.html)  
*Click on Student Information / Common Course Matrices. Click on appropriate area of interest to retrieve information on common courses for that area.*

Students must select courses for General Electives that are acceptable as equivalent courses, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within the Course Applicability System (CAS).

AS SR Total Credits: 60-64

## Arizona General Education Curriculum (AGEC), AGE C A, AGE C B, AGE C S

The Maricopa County Community College District Arizona General Education Curriculum (MCCCD AGE C) is a 35-semester-credit general education program of study that fulfills lower-division general education requirements for students planning to transfer to any Arizona public community college or university. The MCCCD AGE C transfers as a block without loss of credit.

All credits used to satisfy the MCCCD AGE C will apply to graduation requirements of the university major for which the AGE C was designed, regardless of whether the credit was awarded for completion of course work or for prior learning. For additional information on credit awarded for prior learning assessment, see the policy on Credit for Prior Learning on page 19.

For students planning to pursue an associate degree or transfer to an Arizona public community college or university, the AGE C A is a component of the MCCCD Associate in Arts, the AGE C B is a component of the MCCCD Associate in Business, and the AGE C S is a component of the MCCCD Associate in Science.

### Three Types of MCCCD AGE Cs

There are three types of MCCCD AGE Cs. They are the AGE C A, the AGE C B, and the AGE C S. Designed to articulate with different academic majors, their requirements vary accordingly. Additional information on academic majors can be accessed via the following website:

✓ [http://www.abor.asu.edu/4\\_special\\_programs/atass/index.html](http://www.abor.asu.edu/4_special_programs/atass/index.html)

*Click on Student Information / Degrees and Pathways / Maricopa County Community College District*

1. The AGE C A is designed to satisfy requirements in many liberal arts majors as well as other majors that articulate with the Associate in Arts (e.g., social sciences, fine arts, humanities). AGE C A requires a minimum of college mathematics or college algebra to satisfy the Mathematics [MA] requirement. AGE C A Mathematics requirement is less stringent than the AGE C B and AGE C S. AGE C A and AGE C B Natural Sciences requirements are less stringent than AGE C S.

2. The AGE C B is designed to satisfy requirements in business majors that articulate with the Associate in Business. AGE C B requires a minimum of brief calculus to satisfy the Mathematics [MA] requirement.

3. The AGE C S is designed to satisfy requirements in majors with more prescriptive mathematics and mathematics-based science requirements. AGE C S articulates with the Associate in Science. AGE C S requires a minimum of the first course in a calculus sequence to satisfy the Mathematics [MA] requirement, and a minimum of eight credits of either university chemistry, university physics or general biology to satisfy the Natural Sciences [SQ/SG] requirement.

The MCCCD AGE C A, AGE C B, and AGE C S:

- require 35 semester credits in courses numbered 100 and above to be completed with a grade of “C” or better. Credit units transferred from outside of the district need to be at a grade of “C” or better. A grade of “C” equals 2.0 on a 4.0 grading scale or equivalent;
- use the following policies to help students complete the required Core and Awareness Areas without exceeding the 35 semester credits;
  1. Courses can satisfy a Core area and one or two Awareness areas simultaneously.
  2. A course cannot be used to satisfy more than one Core area requirement.

- follows the general studies policy below;

General Education Designations (example: (FYC), [SB], [HU], etc.)

Effective Fall 2000 the course evaluation and/or the general education designation as listed in the CEG/AZCAS (Course Equivalency Guide/Arizona Course Applicability System) is valid for the **term** in which the student is awarded credit on the transcript. A course evaluation and/or general education designation may be subject to change. Given that curriculum is dynamic at both MCCCD and the institutions to which MCCCD students transfer, students have the option to petition for course evaluations and/or general education designations.

The Second Summer 2000 term is the last term that the course evaluation and/or the general education designation as listed in the printed Course Equivalency Guide (CEG) is valid for the **academic year** in which the student completes the course (**summer session is included with the previous academic year**).

- require courses that transfer as equivalent courses, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona Higher Education Course Equivalency Guide (CEG) within CAS. The course evaluation and/or general education designation as listed in CAS is valid for the term in which the student is awarded credit on the transcript;
- require that a minimum of 12 semester credits of course work be taken at any of the MCCCD colleges;
- include both courses and their modular equivalents, either the course or the modular equivalents will satisfy the AGE C;
- accept one of the courses that is cross-referenced with other courses;
- provide for exemption from Arizona university admission requirements for: Students who complete the AGE C A, AGE C B, or AGE C S with a minimum 2.0 on a 4.0=A scale, or students who complete an associate or higher degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A

Arizona General Education Curriculum (AGEC), AGEC A, AGEC B, AGEC S

scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

The 35 semester credits required for each of the three AGECS follow. See the list entitled “MCCCD Courses That Can Be Used to Satisfy MCCCD AGEC A, AGEC B and/or AGEC S” for specific course information via the following website:

✓ <http://www.dist.maricopa.edu/eddev/curric/>

Click on Program Information. Scroll down to Academic Program Transfer Information. Click on AGEC Course Matrix 2001.

The list identifies the courses in alpha-order by prefix as well as the different Core Areas and Awareness Areas where the course will apply. For purposes of clarifying requirements in the Mathematics and Natural Sciences areas on the list and on the AGEC requirements, an A, B, and/or S character may follow the [MA], [SQ], [SG] general education designations and refers to a specific AGEC.

|   | Credits   |
|---|-----------|
| <b>A. Core Areas:</b>   | <b>35</b> |
| 1. First-Year Composition (FYC)   | 6         |
| 2. Literacy and Critical Inquiry [L]  | 3         |
| 3. Mathematical Studies [MA/CS]   | 6         |
| To complete the Mathematical Studies requirement select one course to satisfy Mathematics [MA], and a second course from Computer/Statistics/Quantitative Applications [CS]. NOTE: The Mathematics [MA] requirement differs for AGEC A, AGEC B, and AGEC S. |           |

AGEC A requires;

- a. Mathematics [MA] A (3 credits)

AND

NOTE: requires a course in college mathematics or college algebra or pre-calculus or any other mathematics course for which college algebra is a prerequisite.

- b. Computer/Statistics/Quantitative Applications [CS] (3 credits)

AGEC B requires;

- a. Mathematics [MA] B (3 credits)

AND

NOTE: requires a course in brief calculus or a higher level mathematics course.

- b. Computer/Statistics/Quantitative Applications [CS] (3 credits)

AGEC S requires;

- a. Mathematics [MA] S (3 credits)

AND

NOTE: requires the first course in a calculus sequence or any mathematics course for which that course is a prerequisite.

- b. Computer/Statistics/Quantitative Applications [CS] (3 credits)

- 4. Humanities and Fine Arts [HU] 6

Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix. There is one exception. HUM250 & HUM251 will satisfy the Humanities and Fine Arts area requirement.

- 5. Social and Behavioral Sciences [SB] 6

Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix.

- 6. Natural Sciences [SQ/SG] 8

To complete the Natural Sciences requirement:

AGEC A and AGEC B require four (4) semester credits of [SQ] and four (4) semester credits of [SG] for a total of eight (8) semester credits, **OR** eight (8) semester credits of [SQ]. Students **cannot** take eight (8) semester credits of [SG] to meet the Natural Sciences requirement.

The Natural Sciences requirement [SQ/SG] differs for AGEC S. AGEC S requires eight (8) semester credits of either university chemistry or eight (8) semester credits of university physics or eight (8) semester credits of general biology appropriate to the major.

The courses selected for Natural Science must include or be accompanied by the corresponding laboratory course. When the lecture and corresponding laboratory receive separate credit, both will be counted as equivalent to **one** course in that prefix.

**B. Awareness Areas:**

Students must satisfy two Awareness areas: Cultural Diversity in United States [C] and either Global Awareness [G] or Historical Awareness [H]. However, it is not necessary for students to exceed thirty-five semester credits to complete any of the three MCCCD AGECS because courses can satisfy a Core area and one or two Awareness areas simultaneously. Therefore, no additional semester credits are required to satisfy the two Awareness areas.

- 1. Cultural Diversity in the United States [C]

AND

- 2. Global Awareness [G]

OR

- 3. Historical Awareness [H]

**AGEC Area Requirements Descriptions/Definitions**

**CORE AREAS**

- First-Year Composition (FYC) 6 credits

A total of six semester credits must be completed with a grade of “C” or better in the First-Year Composition Core area. Courses must emphasize skills necessary for college-level learning and writing skills.

- Literacy and Critical Inquiry [L] 3 credits

A total of three semester credits must be completed with a grade of “C” or better in the Literacy and Critical Inquiry

Arizona General Education Curriculum (AGEC), AGECE A, AGECE B, AGECE S

Core area. In the [L] course, typically at the sophomore level, students gather, interpret, and evaluate evidence and express their findings in writing or speech. This course includes a series of graded written or spoken formal assignments.

Literacy is defined broadly as communicative competence in written and oral discourse; critical inquiry is defined as the gathering, interpreting, and evaluating of evidence. Building on the proficiency attained in traditional First-Year Composition courses, the Literacy and Critical Inquiry requirement helps students sustain and extend their ability to reason critically and communicate clearly through language.

**Mathematical Studies** 6 credits  
A total of six semester credits must be completed with a grade of "C" or better in the Mathematical Studies Core Area. One course must be selected from Mathematics [MA]. A second course must be selected from Computer/Statistics/Quantitative Applications [CS].

The Mathematical Studies requirement is intended to ensure that students have skill in basic mathematics, can use mathematical analysis in their chosen fields, and can understand how computers make mathematical analysis more powerful and efficient.

First, the acquisition of essential skill in basic mathematics requires the student to complete a course in college algebra or to demonstrate a higher level of skill by completing a course for which college algebra is a prerequisite.

Second, the real-world application of mathematical reasoning requires the student to take a course in statistics or the use of quantitative analysis to solve problems of substance.

Third, the use of the computer to assist in serious analytical work is required. Computers are widely used to study the implications of social decisions or to model physical systems.

- **Mathematics [MA] AGECE A**  
The AGECE A Mathematics Core area requires a course in college mathematics, college algebra, pre-calculus, or any other mathematics course for which college algebra is a prerequisite.
- **Mathematics [MA] AGECE B**  
The AGECE B Mathematics Core area requires a course in Brief Calculus or a higher level mathematics course.
- **Mathematics [MA] AGECE S**  
The AGECE S Mathematics Core area requires the first course in the calculus sequence or any mathematics course for which that course is a prerequisite.
- **Computer/Statistics/Quantitative Applications [CS] AGECE A, B, and S [CS] option requires:** courses that emphasize the use of statistics or other mathematical methods in the interpretation of data and in describing and understanding quantitative relationships, courses that involve the use of computer programming languages or software in the development of skills in analytical thinking.

**Humanities and Fine Arts [HU]** 6 credits  
A total of six semester credits must be completed with a grade of "C" or better in the Humanities and Fine Arts Core area. Courses must be selected from at least two different prefixes with a minimum of three semester credits in each prefix. There is one exception. HUM250 and HUM251 together will satisfy the Humanities and Fine Arts requirement.

The Humanities and Fine Arts Core area enables students to broaden and deepen their consideration of basic human values and their interpretation of the experiences of human beings.

The humanities are concerned with questions of human existence and the universality of human life, questions of meaning and the nature of thinking and knowing, and questions of moral, aesthetic, and other human values. The humanities investigate these questions in both the present and the past and make use of philosophy, foreign languages, linguistics and communications studies, religious studies, literature, and fine arts.

The fine arts constitute the artist's creative deliberation about reality, meaning, knowledge, and values.

**Social and Behavioral Sciences [SB]** 6 credits  
A total of six semester credits must be completed with a grade of "C" or better in the Social and Behavioral Sciences Core area. Courses must be selected from at least two different prefixes with a minimum of three semester credits in each prefix.

The Social and Behavioral Sciences Core area provides scientific methods of inquiry and empirical knowledge about human behavior, both within society and within individuals. The forms of study may be cultural, economic, geographic, historical, linguistic, political, psychological, or social. The courses in this area address the challenge of understanding the diverse natures of individuals and cultural groups who live together in a world of diminishing economic, linguistic, military, political, and social distance.

**Natural Sciences [SQ/SG]** 8 credits  
A total of eight semester credits must be completed with a grade of "C" or better in the Natural Sciences Core area. The courses selected must include or be accompanied by the corresponding laboratory course. When the lecture and corresponding laboratory receive separate credit, both will be counted as equivalent to **one** course in that prefix.

Courses in the Natural Sciences Core area help the student to develop an appreciation of the scope and limitations of scientific capability to contribute to the quality of society. This Core area emphasizes knowledge of methods of scientific inquiry and mastery of basic scientific principles and concepts, in particular those that relate to matter and energy in living and non-living systems. Firsthand exposure to scientific phenomena in the laboratory is important in developing and understanding the concepts, principles, and vocabulary of science. At least one of the two laboratory courses required in the Natural Sciences Core area must include an introduction to the fundamental behavior of matter and energy in physical or biological systems.

Arizona General Education Curriculum (AGEC), AGECE A, AGECE B, AGECE S

- **Natural Sciences [SQ] A & B**  
The AGECE A and B Natural Sciences Core area requires one laboratory course in natural sciences that includes a substantial introduction to the fundamental behavior of matter and energy in physical or biological systems.
- **Natural Sciences [SG] A & B**  
The AGECE A and B Natural Sciences Core area requires a second laboratory course in the natural sciences, for example, from anthropology, astronomy, biology, chemistry, experimental psychology, geology, microbiology, physical anthropology, physical geography, physics, plant biology
- **Natural Sciences [SQ], [SG] S**  
The AGECE S Natural Sciences Core area requires eight semester credits of either university chemistry or eight semester credits of university physics or eight semester credits of general biology appropriate to the major.  
SQ = Natural Science-Quantitative  
SG = Natural Science-General

**Awareness Areas**

Students must satisfy two Awareness areas: Cultural Diversity in U.S. and either Global Awareness or Historical Awareness. Courses can satisfy a Core area and one or two Awareness areas simultaneously. Therefore, no additional semester credits are required to satisfy the two Awareness areas.

**Cultural Diversity in the United States [C]**

The contemporary “culture” of the United States involves the complex interplay of many different cultures that exist side by side in various states of harmony and conflict. U.S. history involves the experiences not only of different groups of European immigrants and their descendants, but also of diverse groups of American Indians, Hispanic Americans, African Americans and Asian Americans—all of whom played significant roles in the development of contemporary culture and together shape the future of the United States. At the same time, the recognition that gender, class, and religious differences cut across all distinctions of race and ethnicity offers an even richer variety of perspectives from which to view oneself. Awareness of cultural diversity and its multiple sources can illuminate the collective past, present, and future and can help to foster greater mutual understanding and respect.

The objective of the Cultural Diversity area requirement is to promote awareness of and appreciation for cultural diversity within the contemporary United States. This is accomplished through the study of the cultural, social, or scientific contributions of women and minority groups, examination of their experiences in the United States, or exploration of successful or unsuccessful interactions between and among cultural groups.

**Global Awareness [G]**

Human organizations and relationships have evolved from being family and village centered to the modern global interdependence that is apparent in many disciplines—for example, contemporary art, business, engineering, music, and the natural and social sciences. Many serious local and national problems are world issues that require solutions which exhibit mutuality and reciprocity. These problems occur in a wide variety of activities, such as food supply, ecology, health care delivery, language planning, information exchange, economic and social developments, law, technology transfer, and even philosophy and the arts. The Global Awareness Area recognizes the need for an understanding of the values, elements, and social processes of cultures other than the culture of the United States. The Global Awareness Area includes courses that recognize the nature of other contemporary cultures and the relationship of the American cultural system to generic human goals and welfare.

Courses that satisfy the global awareness option in the requirements are of one or more of the following types:

1. area studies that are concerned with an examination of culture-specific elements of a region of the world;
2. the study of a non-English language;
3. studies of international relationships, particularly those in which cultural change is facilitated by such factors as social and economic development, education, and the transfer of technology; and
4. studies of cultural interrelationships of global scope such as the global interdependence produced by problems of world ecology.

**Historical Awareness [H]**

The Historical Awareness Area option in the requirements aims to develop a knowledge of the past that can be useful in shaping the present and future. Because historical forces and traditions have created modern life and lie just beneath its surface, historical awareness is an aid in the analysis of present-day problems. Also, because the historical past is a source of social and national identity, historical study can produce intercultural understanding by tracing cultural differences to their origins. Even the remote past may have instructive analogies for the present.

The Historical Awareness Area consists of courses that are historical in method and content. In this area, the term “history” designates a sequence of past events or a narrative whose intent or effect is to represent such a sequence.

The requirement presumes that these are human events and that history includes all that has been felt, thought, imagined, said, and done by human beings. History is present in the languages, art, music, literature, philosophy, religion, and the natural sciences, as well as in the social science traditionally called history.

Courses That Can Be Used to Satisfy MCCCDC AGEC A, AGEC B, and/or AGEC S

## Courses That Can Be Used to Satisfy MCCCDC AGEC A, AGEC B and/or AGEC S

The course matrix lists single courses and the general studies area(s) satisfied by each course. Course combinations are also listed with the combinations connected by ampersands. The general studies area(s) satisfied by the combined courses is listed at the end of the combination.

For example, GLG110 as a single course satisfies the Global [G] Awareness area. GLG110 & GLG111 combined satisfy Natural Sciences [SG] in the Core Area.

Thus, if a student chooses to take the GLG110 & GLG111 combination, the student will satisfy [G] due to the successful completion of GLG110 and, in addition, will satisfy the [SG] general studies area by successfully completing the course combination of GLG110 and GLG111.

Please be aware of the following general studies policy that allows students to complete the Core and Awareness areas in the AGECS without exceeding 35 semester credits:

1. Courses can satisfy a Core area and one or two Awareness Areas simultaneously.
2. A course cannot be used to satisfy more than one Core Area requirement.

### The AGEC Course Matrix - General Studies Designations

| Area Satisfied | Course Number | Course Name & Credits                           |
|----------------|---------------|---|
| CS             | AGB139        | Agribusiness Computer Operations (3 cr.)        |
| SB, C          | AIS105        | Introduction to American Indian Studies (3 cr.) |
| C              | AIS141        | Sovereign Indian Nations (3 cr.)                |
| C              | AIS160        | American Indian Law (3 cr.)                     |
| SB             | AJS101        | Intro to Criminal Justice (3 cr.)               |
| CS             | AJS119        | Computer Applications Justice Studies (3 cr.)   |
| HU             | AJS123        | Ethics & Administration of Justice (3 cr.)      |
| SB             | AJS200        | Current Issues in Criminal Justice (3 cr.)      |

|              |        |  |
|--------------|--------|--|
| SB           | AJS258 | Domestic Problems & Crisis (3 cr.)                 |
| SB, C        | AJS270 | Community Relations (3 cr.)                        |
| G            | ARB201 | Intermediate Arabic I (4 cr.)                      |
| G            | ARB202 | Intermediate Arabic II (4 cr.)                     |
| HU           | ARH100 | Introduction to Art (3 cr.)                        |
| HU, H        | ARH101 | Prehistoric Through Gothic Art (3 cr.)             |
| HU, H        | ARH102 | Renaissance Through Contemporary Art (3 cr.)       |
| HU,          | ARH115 | History of Photography (3 cr.)                     |
| HU, G        | ARH118 | Intro To Chinese Art (3 cr.)                       |
| HU, G, H     | ARH201 | Art of Asia (3 cr.)                                |
| HU, H        | ARH217 | Mexican Art History (3 cr.)                        |
| SB, G        | ASB102 | Intro/Cultural & Social Anthropology (3 cr.)       |
| C, H         | ASB202 | Ethnic Relations in the United States (3 cr.)      |
| HU, SB, G    | ASB211 | Women in Other Cultures (3 cr.)                    |
| SB, G        | ASB214 | Magic, Witchcraft & Healing (3 cr.)                |
| HU, SB, G, H | ASB222 | Buried Cities & Lost Tribes (3 cr.)                |
| HU, SB, G, H | ASB223 | Buried Cities & Lost Tribes: New World (3 cr.)     |
| SB           | ASB230 | Principles of Archaeology (3 cr.)                  |
| SG-A&B       | ASB231 | Intro To Archaeological Field Methods (4 cr.)      |
| SB, C, H     | ASB235 | Southwest Archaeology (3 cr.)                      |
| SB, H        | ASB238 | Archaeology of North America (3 cr.)               |
| SB, C, H     | ASB245 | Indians Of The Southwest (3 cr.)                   |
| SB, H        | ASM101 | Human Origins & The Development Of Culture (3 cr.) |
| SG-A&B       | ASM265 | Laboratory Methods in Archaeology (4 cr.)          |
|              | AST101 | Survey of Astronomy (3 cr.)                        |
|              | AND    |  |
| SG-A&B       | AST102 | Survey of Astronomy Laboratory (1 cr.)             |

|     |   |      |   |        |   |
|-----|---|------|---|--------|---|
| C   | Cultural Diversity in the United States   | L    | Literacy and Critical Inquiry (As of Fall 2000 [L1] changed to [L]) | SG     | Natural Sciences (As of Fall 2000 [S2] changed to [SG]) |
| CS  | Computer/Statistics/Quantitative Applications (As of Fall 2000 [N2] and [N3] changed to [CS]) | MA   | Mathematical Studies (As of Fall 2000 [N1] changed to [MA])         | SG-A&B | Natural Sciences/AGEC A & AGEC B                        |
| FYC | First-Year Composition  | MA-A | Mathematical Studies/AGEC A   | SG-S   | Natural Sciences/AGEC S                                 |
| G   | Global Awareness  | MA-B | Mathematical Studies/AGEC B   | SQ     | Natural Sciences (As of Fall 2000 [S1] changed to [SQ]) |
| H   | Historical Awareness  | MA-C | Mathematical Studies/AGEC C   | SG-A&B | Natural Sciences/AGEC A & AGEC B                        |
| HU  | Humanities and Fine Arts  | SB   | Social and Behavioral Sciences                                      | SG-S   | Natural Sciences/AGEC S                                 |

Information subject to change. For a current update, go to [www.district.maricopa.edu/eddev/curric/ac/agecmatrix.html](http://www.district.maricopa.edu/eddev/curric/ac/agecmatrix.html) or call Student Services at 480-517-8540.



CERTIFICATES & DEGREES

Courses That Can Be Used to Satisfy MCCCD AGEC A, AGEC B, and/or AGEC S

|                               |          |  |  |                               |          |  |
|-------------------------------|----------|--|--|-------------------------------|----------|--|
|                               | AST111   | Intro. To Astronomy I (3 cr.)                          |  | C                             | CFS242   | Curriculum Planning for Diversity (3 cr.)              |
|                               | AND      |  |  |                               |          |  |
| SG-A&B,<br>SQ-A&B             | AST113   | Astronomy I Laboratory (1 cr.)                         |  | SB                            | CFS259   | Sexuality Over The Life Span (3 cr.)                   |
|                               | AST112   | Intro. To Astronomy II (3 cr.)                         |  | G                             | CHI201   | Intermediate Chinese I (5 cr.)                         |
|                               | AND      |  |  | G                             | CHI202   | Intermediate Chinese II (5 cr.)                        |
| SG-A&B,<br>SQ-A&B             | AST114   | Astronomy II Laboratory (1 cr.)                        |  | G                             | CHM107   | Chemistry & Society (3 cr.)                            |
| SG-A&B,<br>SQ-A&B             | BIO100   | Biology Concepts (4 cr.)                               |  |                               | CHM107   | Chemistry & Society (3 cr.)                            |
|                               |          |  |  |                               | AND      |  |
| SG-A&B,<br>SQ-A&B             | BIO101   | Gen Bio (Non-Majors) Selected Topics (4 cr.)           |  | SG-A&B,<br>SQ-A&B             | CHM107LL | Chemistry & Society Lab (1 cr.)                        |
| SG-A&B,<br>SQ-A&B             | BIO102   | Gen Bio (Non-Majors) Additional Topics (4 cr.)         |  |                               | CHM130   | Fundamental Chemistry (3 cr.)                          |
| SG-A&B,<br>SQ-A&B             | BIO105   | Environmental Biology (4 cr.)                          |  | SG-A&B,<br>SQ-A&B             | AND      |  |
| SG-A&B,<br>SQ-A&B             | BIO108   | Plants & Society (4 cr.)                               |  |                               | CHM130LL | Fundamental Chemistry Lab (1 cr.)                      |
|                               | BIO109   | Natural History of the Southwest (3 cr.)               |  |                               | CHM151   | General Chemistry I (3 cr.)                            |
|                               | AND      |  |  |                               | AND      |  |
| SG-A&B                        | BIO110   | Lab For Natural History Of The Southwest (1 cr.)       |  | SG-A&B, SG-S,<br>SQ-A&B, SQ-S | CHM151LL | General Chemistry I Lab (1 cr.)                        |
| SG-A&B                        | BIO156   | Human Biology for Allied Health (4 cr.)                |  |                               | CHM152   | General Chemistry II (3 cr.)                           |
|                               |          |  |  |                               | AND      |  |
| SG-A&B                        | BIO160   | Into To Human Anatomy & Physiology (4 cr.)             |  | SG-A&B, SG-S,<br>SQ-A&B, SQ-S | CHM152LL | General Chemistry II Lab (1 cr.)                       |
| SG-A&B, SG-S,<br>SQ-A&B, SQ-S | BIO181   | General Biology (Majors) I (4 cr.)                     |  |                               | CHM154   | General Chemistry II With Qual (3 cr.)                 |
| SG-A&B, SG-S                  | BIO182   | General Biology (Majors) II (4 cr.)                    |  |                               | AND      |  |
| SG-A&B                        | BIO183   | Marine Biology (4 cr.)                                 |  | SG-A&B,<br>SQ-A&B             | CHM154LL | General Chemistry II With Qual Lab (2 cr.)             |
| SG-A&B                        | BIO201   | Human Anatomy & Physiology I (4 cr.)                   |  |                               | CHM230   | Fundamental Organic Chemistry (3 cr.)                  |
| SG-A&B                        | BIO205   | Microbiology (4 cr.)                                   |  |                               | AND      |  |
| SG-A&B                        | BIO241   | Human Genetics (4 cr.)                                 |  | SG-A&B,<br>SQ-A&B             | CHM230LL | Fundamental Organic Chemistry Lab (1 cr.)              |
| CS                            | BPC110   | Computer Usage & Application (3 cr.)                   |  | CS                            | CIS105   | Survey Computer Info Systems (3 cr.)                   |
|                               | BPC110AA | Computer Usage (1 cr.)                                 |  | CS                            | CIS158   | COBOL Programming I (3 cr.)                            |
|                               | AND      |  |  | CS                            | CIS159   | Visual Basic Programming I (3 cr.)                     |
| CS                            | BPC110AB | Computer Applications (2 cr.)                          |  | CS                            | CIS162   | C Programming I (3 cr.)                                |
| CS                            | BPC217AA | Advanced Dbase (3 cr.)                                 |  | CS                            | CIS162AA | C: Level I (3 cr.)                                     |
| CS                            | BPC217AM | Advanced Microsoft Access: Database Management (3 cr.) |  | CS                            | CIS162AB | C++: Level I (3 cr.)                                   |
| L, C                          | CCS101   | Chicana and Chicano Studies (3 cr.)                    |  | CS                            | CIS162AC | Visual C++: Level I (3 cr.)                            |
| SB                            | CFS157   | Marriage & Family Life (3 cr.)                         |  | CS                            | CIS163AA | Java Programming: Level II (3 cr.)                     |
| SB                            | CFS159   | The Modern Family (3 cr.)                              |  | CS                            | CIS183AA | Microsoft Works (3 cr.)                                |
| SB                            | CFS176   | Child Development (3 cr.)                              |  | CS                            | CIS217AA | Advanced Dbase (3 cr.)                                 |
| SB                            | CFS205   | Human Development (3 cr.)                              |  | CS                            | CIS217AM | Advanced Microsoft Access: Database Management (3 cr.) |
|                               |          |  |  | CS                            | CIS262   | C Programming II (3 cr.)                               |
|                               |          |  |  | SB                            | COM100   | Intro To Human Communication (3 cr.)                   |

CERTIFICATES & DEGREES

Courses That Can Be Used to Satisfy MCCCD AGEC A, AGEC B, and/or AGEC S

|          |          |  |  |          |   |   |
|----------|----------|--|--|----------|---|---|
|          | COM100AA | Intro To Human Communication Part I (1 cr.)                  |  |          | CSC181AA  | Applied Problem Solving With Visual BASIC, CS (3 cr.) |
|          | AND      |  |  |          | CSC181AB  | Applied Problem Solving With Visual BASIC, CS (4 cr.) |
|          | COM100AB | Intro To Human Communication Part II (1 cr.)                 |  | CS       | CSC183  | Applied Problem Solving With Fortran (3 cr.)          |
|          | AND      |  |  | CS       | CSC200  | Principles Of Comp Science (JAVA) (3 cr.)             |
| SB       | COM100AC | Intro To Human Communication Part III (1 cr.)                |  | CS       | CSC200AA  | Principles Of Comp Science (JAVA) (3 cr.)             |
| SB       | COM110   | Interpersonal Communication (3 cr.)                          |  | CS       | CSC200AB  | Principles Of Comp Science (JAVA) (4 cr.)             |
|          | COM110AA | Interpersonal Communication Part I (1 cr.)                   |  | CS       | CSC210  | Data Structures & Algorithms (JAVA) (3 cr.)           |
|          | AND      |  |  | CS       | CSC210AA  | Data Structures & Algorithms (JAVA) (3 cr.)           |
|          | COM110AB | Interpersonal Communication Part II (1 cr.)                  |  | CS       | CSC210AB  | Data Structures & Algorithms (JAVA) (4 cr.)           |
|          | AND      |  |  | HU       | DAH100  | Intro To Dance (3 cr.)                                |
| SB       | COM110AC | Interpersonal Communication Part III (1 cr.)                 |  | L, HU, G | DAH201  | World Dance Perspectives (3 cr.)                      |
| L        | COM207   | Intro To Communication Inquiry (3 cr.)                       |  | CS       | DFT105  | Computer Aided Drafting I (3 cr.)                     |
| L        | COM222   | Argumentation (3 cr.)  |  | CS       | DFT253  | Computer Aided Drafting IIA (3 cr.)                   |
| L        | COM225   | Public Speaking (3 cr.)                                      |  | ECE102   | Engineering Analysis Tools and Techniques (2 cr.) |   |
| L, SB    | COM230   | Small Group Communication (3 cr.)                            |  | AND      |   |   |
| L, HU    | COM241   | Intro to Oral Interpretation (3 cr.)                         |  | CS       | ECE103  | Engineering Problem Solving and Design (3 cr.)        |
| SB       | COM250   | Intro To Organizational Communication (3 cr.)                |  | ECE102   | Engineering Analysis Tools and Techniques (2 cr.) |   |
| SB, C, G | COM263   | Elements of Intercultural Communication (3 cr.)              |  | AND      |   |   |
| C        | CPD160   | Intro To Multiculturalism (3 cr.)                            |  | CS       | ECE103AB  | Engineering Problem Solving and Design (3 cr.)        |
| L        | CRE101   | Critical & Evaluative Reading I (3 cr.)                      |  | ECE102AA | Engineering Analysis Tools and Techniques (2 cr.) |   |
| CS       | CSC100   | Introduction to Computer Science for Non-Comp Majors (3 cr.) |  | AND      |   |   |
| CS       | CSC100AA | Introduction to Computer Science for Non-Comp Majors (4 cr.) |  | CS       | ECE103  | Engineering Problem Solving and Design (3 cr.)        |
| CS       | CSC100AB | Introduction to Computer Science for Non-Comp Majors (4 cr.) |  | ECE102AA | Engineering Analysis Tools and Techniques (2 cr.) |   |
| CS       | CSC150   | Programming in C/C++ (3 cr.)                                 |  | AND      |   |   |
| CS       | CSC150AA | Programming in C/C++ (4 cr.)                                 |  | CS       | ECE103AB  | Engineering Problem Solving and Design (3 cr.)        |
|          | CSC181   | Applied Problem Solving With Visual BASIC, CS (3 cr.)        |  | SB       | ECH176  | Child Development (3 cr.)                             |

C Cultural Diversity in the United States

CS Computer/Statistics/Quantitative Applications (As of Fall 2000 [N2] and [N3] changed to [CS])

FYC First-Year Composition

G Global Awareness

H Historical Awareness

HU Humanities and Fine Arts

L Literacy and Critical Inquiry (As of Fall 2000 [L1] changed to [L])

MA Mathematical Studies (As of Fall 2000 [N1] changed to [MA])

MA-A Mathematical Studies/AGEC A

MA-B Mathematical Studies/AGEC B

MA-C Mathematical Studies/AGEC C

SB Social and Behavioral Sciences

SG Natural Sciences (As of Fall 2000 [S2] changed to [SG])

SG-A&B Natural Sciences/AGEC A & AGEC B

SG-S Natural Sciences/AGEC S

SQ Natural Sciences (As of Fall 2000 [S1] changed to [SQ])

SQ-A&B Natural Sciences/AGEC A & AGEC B

SG-S Natural Sciences/AGEC S

Information subject to change. For a current update, go to [www.district.maricopa.edu/eddev/curric/ac/agecmatrix.html](http://www.district.maricopa.edu/eddev/curric/ac/agecmatrix.html) or call Student Services at 480-517-8540.

Courses That Can Be Used to Satisfy MCCCD AGEC A, AGEC B, and/or AGEC S

|       |        |  |          |          |  |
|-------|--------|--|----------|----------|--|
| SB    | ECN111 | Macroeconomic Principles (3 cr.)                 | HU, G, H | ENH202   | World Literature After Renaissance (3 cr.)   |
| SB    | ECN112 | Microeconomic Principles (3 cr.)                 |          |          |  |
| SB, H | ECN160 | Economic History Of United States (3 cr.)        | HU       | ENH204   | Intro to Contemporary Literature (3 cr.)   |
| SB, G | ECN212 | The World Economy (3 cr.)                        | HU       | ENH206   | Nature & Environmental Literature (3 cr.)  |
| SB, G | ECN250 | World Economic Systems (3 cr.)                   | HU       | ENH214   | Poetry Study (3 cr.)   |
| SB    | EDU221 | Introduction To Education (3 cr.)                | HU, H    | ENH221   | Survey Of English Lit Before 1800 (3 cr.)  |
| SB, C | EDU222 | Intro to Special Education (3 cr.)               | HU, H    | ENH222   | Survey Of English Lit After 1800 (3 cr.)   |
| C     | EDU225 | Foundations of ESL & Bilingual Education (3 cr.) |          |          |  |
| C     | EDU230 | Cultural Diversity In Education (3 cr.)          | HU       | ENH230   | Intro to Shakespeare (3 cr.)   |
| C     | EDU235 | Mexican-American Child In Classroom (3 cr.)      | HU,      | ENH241   | American Literature Before 1860 (3 cr.)  |
| HU    | EDU291 | Children's Literature (3 cr.)                    | HU,      | ENH242   | American Literature After 1860 (3 cr.)   |
| HU, C | EDU292 | The Art Of Storytelling (3 cr.)                  | HU       | ENH250   | Classical Backgrounds In Literature (3 cr.)  |
| HU, C | EDU294 | Folkloric Awareness (3 cr.)                      |          |          |  |
| CS    | ELE150 | Digital Systems/Microprocessors (4 cr.)          | HU, G    | ENH251   | Mythology (3 cr.)  |
| CS    | ELT241 | Microcontrollers (4 cr.)                         | L, HU    | ENH254   | Literature & Film (3 cr.)  |
| CS    | ELT282 | Structured Assembly Lang Programming (4 cr.)     | L, HU, C | ENH255*  | Contemporary US Literature & Film (3 cr.)<br>*Note: ENH255* General Studies designation effective Spring 2001. |
| FYC   | ENG101 | First-Year Composition (3 cr.)                   |          |          |  |
| FYC   | ENG102 | First-Year Composition (3 cr.)                   | HU       | ENH256   | Shakespeare on Film (3 cr.)  |
| FYC   | ENG107 | Eng For Speakers Of Other Languages (3 cr.)      | HU, C    | ENH259   | American Indian Literature (3 cr.)   |
| FYC   | ENG108 | Eng For Speakers Of Other Languages (3 cr.)      | HU, C    | ENH260   | Literature of the Southwest (3 cr.)  |
| L     | ENG111 | Technical Writing (3 cr.)                        | HU       | ENH270   | 19h Century American Fiction (3 cr.)   |
| L, HU | ENG200 | Reading & Writing About Literature (3 cr.)       | HU       | ENH275   | Modern Fiction (3 cr.)   |
| L     | ENG213 | Introduction to The Study of Language (3 cr.)    | HU, C    | ENH284   | 19th Century Women Writers (3 cr.)   |
| L     | ENG215 | Strategies Of Academic Writing (3 cr.)           | HU, C    | ENH285   | Contemporary Women Writers (3 cr.)   |
| L     | ENG216 | Persuasive Writing On Public Issues (3 cr.)      | HU       | ENH289   | Literature from Contemporary Nobel Laureates (3 cr.)   |
| L     | ENG217 | Personal & Exploratory Writing (3 cr.)           | HU       | ENH291   | Children's Literature (3 cr.)  |
| L     | ENG218 | Writing About Literature (3 cr.)                 | HU, C    | ENH294   | Folkloric Awareness (3 cr.)  |
| HU    | ENG260 | Film Analysis (3 cr.)                            | G        | FRE201   | Intermediate French I (4 cr.)  |
| HU    | ENH110 | Intro to Literature (3 cr.)                      | G        | FRE201AA | Intermediate French I (4 cr.)  |
| HU, C | ENH112 | Chicano Literature (3 cr.)                       | G        | FRE202   | Intermediate French II (4 cr.)   |
| HU    | ENH113 | Writers & Current Issues (3 cr.)                 | G        | FRE202AA | Intermediate French II (4 cr.)   |
| HU, C | ENH114 | African-American Literature (3 cr.)              | HU, G    | FRE265   | Advanced French I (3 cr.)  |
| HU, H | ENH201 | World Literature Through Renaissance (3 cr.)     | HU, G    | FRE266   | Advanced French II (3 cr.)   |
|       |        |  | CS       | GBS221   | Business Statistics (3 cr.)  |
|       |        |  | L        | GBS233   | Business Communication (3 cr.)   |

CERTIFICATES & DEGREES

Courses That Can Be Used to Satisfy MCCCD AGEC A, AGEC B, and/or AGEC S

|                   |          |  |                   |          |   |                                   |
|-------------------|----------|--|-------------------|----------|---|-----------------------------------|
| SB                | GBS280   | Organizational Psychology (3 cr.)                  |                   | GPH112   | Intro to Physical Geography (3 cr.)   |                                   |
| SB, G             | GCU102   | Intro to Human Geography (3 cr.)                   |                   | AND      |   |                                   |
| SB, G             | GCU121   | World Geography: Eastern Hemisphere (3 cr.)        | SG-A&B,<br>SQ-A&B | GPH113   | Intro to Physical Geography Lab (1 cr.)   |                                   |
| SB, G             | GCU122   | World Geography: Western Hemisphere (3 cr.)        | G                 | GPH210   | Physical Environment (3 cr.)  |                                   |
| SB, G             | GCU141   | Intro to Economic Geography (3 cr.)                | L                 | GPH211   | Landform Processes (3 cr.)  |                                   |
| SB, G             | GCU221   | Arizona Geography (3 cr.)                          |                   | GPH212   | Intro to Meteorology I (3 cr.)  |                                   |
| SB, G             | GCU253   | Intro/Cultural & Historical Geography (3 cr.)      | SG-A&B            | AND      |   |                                   |
| G                 | GER201   | Intermediate German I (4 cr.)                      |                   | GPH214   | Intro to Meteorology Lab I (1 cr.)  |                                   |
| G                 | GER201AA | Intermediate German I (4 cr.)                      | CS                | GPH217   | Intro/Geographic Information Systems (3 cr.)  |                                   |
| G                 | GER202   | Intermediate German II (4 cr.)                     | CS                | GPH219   | Introduction to Arc View (3 cr.)  |                                   |
| G                 | GER202AA | Intermediate German II (4 cr.)                     | HU                | HCR210   | Clinical Health Care Ethics (3 cr.)   |                                   |
| G                 | GLG101   | Intro to Geology I-Physical Lecture (3 cr.)        |                   | L        | HCR220  | Health Care Organizations (3 cr.) |
|                   | GLG101   | Intro to Geology I-Physical Lecture (3 cr.)        | C*, G             | HCR230*  | Culture and Health (3 cr.)<br><i>*Note: HCR230*[C] General Studies designation effective Spring 2001.</i> |                                   |
|                   | AND      |  | G                 | HEB201   | Intermediate Hebrew I (4 cr.)   |                                   |
| SG-A&B,<br>SQ-A&B | GLG103   | Intro to Geology I-Physical Lab (1 cr.)            | G                 | HEB202   | Intermediate Hebrew II (4 cr.)  |                                   |
| H                 | GLG102   | Intro to Geology II-Historical Lecture (3 cr.)     | SB                | HES100*  | Healthful Living (3 cr.)<br><i>*Note: HES100* General Studies designation effective Spring 2001.</i>      |                                   |
|                   | GLG102   | Intro to Geology II-Historical Lecture (3 cr.)     | SB, H             | HIS100   | History Western Civilization to Middle Ages (3 cr.)   |                                   |
|                   | AND      |  | SB, H             | HIS101   | History Western Civilization/Middle Ages-1789 (3 cr.)   |                                   |
| SG-A&B            | GLG104   | Intro to Geology II-Historical Lab (1 cr.)         | SB, G, H          | HIS102   | History Western Civilization 1789 to Present (3 cr.)  |                                   |
| SG-A&B            | GLG105   | Intro to Planetary Science (4 cr.)                 | SB, H             | HIS103   | United States History to 1870 (3 cr.)   |                                   |
| G                 | GLG110   | Geologic Disasters and the Environment (3 cr.)     | SB, H             | HIS104   | United States History 1870 to Present (3 cr.)   |                                   |
|                   | GLG110   | Geologic Disasters and the Environment (3 cr.)     | SB, H             | HIS105   | Arizona History (3 cr.)   |                                   |
|                   | AND      |  |                   | HIS105AA | Arizona History Part I (1 cr.)  |                                   |
| SG-A&B            | GLG111   | Geologic Disasters and the Environment Lab (1 cr.) |                   | AND      |   |                                   |
| SG-A&B,<br>SQ-A&B | GPH111   | Intro to Physical Geography (4 cr.)                |                   | HIS105AB | Arizona History Part II (1 cr.)   |                                   |
|                   |          |  |                   | AND      |   |                                   |
|                   |          |  | SB, H             | HIS105AC | Arizona History Part III (1 cr.)  |                                   |
|                   |          |  | SB, C, H          | HIS106   | Southwest History (3 cr.)   |                                   |

|     |   |      |   |        |   |
|-----|---|------|---|--------|---|
| C   | Cultural Diversity in the United States   | L    | Literacy and Critical Inquiry (As of Fall 2000 [L1] changed to [L]) | SG     | Natural Sciences (As of Fall 2000 [S2] changed to [SG]) |
| CS  | Computer/Statistics/Quantitative Applications (As of Fall 2000 [N2] and [N3] changed to [CS]) | MA   | Mathematical Studies (As of Fall 2000 [N1] changed to [MA])         | SG-A&B | Natural Sciences/AGEC A & AGEC B                        |
| FYC | First-Year Composition  | MA-A | Mathematical Studies/AGEC A   | SG-S   | Natural Sciences/AGEC S                                 |
| G   | Global Awareness  | MA-B | Mathematical Studies/AGEC B   | SQ     | Natural Sciences (As of Fall 2000 [S1] changed to [SQ]) |
| H   | Historical Awareness  | MA-C | Mathematical Studies/AGEC C   | SG-A&B | Natural Sciences/AGEC A & AGEC B                        |
| HU  | Humanities and Fine Arts  | SB   | Social and Behavioral Sciences                                      | SG-S   | Natural Sciences/AGEC S                                 |

*Information subject to change. For a current update, go to [www.district.maricopa.edu/eddev/curric/ac/agecmatrix.html](http://www.district.maricopa.edu/eddev/curric/ac/agecmatrix.html) or call Student Services at 480-517-8540.*

Courses That Can Be Used to Satisfy MCCC AGEC A, AGEC B, and/or AGEC S

|  |          |  |          |          |  |
|--|----------|--|----------|----------|--|
| SB, C, H   | HIS109   | Mexican American History & Culture (3 cr.)                 | HU       | HUM190AD | Honors Forum (1 cr.)                               |
| SB, H  | HIS135   | History of Mexico (3 cr.)                                  | HU       | HUM190AE | Honors Forum (1 cr.)                               |
| SB, G, H   | HIS145   | History of Mexico (3 cr.)                                  | HU       | HUM190AF | Honors Forum (1 cr.)                               |
| SB, H  | HIS173   | United States Military History (3 cr.)                     | HU       | HUM190AG | Honors Forum (1 cr.)                               |
| SB, C, H   | HIS201   | History of Women in America (3 cr.)                        | HU       | HUM190AH | Honors Forum (1 cr.)                               |
| SB, C, H   | HIS203   | African-American History (3 cr.)                           | HU       | HUM190AI | Honors Forum (1 cr.)                               |
| SB, C, H   | HIS209   | The Chicano in 20th Century America (3 cr.)                | HU, G    | HUM201   | Humanities: Universal Themes (3 cr.)               |
| SB, H  | HIS241   | Latin America Civilization in the Colonial Period (3 cr.)  | HU, G    | HUM202   | Humanities: Universal Themes (3 cr.)               |
| SB, G, H   | HIS242   | Latin America Civilization Post-Colonial Period (3 cr.)    | HU       | HUM203   | Hum: Intellectual Community/Legal Ethics (4 cr.)   |
| HU, G, H   | HIS243   | World Religions (3 cr.)                                    | HU       | HUM205   | Intro to Cinema (3 cr.)                            |
| SB, H  | HIS251   | History of England to 1700 (3 cr.)                         | HU       | HUM206   | Intro to Television Arts (3 cr.)                   |
| SB, H  | HIS252   | History of England 1700 to Present (3 cr.)                 | HU       | HUM207   | Humanities: Biomedical Ethics (3 cr.)              |
| SB, G, H   | HIS272   | History of the Far East 1900 to Present (3 cr.)            | HU, C    | HUM208   | Arts & World Views of the Southwest (3 cr.)        |
| SB, G, H   | HIS273   | US Experience in Vietnam 1945-1975 (3 cr.)                 | HU, H    | HUM209   | Women & Films (3 cr.)                              |
| SB, G, H   | HIS277   | The Modern Middle East (3 cr.)                             | HU       | HUM210   | Contemporary Cinema (3 cr.)                        |
| HU   | HUM101   | General Humanities (3 cr.)                                 | HU, G    | HUM211AA | Foreign Films: Classics (3 cr.)                    |
| <p><i>Note: Three (3) of the five (5) HUM105 modules must be taken to secure [HU, C] credit.</i></p> |          |  | HU, G    | HUM211AB | Foreign Films: Japanese (3 cr.)                    |
| HU, C  | HUM105AA | Cultural Perspective: African Ideas/Values (1 cr.)         | HU, G    | HUM211AC | Foreign Films: French (3 cr.)                      |
| HU, C  | HUM105AB | Cultural Perspective: Native-American Ideas/Values (1 cr.) | HU, G    | HUM213   | Hispanic Film (3 cr.)                              |
| HU, C  | HUM105AC | Cultural Perspective: Asian Ideas/Values (1 cr.)           | L, HU, H | HUM250   | Ideas & Values in the Humanities (3 cr.)           |
| HU, C  | HUM105AD | Cultural Perspective: Hispanic Ideas/Values (1 cr.)        | L, HU, H | HUM251   | Ideas & Values in the Humanities (3 cr.)           |
| HU, C  | HUM105AE | Cultural Perspective: Mid-Eastern Ideas/Values (1 cr.)     | HU, C    | HUM260   | Intercultural Perspectives (3 cr.)                 |
| HU   | HUM107   | Humanities Through the Arts (3 cr.)                        | HU, G, H | HUM261   | Asian Ideas & Values (3 cr.)                       |
| HU   | HUM108   | Contemporary Humanities (3 cr.)                            | HU, C    | HUM292   | The Art of Storytelling (3 cr.)                    |
| HU, C  | HUM120   | Cultural Viewpoints in the Arts (3 cr.)                    | SB, G    | IBS109   | Cultural Dimensions of International Trade (3 cr.) |
| HU   | HUM125   | The Urban Experience (3 cr.)                               | L        | IGS290   | Integrated Studies (3 cr.)                         |
| <p><i>Note: Three (3) of the nine (9) HUM190 modules must be taken to secure [HU] credit.</i></p>    |          |  | L, G     | IGS291   | Studies in Global Awareness (3 cr.)                |
| HU   | HUM190AA | Honors Forum (1 cr.)                                       | C        | IGS292   | Studies in Cultural Diversity (3 cr.)              |
| HU   | HUM190AB | Honors Forum (1 cr.)                                       | L, H     | IGS293   | Studies in Historical Awareness (3 cr.)            |
| HU   | HUM190AC | Honors Forum (1 cr.)                                       | HU, H    | INT115   | Historical Architecture & Furniture (3 cr.)        |
|  |          |  | HU, H    | INT120   | 20th Century Architecture & Furniture (3 cr.)      |
|  |          |  | HU       | INT225   | History of Decorative Arts (3 cr.)                 |
|  |          |  | G        | ITA201   | Intermediate Italian I (4 cr.)                     |
|  |          |  | G        | ITA201AA | Intermediate Italian I (4 cr.)                     |

CERTIFICATES & DEGREES

Courses That Can Be Used to Satisfy MCCC AGEC A, AGEC B, and/or AGEC S

|                  |                            |  |                  |          |   |
|------------------|----------------------------|--|------------------|----------|---|
| G                | ITA202                     | Intermediate Italian II (4 cr.)                              | MA-A, MA-B, MA-S | MAT230   | Analytic Geometry & Calculus II (5 cr.)   |
| G                | ITA202AA                   | Intermediate Italian II (4 cr.)                              |                  |          |   |
| CS               | JAS225                     | Statistics for Social Research/ Justice & Government (3 cr.) | MA-A, MA-B, MA-S | MAT231   | Calculus With Analytic Geometry II (4 cr.)  |
| G                | JPN201                     | Intermediate Japanese I (5 cr.)                              | MA-A, MA-B       | MAT236   | Technical Calculus III (3 cr.)  |
| G                | JPN202                     | Intermediate Japanese II (5 cr.)                             | MA-A, MA-B, MA-S | MAT241   | Calc Analytic Geometry III (4 cr.)  |
| L                | JRN201                     | Newswriting (3 cr.)  | MA-A, MA-B       | MAT262   | Differential Equations (3 cr.)  |
| L                | JRN212                     | Broadcast Writing (3 cr.)                                    | SB               | MC0120   | Media & Society (3 cr.)   |
| HU               | LAT201                     | Intermediate Latin I (4 cr.)                                 | L, C             | MC0220   | Cultural Diversity & The Media (3 cr.)  |
| HU               | LAT202                     | Intermediate Latin II (4 cr.)                                |                  |          |   |
| MA-A             | MAT142                     | College Mathematics (3 cr.)                                  | HU, H            | MHL141   | Appreciations & Lit of Music to 1800 (3 cr.)  |
| MA-A             | MAT150                     | College Algebra Concepts (5 cr.)                             |                  |          |   |
| MA-A             | MAT151                     | College Algebra/Functions (4 cr.)                            | HU, H            | MHL142   | Appreciations & Lit of Music 1800 to Present (3 cr.)  |
|                  | MAT151AA                   | College Algebra/Intro to Functions I (1 cr.)                 | HU, G*           | MHL143*  | Music in World Cultures (3 cr.)<br>*Note: MHL143 [G] General Studies designation effective Spring 2001. |
|                  | AND                        |  |                  |          |   |
|                  | MAT151AB                   | College Algebra/Intro to Functions II (1 cr.)                |                  |          |   |
|                  | AND                        |  |                  |          |   |
|                  | MAT151AC                   | College Algebra/Systems of Equations (1 cr.)                 | HU               | MHL145   | American Ja & Popular Music (3 cr.)   |
|                  | AND                        |  |                  |          |   |
| MA-A             | MAT151AD                   | College Algebra/Selected Topics (1 cr.)                      | HU               | MHL146   | Survey of Broadway Musicals (3 cr.)   |
| MA-A             | MAT152                     | College Algebra (3 cr.)                                      | HU               | MHL147   | Music of African-American Cultures (3 cr.)  |
| MA-A             | MAT162                     | University Mathematics (3 cr.)                               | HU               | MHL153   | Rock Music & Culture (3 cr.)  |
| CS               | MAT167                     | Elements of Statistics (3 cr.)                               | HU               | PHI101   | Intro to Philosophy (3 cr.)   |
| MA-A             | MAT172                     | Finite Mathematics (3 cr.)                                   | HU               | PHI102   | Intro to Philosophy (3 cr.)   |
|                  | MAT150 OR MAT151 OR MAT152 |  | L, HU            | PHI103   | Intro to Logic (3 cr.)  |
|                  | AND                        |  |                  |          |   |
| MA-A             | MAT182                     | Plane Trigonometry (3 cr.)                                   | HU               | PHI105   | Intro to Ethics (3 cr.)   |
| MA-A             | MAT187                     | Pre-Calculus (5 cr.)   | L, HU            | PHI106   | Critical Thinking (3 cr.)   |
| MA-A, MA-B       | MAT212                     | Brief Calculus (3 cr.)                                       | HU               | PHI109   | Philosophy of the Arts (3 cr.)  |
| MA-A, MA-B       | MAT216                     | Technical Calculus I (3 cr.)                                 | HU               | PHI213   | Medical & Bio-Ethics (3 cr.)  |
| MA-A, MA-B, MA-S | MAT220                     | Analytic Geometry & Calculus I (5 cr.)                       | HU               | PHI218   | Philosophy of Sexuality (3 cr.)   |
| MA-A, MA-B, MA-S | MAT221                     | Calculus With Analytic Geometry I (4 cr.)                    | HU               | PHI224   | Political Philosophy (3 cr.)  |
| MA-A, MA-B       | MAT225                     | Elementary Linear Algebra (3 cr.)                            | L, HU, C         | PHI225   | African-American Religions (3 cr.)  |
| MA-A, MA-B       | MAT226                     | Technical Calculus II (3 cr.)                                | HU               | PHI233AA | Metaphysics: An Introduction (3 cr.)  |
| MA-A, MA-B       | MAT227                     | Discrete Mathematical Structures (3 cr.)                     | HU               | PHI233AB | Theory of Knowledge (3 cr.)   |
|                  |                            |  | HU               | PHI234AA | Plato (3 cr.)   |

|     |   |      |   |        |   |
|-----|---|------|---|--------|---|
| C   | Cultural Diversity in the United States   | L    | Literacy and Critical Inquiry (As of Fall 2000 [L1] changed to [L]) | SG     | Natural Sciences (As of Fall 2000 [S2] changed to [SG]) |
| CS  | Computer/Statistics/Quantitative Applications (As of Fall 2000 [N2] and [N3] changed to [CS]) | MA   | Mathematical Studies (As of Fall 2000 [N1] changed to [MA])         | SG-A&B | Natural Sciences/AGEC A & AGEC B                        |
| FYC | First-Year Composition  | MA-A | Mathematical Studies/AGEC A   | SG-S   | Natural Sciences/AGEC S                                 |
| G   | Global Awareness  | MA-B | Mathematical Studies/AGEC B   | SQ     | Natural Sciences (As of Fall 2000 [S1] changed to [SQ]) |
| H   | Historical Awareness  | MA-C | Mathematical Studies/AGEC C   | SG-A&B | Natural Sciences/AGEC A & AGEC B                        |
| HU  | Humanities and Fine Arts  | SB   | Social and Behavioral Sciences                                      | SG-S   | Natural Sciences/AGEC S                                 |

Information subject to change. For a current update, go to [www.district.maricopa.edu/eddev/curric/ac/agecmatrix.html](http://www.district.maricopa.edu/eddev/curric/ac/agecmatrix.html) or call Student Services at 480-517-8540.

Courses That Can Be Used to Satisfy MCCC AGEC A, AGEC B, and/or AGEC S

|                            |        |   |           |          |   |
|----------------------------|--------|---|-----------|----------|---|
| HU, G, H                   | PHI243 | World Religions (3 cr.)   | SB        | PSY218   | Health Psychology (3 cr.)   |
| HU                         | PHI244 | Philosophy of Religion (3 cr.)                                      | CS        | PSY230   | Intro to Statistics (3 cr.)   |
| HU                         | PHI245 | Intro to Eastern Philosophy (3 cr.)                                 | SB, C     | PSY235   | Psychology of Gender Differences (3 cr.)  |
| HU                         | PHI246 | American Indian Euro-American Comparative Worldview (3 cr.)         | SB        | PSY240   | Developmental Psychology (3 cr.)  |
| SG-A&B, SQ-A&B             | PHS110 | Fundamentals of Physical Science (4 cr.)                            | SB        | PSY245   | Psychology of Adult Development (3 cr.)   |
| SG-A&B, G SQ-A&B           | PHS120 | Intro to Physical Science (4 cr.)                                   | SB        | PSY250   | Social Psychology (3 cr.)   |
| SG-A&B, SQ-A&B             | PHY101 | Intro to Physics (4 cr.)  | SB        | PSY258   | Domestic Problems & Crisis (3 cr.)  |
| SG-A&B, SQ-A&B             | PHY101 | Intro to Physics (4 cr.)  | SB        | PSY260   | Personality Development (3 cr.)   |
| SG-A&B, SQ-A&B             | PHY111 | General Physics I (4 cr.)   | SB        | PSY266   | Abnormal Psychology (3 cr.)   |
| SG-A&B, SQ-A&B             | PHY111 | General Physics I (4 cr.)   | SB        | PSY270   | Personal & Social Adjustment (3 cr.)  |
| SG-A&B, SQ-A&B             | PHY112 | General Physics II (4 cr.)  | SB        | PSY277   | Psychology of Human Sexuality (3 cr.)   |
| SG-A&B, SG-S, SQ-A&B, SQ-S | PHY115 | University Physics I (5 cr.)  | SB        | PSY280   | Organizational Psychology (3 cr.)   |
| SG-A&B, SG-S, SQ-A&B, SQ-S | PHY116 | University Physics II (5 cr.)                                       | SB        | PSY281   | Human Factors (3 cr.)   |
| SG-A&B, SG-S, SQ-A&B, SQ-S | PHY121 | University Physics I: Mechanics (4 cr.)                             | L, SG-A&B | PSY290AB | Research Methods (4 cr.)  |
| SG-A&B, SG-S, SQ-A&B, SQ-S | PHY121 | University Physics I: Mechanics (4 cr.)                             | L, SG-A&B | PSY290AC | Research Methods (4 cr.)  |
| SG-A&B, SG-S, SQ-A&B, SQ-S | PHY131 | University Physics II: Electricity & Magnetism (4 cr.)              | SB        | PSY292   | Psychology of Altered States of Consciousness (3 cr.)   |
| SG-A&B, SQ-A&B             | PHY252 | Uni Physics III: Thermo Dynamics, Optics and Wave Phenomena (4 cr.) | SB        | REC120   | Leisure & The Quality of Life (3 cr.)   |
| G                          | POR102 | Elementary Portuguese II (5 cr.)                                    | SB        | REC160   | Leisure & Society (3 cr.)   |
| G                          | POR201 | Intermediate Portuguese I (5 cr.)                                   | HU        | REL101   | Intro to Religion (3 cr.)   |
| G                          | POR202 | Intermediate Portuguese II (5 cr.)                                  | HU, H     | REL201   | Classics of Western Religions (3 cr.)   |
| SB                         | POS100 | Intro to Political Science (3 cr.)                                  | HU, G     | REL202   | Classics of Asian Religions (3 cr.)   |
| SB                         | POS110 | American National Government (3 cr.)                                | L, HU, C  | REL203   | American Indian Religions (3 cr.)   |
| L, SB                      | POS115 | Issues in American Politics (3 cr.)                                 | L, HU     | REL205   | Religion and the Modern World (3 cr.)   |
| SB, G                      | POS120 | World Politics (3 cr.)  | HU        | REL213   | Medical & Bio-Ethics (3 cr.)  |
| SB, G                      | POS125 | Issues in World Politics (3 cr.)                                    | L, HU, C  | REL225   | African-American Religions (3 cr.)  |
| SB                         | POS130 | State & Local Government (3 cr.)                                    | HU, G, H  | REL243   | World Religions (3 cr.)   |
| SB, G                      | POS140 | Comparative Government (3 cr.)                                      | HU        | REL244   | Philosophy of Religion (3 cr.)  |
| G                          | POS180 | United Nations Study (3 cr.)  | HU        | REL246   | American Indian Euro-American Comparative Worldview (3 cr.)                                   |
| SB                         | POS210 | Political Ideologies (3 cr.)  | HU        | REL270   | Introduction to Christianity (3 cr.)  |
| SB                         | POS285 | Public Policy (3 cr.)   | G         | REL290*  | Women & Religion (3 cr.)<br>*Note: REL290* General Studies designation effective Spring 2001. |
| SB                         | PSY101 | Intro to Psychology (3 cr.)   | G         | RUS201   | Intermediate Russian (4 cr.)  |
| SB, G                      | PSY132 | Psychology & Culture (3 cr.)  | G         | RUS201AA | Intermediate Russian (4 cr.)  |
| C                          | PSY143 | Lesbian, Gay and Bisexual Studies (3 cr.)                           |           |          |   |
| SB, C, G                   | PSY157 | African/Black Psychology (3 cr.)                                    |           |          |   |
| SB                         | PSY215 | Intro to Sport Psychology (3 cr.)                                   |           |          |   |

Courses That Can Be Used to Satisfy MCCC AGEC A, AGEC B, and/or AGEC S

|       |          |  |       |         |  |
|-------|----------|--|-------|---------|--|
| G     | RUS202   | Intermediate Russian (4 cr.)                     | HU, G | SPH151  | Latin American Lit in Translation (3 cr.)  |
| G     | RUS202AA | Intermediate Russian (4 cr.)                     | HU, C | SPH245  | Hispanic in the Southwest (3 cr.)  |
| SB, G | SBU200   | Society and Business (3 cr.)                     | SB, H | SWU102  | Introduction to Social Work (3 cr.)  |
| CS    | SMT150   | Digital Systems and Microprocessors (4 cr.)      | SB, H | SWU271  | Introduction to Social Welfare (3 cr.)   |
| SB    | SOC101   | Intro to Sociology (3 cr.)                       | HU    | TCM145  | Intro to Motion Picture Production (3 cr.)   |
| SB    | SOC110   | Intro to Sociology (3 cr.)                       | SB    | TEC105  | Clothing Selection (3 cr.)   |
| SB, C | SOC140   | Racial & Ethics Minorities (3 cr.)               | SB    | TEC106  | History of Fashion (3 cr.)   |
| C     | SOC141   | Sovereign Indian Nations (3 cr.)                 | HU    | THE111  | Intro to Theatre (3 cr.)   |
| SB, C | SOC142   | Sociology of the Chicano Community (3 cr.)       | HU    | THE205  | Intro to Cinema (3 cr.)  |
| SB, C | SOC143   | Sociology of the Afro-American Problems (3 cr.)  | HU    | THE206  | Intro to Television Arts (3 cr.)   |
| SB    | SOC157   | Sociology of Marriage & Family (3 cr.)           | HU    | THE210  | Contemporary Cinema (3 cr.)  |
| C     | SOC160   | American Indian Law (3 cr.)                      | L, HU | THE220  | Modern Drama (3 cr.)   |
| SB    | SOC210   | The Child in Society (3 cr.)                     | HU    | THE260  | Film Analysis (3 cr.)  |
| SB, C | SOC212   | Women & Men in a Changing Society (3 cr.)        | L, HU | THP241  | Intro to Oral Interpretation (3 cr.)   |
| SB    | SOC215   | Sociology of Adolescence (3 cr.)                 | SB    | WED100* | Personal Wellness (3 cr.)<br>*Note: WED100* General Studies designation effective Spring 2001.                           |
| SB    | SOC245   | Social Deviance (3 cr.)                          | SB    | WED110* | Principles of Physical Fitness and Wellness (3 cr.)<br>*Note: WED110* General Studies designation effective Spring 2001. |
| SB    | SOC251   | Social Problems (3 cr.)                          | SB, C | WST100  | Women & Society (3 cr.)  |
| SB    | SOC253   | Social Class & Stratification (3 cr.)            | SB, C | WST105  | Women of Color in America (3 cr.)  |
| SB    | SOC265   | Sociology of Aging (3 cr.)                       | SB    | WST110  | Women & Gender: A Feminist Psychology (3 cr.)  |
| SB    | SOC270   | Sociology of Health & Illness (3 cr.)            | SB    | WST120  | Gender, Class, & Race (3 cr.)  |
| G     | SPA201   | Intermediate Spanish I (4 cr.)                   | HU, H | WST209  | Women & Films (3 cr.)  |
| G     | SPA201AA | Intermediate Spanish I (4 cr.)                   | HU, C | WST284  | 19th Century Women Writers (3 cr.)   |
| G     | SPA202   | Intermediate Spanish II (4 cr.)                  | HU, C | WST285  | Contemporary Women Writers (3 cr.)   |
| G     | SPA202AA | Intermediate Spanish II (4 cr.)                  | HU, C | WST285  | Contemporary Women Writers (3 cr.)   |
| G     | SPA203   | Spanish for Spanish Speaking Students I (4 cr.)  | G     | WST290* | Women & Religion (3 cr.)<br>*Note: WST290* General Studies designation effective Spring 2001.                            |
| G     | SPA204   | Spanish for Spanish Speaking Students II (4 cr.) |       |         |  |
| HU    | SPA265   | Advanced Spanish I (3 cr.)                       |       |         |  |
| HU    | SPA266   | Advanced Spanish II (3 cr.)                      |       |         |  |
| HU, G | SPH150   | Peninsular Spanish Lit in Translation (3 cr.)    |       |         |  |

|     |   |      |   |        |   |
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| FYC | First-Year Composition  | MA-A | Mathematical Studies/AGEC A   | SG-S   | Natural Sciences/AGEC S                                 |
| G   | Global Awareness  | MA-B | Mathematical Studies/AGEC B   | SQ     | Natural Sciences (As of Fall 2000 [S1] changed to [SQ]) |
| H   | Historical Awareness  | MA-C | Mathematical Studies/AGEC C   | SG-A&B | Natural Sciences/AGEC A & AGEC B                        |
| HU  | Humanities and Fine Arts  | SB   | Social and Behavioral Sciences                                      | SG-S   | Natural Sciences/AGEC S                                 |

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## Associate in Transfer Partnership (ATP) Degree

The Maricopa County Community College District Associate in Transfer Partnership (ATP) degree is designed to meet the needs of the Maricopa Community College students transferring to public and private colleges and universities. This degree is developed specifically for students who have an identified major and have selected the baccalaureate degree-granting institution to which they intend to transfer.

The Associate in Transfer Partnership degree is an articulated academic program of study established among the student, the accredited baccalaureate degree-granting institution selected by the student, and the primary Maricopa Community College the student attends. The program of study will “parallel” the student’s four-year degree as designated by the baccalaureate degree-granting institution. That is, the courses and number of credit hours in the degree will consist of the Freshman and Sophomore lower division course degree requirements of the major as jointly planned and agreed on with the community college and the accredited institution to which the student plans to transfer.

The ATP degree requires a core of general studies credits in the following general studies categories: First-Year Composition (6 credits); Mathematics (3 credits); Natural Sciences (4 credits); and Humanities and Fine Arts/Social and Behavioral Sciences or related area general studies requirements (6 credits). Also included in the ATP degree are the general education and major requirements to meet the lower division requirements of the major at the baccalaureate degree-granting institution. The ATP degree must consist of at least a minimum of 60 credit hours. The ATP degrees are accessible on the following web site:

✓ <http://www.dist.maricopa.edu/eddev/curric/>  
*Click on Program Information to access ATPs.*



### Exemption From Arizona University Admission Requirements

The Associate in Transfer Partnership degree provides for exemption from Arizona university admission requirements for students who complete the degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

The ATP degree does not assure admission to the specific program at the baccalaureate degree-granting institution. Students participating in the ATP degree will be treated as “native” students by the upper division institution in terms of course evaluation and course changes.

Advising is a critical element of the transfer partnership degree, and students must work closely with a community college academic advisor prior to entering into a transfer partnership agreement. Once a transfer partnership agreement has been initiated by the student, approved and signed off by a community college academic advisor and university authorized official, the student is responsible for periodic meetings with the community college advisor and, if/when determined necessary, with the appropriate baccalaureate degree-granting institution academic advisor. Upon completion of 36 hours, the student must receive formal advising at a Maricopa Community College before the remainder of their classes can be scheduled.

### Elements of the Associate In Transfer Partnership (ATP) Degree

| <u>Element</u>  | <u>Credits</u> |
|---|----------------|
| MCCCD General Studies Core  | 19             |
| Approved Lower Division Transfer Courses<br><i>(Major dependent with maximum to be determined by receiving baccalaureate degree granting institution)</i> | Variable       |
| Associate in Transfer Partnership Degree Total Hours  | 60 minimum     |

Associate in Transfer Partnership degrees are available in the following areas. Other ATP degrees may be added later depending on curricular needs:

- Business
- Elementary Education
- Housing & Urban Development
- Accountancy
- Psychology
- Social Work
- Exercise Science
- Computer Information Systems

Associate in General Studies (AGS) Degree

## Associate in General Studies (AGS) Degree

The Maricopa County Community College District Associate in General Studies (AGS) degree is recommended for students whose educational goals require flexibility. The AGS allows students to choose any elective courses numbered 100 or above to complete the degree. Therefore, this degree may be less appropriate for students who intend to transfer to a baccalaureate-granting institution.

Students who demonstrate skills comparable to those in Critical Reading and/or Mathematics and/or Computer Usage may substitute acceptable elective courses to satisfy the total credits required for the degree.

### The MCCCDC Associate in General Studies:

- requires a minimum of 60 semester credits in courses numbered 100 and above. AGS degree requirements follow with the use of a diagonal character (/) between course numbers to signify options. An asterisk (\*) following the course number defines requirements with an effective begin term of spring;
- requires grades as listed for specific areas such as the General Studies Core where a minimum grade of “C” is required. Courses applied to other areas may be completed with a minimum grade of “D”;
- uses the following policies for course(s) satisfying multiple program areas;
  1. A course can simultaneously satisfy one Core area and one Distribution area. Courses that meet this criterion are **bold print and underscored** in the Core areas and Distribution areas.
  2. A course cannot satisfy more than one Core area, even if it is approved for more than one Core area.
  3. A course cannot satisfy more than one Distribution area, even if it is approved for more than one Distribution area.
- follows the graduation policies within the general catalog;
- includes both courses and their modular equivalents; either the course or the modular equivalents will satisfy the Associate in General Studies;
- accepts one of the courses that is cross-referenced with other courses;
- provides for exemption from Arizona university admission requirements for students who complete the Associate in General Studies degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

### General Studies Core Areas

(16 credits - grade of “C” or better)

#### First-Year Composition (6 credits)

ENG English [101/107] & [102/108]

#### Oral Communication (3 credits)

COM Communication **100/100AA & 100AB & 100AC/110/110AA & 110AB & 110AC/225/230**

#### Critical Reading (3 credits)

CRE Critical Reading **101**/Equivalent as indicated by assessment

#### Mathematics (3 credits)

MAT Mathematics 102/105/120/121/122/122AA/122AB/122AC/126/142/150/151/151AA/151AB/151AC/151AD/152/156/162/167/172/182/187/212/216/220/221/225/226/227/230/231/236/241/262/

Equivalent as indicated by assessment/Satisfactory completion of a higher level Mathematics course.

#### Computer Usage (1 credit)

Computer-related course or demonstration of comparable computer skills. Additional courses may be approved by individual colleges. Students should contact their advisor for college-specific courses satisfying the requirement.

ACC Accounting 115/115AA/115AB/115BA/115BB

ADA Advertising Arts 169/170/170AA/170AB/173/173AA/173AB/173AC/175/175AA/175AB/177/177AA/177AB/any 180 modules/183/183AA/183AB/183AC/283/283AA/283AB/283AC/289/289AA/289AB/289AC

AGB Agribusiness 139

AJS Administration of Justice Studies 117/119/205

ART Art 100/169/170/170AA/170AB/173/173AA/173AB/173AC/175/175AA/175AB/177/177AA/177AB/179/179AA/179AB/any 180 module/183/183AA/183AB/183AC/283/283AA/283AB/283AC/289/289AA/289AB/289AC

BPC Business-Personal Computers — Any BPC Course(s)

CFS Child/Family Studies 180

CIS Computer Information Systems — Any CIS Course(s)

CSC Computer Science — Any CSC Course(s)

CTR Court Reporting 101/102

DFT Drafting Technology 103/105/any 105 module/150/151/200/201/251/any 251 module/253/any 253 module/any 254 module/any 256 module

ECE Engineering Science 102/102AA/103/103AB/139

ECH Early Childhood Education 238

\*Indicates course has a Prerequisite and/or Corequisite.

Associate in General Studies (AGS) Degree

|  |  |   |  |
|--|--|---|--|
| EEE  | Electrical Engineering 120   | REL   | Religious Studies — Any REL Course(s)  |
| ELE  | Electronic 115/150/181/241/243/245/281   | SPA   | Spanish 265/266  |
| ELT  | Electronic Technology 131/131AA/131AB/<br>241/243/249/273/281/282  | SPH   | Spanish Humanities 150/151/245   |
| ENG  | English 100AE  | TCM   | Telecommunication 145  |
| FON  | Food & Nutrition 100/100AA/100AC/100AD/<br>140BC   | THE   | Theater 111/205/206/210/220/260  |
| GPH  | Physical Geography 217/219   | THP   | Theater/Performance/Production 241   |
| HRM  | Hotel Restaurant Management 126  | WST   | Women's Studies 209/284/285  |
| JRN  | Journalism 133   | <b>Social and Behavioral Sciences (9 credits)</b>   |  |
| LAS  | Legal Assisting 229  | No more than 2 courses, or their modular equivalencies,<br>from a single prefix may be used to complete the area. |  |
| LBT  | Library Technology 106   | AIS   | American Indian Studies 101/105/141  |
| MET  | Manufacturing Technology 105AA/264   | AJS   | Administration of Justice Studies 101/ <b>119</b> /200/<br>258/259/270                             |
| MTC  | Music Theory/Composition 191   | ASB   | Anthropology 100/102/211/214//222/223/230/<br>235/238/245  |
| NET  | Networking Technology 181/181AA/181AB/247  | ASM   | Anthropology 101   |
| OAS  | Office Automation Systems 111AA/111AB/113/<br>113AA&113AB/119/130/any 130 module/<br>any 135 module/any 235 module/261/262 | CFS   | Child/Family Studies 157/159/176/205/259   |
| QCT  | Quality Control Technology 274   | COM   | Communication <b>100/100AA&amp;100AB&amp;100AC/<br/>110/110AA&amp;110AB&amp;110AC/230/250/263</b>  |
| SBS  | Small Business 211   | ECH   | Early Childhood Education 176  |
| SMT  | Semiconductor Manufacturing Technology<br>131/150  | ECN   | Economics — Any ECN Course(s)  |
| TCM  | Telecommunications 106   | EDU   | Education 221/222  |
| TVL  | Travel Agent Technology 203/205  | FUS   | Future Studies 101   |
| VPT  | Video Production Technology 106  | GBS   | General Business 280   |
| <b>General Studies Distribution Areas</b><br>(28-29 credits)   |  | GCU   | Cultural Geography 102/121/122/141/221/253   |
| <b>Humanities and Fine Arts (9 credits)</b>  |  | HES   | Health Science 100   |
| No more than 2 courses, or their modular equivalencies,<br>from a single prefix may be used to complete the area.<br>Select nine (9) credits from the following: |  | HIS   | History — Any HIS Course(s)  |
| AJS  | Administration of Justice Studies 123  | IBS   | International Business 109   |
| ARH  | Art Humanities — Any ARH Course(s)   | MCO   | Mass Communications 120  |
| ASB  | Anthropology 211/222/223   | PHI   | Philosophy 243   |
| COM  | Communication 241  | POS   | Political Science — Any POS course(s)  |
| DAH  | Dance Humanities 100/201   | PSY   | Psychology 101/123/132/156/157/215/218/235/<br>240/245/250/258/259/260/266/270/277/280/<br>281/292 |
| EDU  | Education 291/292/294  | REC   | Recreation 120/160   |
| ENG  | English 200/260  | REL   | Religious Studies 243  |
| ENH  | English Humanities — Any ENH Course(s)   | SBU   | Society and Business 200   |
| FRE  | French 265/266   | SOC   | Sociology — Any SOC course(s) (EXCEPT 242)   |
| HCR  | Health Care Related 210  | SWU   | Social Work 102/271  |
| HIS  | History 243  | TEC   | Textiles and Clothing 105/106  |
| HUM  | Humanities — Any HUM course(s)   | WED   | Wellness Education 100/110   |
| INT  | Interior Design 115/120/225  | WST   | Women's Studies 100/105/110/120  |
| LAT  | Latin 201/202  | <i>CONTINUED</i>  |  |
| MHL  | Music: History/Literature 141/142/143/145/<br>146/147/153  |   |  |
| PHI  | Philosophy — Any PHI Course(s) (EXCEPT<br>113)   |   |  |

*\* Indicates course has a Prerequisite and/or Corequisite.*

Associate in General Studies (AGS) Degree • Associate in Applied Science (AAS) Degree

Natural Sciences (7-8 credits)

At least one course must be a laboratory course. In cases where lecture and associated lab receive separate credit, both will be counted as equivalent to one course in that prefix.

- AGS Agricultural Science 183
- ASB Anthropology 231
- ASM Anthropology 265
- AST Astronomy 101/102/111/112/113/114
- BIO Biology 100/101/102/105/108/109/110/149AF/  
149AH/149AI/149AJ/149AK/149AL/149AM/  
AN/150/156/160/181/182/183/201/205/241
- CHM Chemistry 107/107LL/130/130LL/151/151LL/  
152/152LL/154/154LL/230/230LL
- GLG Geology — Any GLG course(s)
- GPH Physical Geography 111/112/113/210/211/  
212/214
- ISS Interdisciplinary Science Studies 111/112
- PHS Physical Science 110/120
- PHY Physics 101/111/112/115/116/121/131/252
- PSY Psychology 290AB/290AC

Literacy & Critical Inquiry (3 credits)

- CCS Chicana and Chicano Studies 101
- COM Communication 207/222/**225/230**/241
- CRE Critical Reading **101**
- DAH Dance Humanities 201
- ENG English 111/200/213/215/216/217/218
- ENH English Humanities 254/255
- FON Food & Nutrition 206
- GBS General Business 233
- GPH Physical Geography 211
- HCR Health Care Related 220
- HUM Humanities 250/251
- IGS Integrated Studies 290/290AA&290AB/291/293
- JRN Journalism 201/212
- MCO Mass Communications 220
- NUR Nursing 211
- PHI Philosophy 103/106/225
- POS Political Science 115
- PSY Psychology 290AB/290AC
- REL Religious Studies 203/205/225
- THE Theater 220
- THP Theater Performance/Production 241

Elective Courses (15-16 credits)

May select courses from prefixes already chosen for General Studies Distribution requirements in order to develop depth in one or more subject areas.

## Associate in Applied Science (AAS) Degree, General Studies Requirements

The Maricopa County Community College District Associate in Applied Science (AAS) degree is recommended for students who wish to gain a depth of technical expertise by completing an occupational program presented in the college catalog. Students should consult this catalog to determine specific program requirements.

### The MCCCDC Associate in Applied Science Degree:

- requires 64 or more credits numbered 100 or above and includes credits or the equivalent in the General Studies Core areas and credits in the Distribution areas. AAS degree requirements follow with the use of a diagonal character (/) between course numbers to signify options. An asterisk (\*) following the course number defines requirements with an effective begin term of spring;
- requires grades as listed for specific areas such as the General Studies Core where a minimum grade of “C” is required. See specific AAS occupational degree for specific program grade requirements;
- follows the graduation policies within the general catalog;
- includes both courses and their modular equivalents, either the course or the modular equivalents will satisfy the Associate in Applied Science requirements.
- requires at least 12 semester credit hours earned at the college awarding the AAS degree. The 12 hours in the AAS degree curricula may be in the Required Courses area and/or Restricted Electives courses. Courses from the General Studies Core and Distribution area are excluded;
- requires completion of General Studies courses as indicated in the General Studies Requirements for the Associate in Applied Science degree from the Maricopa County Community College District, or completion of a curriculum as stated in the catalog;
- accepts one of the courses that is cross-referenced with other courses;
- provides for exemption from Arizona university admission requirements for students who complete the Associate in Applied Science (AAS) degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

### General Studies Core Areas

(15 credits - grade of “C” or better.)

Demonstrate college-level skills in the following areas:

*\* Indicates course has a Prerequisite and/or Corequisite.*

Associate in Applied Science (AAS) Degree, General Studies Requirements

**First-Year Composition (6 credits)**

ENG English [101/107] & [102/108/111]

**Oral Communication (3 credits)**

COM Communication 100/100AA & 100AB & 100AC/110/110AA & 110AB & 110AC/225/230

**Critical Reading (3 credits)**

CRE Critical Reading 101/111/Equivalent as indicated by assessment

**Mathematics (3 credits)**

MAT Mathematics 102/105/120/121/122/122AA/122AB/122AC/126/142/150/151/151AA/151AB/151AC/151AD/152/156/162/167/172/182/187/212/216/220/221/225/226/227/230/231/236/241/262/  
Equivalent as indicated by assessment/  
Satisfactory completion of a higher level mathematics course.

**General Studies Distribution Areas**

(9-10 credits)

**Humanities and Fine Arts (2-3 credits)**

No more than 2 courses, or their modular equivalencies, from a single prefix may be used to complete the area.

AJS Administration of Justice Studies 123

ARH Art Humanities Any ARH Course(s)

ASB Anthropology 211//222/223

COM Communication 241

DAH Dance Humanities 100/201

EDU Education 291/292/294

ENG English 200/260

ENH English Humanities Any ENH Course(s)

FRE French 265/266

HCR Health Care Related 210

HIS History 243

HUM Humanities Any HUM course(s)

INT Interior Design 115/120/225

LAT Latin 201/202

MHL Music: History/Literature 141/142/143/145/146/147/153

PHI Philosophy Any PHI Course(s) (EXCEPT 113)

REL Religious Studies Any REL Course(s)

SPA Spanish 265/266

SPH Spanish Humanities 150/151/245

TCM Telecommunication 145

THE Theater 111/205/206/210/220/260

THP Theater/Performance/Production 241

WST Women's Studies 209/284/285

**Social and Behavioral Sciences (3 credits)**

No more than 2 courses, or their modular equivalencies, from a single prefix may be used to complete the area.

AIS American Indian Studies 101/105/141

AJS Administration of Justice Studies 101/200/258/259/270

ASB Anthropology 100/102/211/214/222/223/230/235/238/245

ASM Anthropology 101

CFS Child/Family Studies 157/159/176/205/259

ECH Early Childhood Education 176

ECN Economics Any ECN course(s)

EDU Education 221/222

FUS Future Studies 101

GBS General Business 280

GCU Cultural Geography 102/121/122/141/221/253

HES Health Science 100

HIS History Any HIS course(s)

IBS International Business 109

MCO Mass Communications 120

PHI Philosophy 243

POS Political Science Any POS course(s)

PSY Psychology 101/123/125/132/156/157/215/218/235/240/245/250/258/259/260/266/270/277/280/281/292

REC Recreation 120/160

REL Religious Studies 243

SBU Society and Business 200

SOC Sociology Any SOC course(s) (EXCEPT 242)

SWU Social Work 102/271

TEC Textiles and Clothing 105/106

WED Wellness Education 100/110

WST Women's Studies 100/105/110/120

**Natural Sciences (4 credits)**

Select laboratory course or courses from any of the following. In cases where lecture and associated lab receive separate credit, both will be counted as equivalent to one course in that prefix.

ASB Anthropology 231

ASM Anthropology 265

AST Astronomy 101/102/111/112/113/114

BIO Biology 100/101/102/105/108/109/110/149AN/150/156/160/181/182/183/201/205/241

CHM Chemistry 107/107LL/130/130LL/151/151LL/152/152LL/154/154LL/230/230LL

GLG Geology Any GLG course(s) (EXCEPT 140/251MC/275)

GPH Physical Geography 111/112/113/212/214

ISS Interdisciplinary Science Studies 111/112

PHS Physical Science 110/120

PHY Physics 101/111/112/115/116/121/131/252

PSY Psychology 290AB/290AC

*\* Indicates course has a Prerequisite and/or Corequisite.*

Chemical Dependency

## Chemical Dependency

The Chemical Dependency Program is designed to train people in the skills necessary for assisting chemically dependent persons to alleviate that dependency. The program includes courses designed to provide students with the knowledge of the field through focusing on the development of counseling skills specific to the needs of chemically dependent clientele as identified by appropriate agencies.

### Certificate of Completion in Chemical Dependency Level I

|  |           |
|--|-----------|
| <b>Required Courses:</b>   | <b>21</b> |
| BHS205* Models for Growth  | 3         |
| CHD100 Foundations of Chemical Dependency                                  | 3         |
| CHD102 Communication Skills in Chemical Dependency                         | 3         |
| CHD110 Biological Systems Pharmacology of the Chemically Dependent         | 3         |
| CHD120 Professional Ethics in Counseling the Chemically Dependent          | 1         |
| CHD145 AIDS and Chemical Dependency  | 1         |
| CHD150 Principles of Self-Help Groups                                      | 2         |
| CHD161* Beginning Interviewing and Documentation Skills                    | 3         |
| CHD165* Theory and Techniques in the Treatment of the Chemically Dependent | 2         |

### Certificate of Completion in Chemical Dependency Level II

|  |           |
|--|-----------|
| <b>Required Courses:</b>   | <b>47</b> |
| Certificate of Completion in Chemical Dependency Level I                     | 21        |
| CHD220* Family Dynamics and Chemical Dependency                              | 3         |
| CHD226* Counseling Multicultural and Diverse Populations                     | 3         |
| CHD236* Recovery and Relapse of the Chemically Dependent                     | 2         |
| CHD245* Dual Diagnosis   | 2         |
| CHD250* Group Interventions with the Chemically Dependent                    | 3         |
| CHD275* Adv Theory & Techniques in the Treatment of the Chemically Dependent | 3         |
| CHD280* Chemical Dependency Practicum  | 6         |
| <b>Restricted Electives:</b>   | <b>4</b>  |
| <i>Choose 4 credits from the following:</i>                                  |           |
| CHD215* Adult Children of Alcoholics   | 1         |
| CHD240* Human Sexuality and Chemical Dependency                              | 2         |
| CHD265* Co-Dependency  | 1         |
| CHD285* Chemical Dependency Seminar  | 1         |
| CPD102AA Assertiveness Training  | 2         |
| CPD102AD Eliminating Self-Defeating Behavior                                 | 2         |
| CPD102AH Stress Management   | 2         |
| PSY101 Introduction to Psychology  | 3         |
| PSY260* Personality Development  | 3         |
| PSY266* Abnormal Psychology  | 3         |
| PSY270* Personal and Social Adjustment                                       | 3         |

Modifications to programs and courses may occur throughout the academic year. For the most updated information on curriculum, see our web site at:

✓ <http://www.rio.maricopa.edu/ci/programs/>  
or to speak to an academic advisor, call 480-517-8540.

\* Indicates course has a Prerequisite and/or Corequisite.

## Associate in Applied Science in Chemical Dependency

### Required Courses: 47

Certificate of Completion in Chemical Dependency Level I 21

Certificate of Completion in Chemical Dependency Level II 26

### General Studies Requirements: 25

### General Studies Core: 15

First-Year Composition 6

ENG101\* First-Year Composition (3)

AND

ENG102\* First-Year Composition (3)

Oral Communication 3

Any approved general studies course in the Oral Communication area.

Mathematics 3

MAT102\* Mathematical Concepts/Applications (3)

OR

Equivalent as indicated by assessment

Critical Reading 3

CRE101\* Critical and Evaluative Reading I (3)

OR

Equivalent as indicated by assessment

### General Studies Distribution: 10

Humanities and Fine Arts 3

Any approved general studies course in the Humanities and Fine Arts area.

Natural Sciences 4

Any approved general studies course in the Natural Sciences area.

Social and Behavioral Services 3

PSY101 Introduction to Psychology (3)

OR

PSY270\* Personal and Social Adjustment (3)

### Certificate(s) or Degree(s) Awarded:

Certificate of Completion in:

Chemical Dependency Level I (21 credits)

Chemical Dependency Level II (47 credits)

Associate in Applied Science in:

Chemical Dependency (72 credits)

Students must earn a grade of "C" or better for all courses required within the program.

Minimum GPA 2.00

## Computer Technology

The Computer Technology program is designed to provide information and training on the use, application and technological developments of computers in a changing electronic environment. Course work is aimed primarily at students interested in developing skills in the business or personal computing environment. Specifically, the basic courses provide instruction in areas which include: 1) computer applications in the business environment and current trends and development in computers; 2) graphical applications; 3) electronic spreadsheets; 4) database; 5) work processing; 6) computer operating systems. Subsequent course work provides the student with an opportunity to specialize in: office user specialist preparation skills; systems engineer; local area networking; computer web development; business office technology; desktop publishing; troubleshooting and helpdesk support; programming; e-Commerce; project management; or database administration. Course requirements also include general mathematics and English skills.

## Certificate of Completion in Computer Technology

The Computer Technology certificate is designed to provide an overview on the use, application, and technological developments of computers in a changing electronic environment. Courses focus on training the student in the basic use of software applications including the computer operating system, word processing, electronic worksheets, database management, and presentation graphics.

### Required Courses: 16

BPC135xx\* Word Processing (any module) 2

CIS105 Survey of Computer Information Systems 3

CIS114DE Excel Spreadsheet 3

CIS117Dx Database Management (any module) 3

CIS118AB PowerPoint: Level I 1

CIS121AE Windows Operating System: Level I (1)

OR

CIS121AG Windows 98: Level I (1) 1

CIS133AA The Internet: Level I (1)

AND

CIS133BA\* The Internet: Level II (1)

AND

CIS133CA\* The Internet: Level III (1)

OR

CIS133DA The Internet/World Wide Web (3) 3

CONTINUED

\* Indicates course has a Prerequisite and/or Corequisite.

**Computer Technology**

**Certificate of Completion in Business Office Technology**

The Business Office Technology certificate is designed to provide the skills necessary for office professionals in the use, application, and technological developments of computers. Courses focus on training the student on software applications commonly used in the workplace including electronic mail, the Internet, local area networks, project management, desktop design, business systems design, advanced word processing, and written communication skills.

**Required Courses: 34-35**

|   |     |
|---|-----|
| Certificate of Completion in Computer Technology          | 16  |
| BPC138AA* Windows Desktop Design & Publishing (3)         |     |
| <i>OR</i>   |     |
| BPC138AB* Macintosh Desktop Design & Publishing (3)       | 3   |
| BPC235xx* Advanced Work Processing (any module)           | 2   |
| CIS109* LAN Operations and Concepts                       | 1   |
| CIS120DF Computer Graphics: IBM Adobe Photoshop           | 3   |
| CIS122AE* Windows Operating System: Level II (1)          |     |
| <i>OR</i>   |     |
| CIS122AG* Windows 98 - Level II (1)                       | 1   |
| CIS124AA Project Management Software: Level I             | 1   |
| CIS214DE* Advanced Excel Spreadsheet: Level II            | 3   |
| CIS233AB* Internet Web Publishing: FrontPage Level I (1)  |     |
| <i>AND</i>  |     |
| CIS233BB* Internet Web Publishing: FrontPage Level II (1) |     |
| <i>OR</i>   |     |
| CIS233AA* The Internet Web Publishing I (1)               |     |
| <i>AND</i>  |     |
| CIS233BA* The Internet Web Publishing II (1)              |     |
| <i>AND</i>  |     |
| CIS233CA* The Internet Web Publishing III (1)             |     |
| <i>OR</i>   |     |
| CIS233DA* The Internet Web Publishing (3)                 | 2-3 |
| TQM105* Writing for Quality Results                       | 2   |

**Certificate of Completion in Networking**

The Networking certificate is designed to provide the basic skills necessary for students planning to specialize in local area networks. Courses focus on training the student in project management, business systems, design, computer setup and maintenance, LAN operations and advanced operating systems.

**Required Courses: 37**

|  |    |
|--|----|
| Certificate of Completion in Computer Technology | 16 |
| BPC125* Microcomputer Set Up and Maintenance     | 1  |
| BPC170* Computer Maintenance I: A+ Prep          | 3  |
| BPC225* Computer Configuration and Enhancement   | 1  |
| BPC278* Software Installation - MS Windows       | 3  |
| CIS109* LAN Operations and Concepts              | 1  |
| CIS121AB MS-DOS Operating System                 | 1  |
| CIS122AE* Windows Operating System: Level II (1) |    |
| <i>OR</i>  |    |
| CIS122AG* Windows 98 - Level II (1)              | 1  |
| CIS124AA Project Management Software: Level I    | 1  |
| CIS190* Introduction to Local Area Networks      | 3  |
| CIS225* Business Systems Analysis and Design     | 3  |
| CIS240* Local Area Network Planning and Design   | 3  |

**Certificate of Completion in Web Master**

The Web Master certificate is designed to prepare students to work with and design professional web pages. Courses focus on training the student in project management, maintenance, Internet navigation, HTML, web design and publishing, graphics design, multimedia technology, and written communication skills.

**Required Courses: 34**

|  |    |
|--|----|
| Certificate of Completion in Computer Technology | 16 |
| BPC125* Microcomputer Set Up and Maintenance     | 1  |
| CIS109* LAN Operations and Concepts              | 1  |
| CIS120DF Computer Graphics: IBM Adobe Photoshop  | 3  |
| CIS122AE* Windows Operating System: Level II (1) |    |
| <i>OR</i>  |    |
| CIS122AG* Windows 98 - Level II (1)              | 1  |
| CIS124AA Project Management Software: Level I    | 1  |
| CIS140* Survey of Multimedia Technology          | 2  |
| CIS159* Visual Basic Programming I (3)           |    |
| <i>OR</i>  |    |
| CIS166AA* Introduction to JavaScripting (3)      | 3  |
| CIS233AA* The Internet Web Publishing I (1)      |    |
| <i>AND</i>                                       |    |
| CIS233BA* The Internet Web Publishing II (1)     |    |
| <i>AND</i>                                       |    |
| CIS233CA* The Internet Web Publishing III (1)    |    |
| <i>OR</i>  |    |
| CIS233DA* The Internet Web Publishing (3)        | 3  |
| CIS235* e-Commerce                               | 3  |

*\* Indicates course has a Prerequisite and/or Corequisite.*



Computer Technology

**Certificate of Completion in Desktop Publishing**

The Desktop Publishing certificate is designed to prepare students to work with and design professional publications. Courses focus on training the student in project management, Internet navigation, desktop design, web page design, and graphics design.

**Required Courses: 33**

|   |    |
|---|----|
| Certificate of Completion in Computer Technology          | 16 |
| BPC128AF Introduction to Desktop Publishing: MS Publisher | 1  |
| BPC138AA* Windows Desktop Design & Publishing (3)         |    |
| <i>OR</i>   |    |
| BPC138AB* Macintosh Desktop Design & Publishing (3)       | 3  |
| BPC238AA* Windows Advanced Desktop Publication (3)        |    |
| <i>OR</i>   |    |
| BPC238AB* Macintosh Advanced Desktop Publication (3)      | 3  |
| CIS120BD Computer Graphics: IBM Adobe Illustrator         | 3  |
| CIS120DF Computer Graphics: IBM Adobe Photoshop           | 3  |
| CIS124AA Project Management Software: Level I             | 1  |
| CIS233AA* The Internet Web Publishing I (1)               |    |
| <i>AND</i>  |    |
| CIS233BA* The Internet Web Publishing II (1)              |    |
| <i>AND</i>  |    |
| CIS233CA* The Internet Web Publishing III (1)             |    |
| <i>OR</i>   |    |
| CIS233DA* The Internet Web Publishing (3)                 | 3  |

**Certificate of Completion in Technology Troubleshooting and A+ Preparation**

The Technology Troubleshooting and A+ Preparation certificate is designed to prepare the student to work as a hardware technician with preparation toward A+ certification. Courses focus on project management, business systems analysis and design, Internet navigation, computer setup and maintenance, computer configuration, customer service and technical support, advanced operating systems, LAN operations, and current topics in computing.

**Required Courses: 35**

|  |    |
|--|----|
| Certificate of Completion in Computer Technology | 16 |
| BPC125* Microcomputer Set Up and Maintenance     | 1  |
| BPC170* Computer Maintenance I: A+ Prep          | 3  |

|           |   |   |
|-----------|---|---|
| BPC225*   | Computer Configuration and Enhancement      | 1 |
| BPC278*   | Software Installation - MS Windows          | 3 |
| CIS102    | Customer Service/Technical Support          | 1 |
| CIS109*   | LAN Operations and Concepts                 | 1 |
| CIS121AB  | MS-DOS Operating System                     | 1 |
| CIS122AE* | Windows Operating System: Level II (1)      |   |
| <i>OR</i> |   |   |
| CIS122AG* | Windows 98 - Level II (1)                   | 1 |
| CIS124AA  | Project Management Software: Level I        | 1 |
| CIS225*   | Business Systems Analysis and Design        | 3 |
| CIS280    | Current Topics in Computing (3)             |   |
| <i>OR</i> |   |   |
| CIS290AC* | Computer Information Systems Internship (3) | 3 |

**Certificate of Completion in Technology Helpdesk Support**

The Technology Helpdesk Support certificate is designed to prepare the student to work as a technology helpdesk customer service representative. Courses focus on project management, Internet navigation, advanced operating systems, LAN operations, computer setup and maintenance, advanced word processing, desktop design, customer service and technical support, and current topics in computing.

**Required Courses: 32**

|  |   |   |
|--|---|---|
| Certificate of Completion in Computer Technology | 16  |   |
| BPC125*  | Microcomputer Set Up and Maintenance        | 1 |
| BPC138AA*  | Windows Desktop Design & Publishing         | 3 |
| BPC235xx*  | Advanced Word Processing (any module)       | 2 |
| CIS102   | Customer Service/Technical Support          | 1 |
| CIS109*  | LAN Operations and Concepts                 | 1 |
| CIS122AE*  | Windows Operating System: Level II (1)      |   |
| <i>OR</i>  |   |   |
| CIS122AG*  | Windows 98 - Level II (1)                   | 1 |
| CIS124AA   | Project Management Software: Level I        | 1 |
| CIS233AA*  | The Internet Web Publishing I (1)           |   |
| <i>AND</i>                                       |   |   |
| CIS233BA*  | The Internet Web Publishing II (1)          |   |
| <i>AND</i>                                       |   |   |
| CIS233CA*  | The Internet Web Publishing III (1)         |   |
| <i>OR</i>  |   |   |
| CIS233DA*  | The Internet Web Publishing (3)             | 3 |
| CIS280   | Current Topics in Computing (3)             |   |
| <i>OR</i>  |   |   |
| CIS290AC*  | Computer Information Systems Internship (3) | 3 |

CONTINUED

\* Indicates course has a Prerequisite and/or Corequisite.

Computer Technology

**Certificate of Completion in Programming**

The Programming certificate is designed to prepare the student to work in the programming field. Courses focus on programming theory, Java programming, Visual Basic programming, and web programming.

**Required Courses: 37**

|  |    |
|--|----|
| Certificate of Completion in Computer Technology | 16 |
| CIS150* Programming Fundamentals                 | 3  |
| CIS159* Visual Basic Programming I               | 3  |
| CIS162AB* C++: Level I (3)                       |    |
| <i>OR</i>  |    |
| CIS166AA* Introduction to JavaScripting (3)      | 3  |
| CIS163AA* Java Programming: Level I              | 3  |
| CIS233AA* The Internet Web Publishing I (1)      |    |
| <i>AND</i>                                       |    |
| CIS233BA* The Internet Web Publishing II (1)     |    |
| <i>AND</i>                                       |    |
| CIS233CA* The Internet Web Publishing III (1)    |    |
| <i>OR</i>  |    |
| CIS233DA* The Internet Web Publishing (3)        | 3  |
| CIS259* Visual Basic Programming II              | 3  |
| CIS263AA* Java Programming: Level II             | 3  |

The following Certificates of Completion are limited to Rio Salado's Educational Partnership Programs (see page 104):

- Database Administration
- Basic Systems Engineers
- Advanced Systems Engineer



**Certificate of Completion in e-Commerce/Website Management**

The e-Commerce/Website Management certificate is designed to prepare the student to implement and manage an e-Commerce website. Courses focus on networking, web publishing and web scripting.

**Required Courses: 35**

|   |    |
|---|----|
| Certificate of Completion in Computer Technology    | 16 |
| CIS109* LAN Operations and Concepts                 | 1  |
| CIS115* Managing Computer Projects                  | 3  |
| CIS120DC Computer Graphics: Macromedia Flash (3)    |    |
| <i>OR</i>   |    |
| CIS120DF Computer Graphics: IBM Adobe Photoshop (3) | 3  |
| CIS122AG* Windows 98 - Level II (1)                 |    |
| <i>OR</i>   |    |
| CIS122AE* Windows Operating System: Level II (1)    | 1  |
| CIS140* Survey of Multimedia Technology             | 2  |
| CIS166AA* Introduction to JavaScripting             | 3  |
| CIS233AA* The Internet Web Publishing I (1)         |    |
| <i>AND</i>  |    |
| CIS233BA* The Internet Web Publishing II (1)        |    |
| <i>AND</i>  |    |
| CIS233CA* The Internet Web Publishing III (1)       |    |
| <i>OR</i>   |    |
| CIS233DA* The Internet Web Publishing (3)           | 3  |
| CIS235* e-Commerce                                  | 3  |

**Certificate of Completion in Project Management/Website Management**

The Project Management/Website Management certificate prepares students to manage the website process. Courses focus on a turnkey solution from inception to completion.

**Required Courses: 32**

|  |    |
|--|----|
| Certificate of Completion in Computer Technology | 16 |
| CIS109* LAN Operations and Concepts              | 1  |
| CIS115* Managing Computer Projects               | 3  |
| CIS124AA Project Management Software: Level I    | 1  |
| CIS124BA* Project Management Software: Level II  | 1  |
| CIS140* Survey of Multimedia Technology          | 2  |
| CIS159* Visual Basic Programming I               | 3  |
| CIS225* Business Systems Analysis and Design     | 3  |
| TQM105* Writing for Quality Results              | 2  |

\* Indicates course has a Prerequisite and/or Corequisite.

Computer Technology

**Associate in Applied Science in  
Computer Technology**

**Required Courses: 11-37**

|  |       |
|--|-------|
| Certificate of Completion in Computer Technology<br><i>OR</i>                              | 16    |
| Certificate of Completion in Networking<br><i>OR</i>                                       | 37    |
| Certificate of Completion in Web Master<br><i>OR</i>                                       | 34    |
| Certificate of Completion in Desktop Publishing<br><i>OR</i>                               | 33    |
| Certificate of Completion in<br>Technology Troubleshooting and A+ Preparation<br><i>OR</i> | 35    |
| Certificate of Completion in<br>Technology Helpdesk Support<br><i>OR</i>                   | 32    |
| Certificate of Completion in Programming<br><i>OR</i>                                      | 37    |
| Certificate of Completion in<br>Business Office Technology<br><i>OR</i>                    | 34-35 |
| Certificate of Completion in<br>e-Commerce/Website Management<br><i>OR</i>                 | 35    |
| Certificate of Completion in<br>Project Management/Website Management                      | 32    |

**Restricted Electives: 3-28**

*Choose 3-28 credits from the following:*

|   |      |
|---|------|
| BPCxxx    Any Business-Personal<br>Computers course<br><br><i>OR</i>  | .5-4 |
| CISxxx    Any Computer Information<br>Systems course<br><br><i>OR</i> | 1-4  |
| OASxxx    Any Office Automation Systems<br>course                     | .5-4 |

**General Studies Requirements: 25**

**General Studies Core: 15**

|   |   |
|---|---|
| First-Year Composition                              | 6 |
| ENG101*    First-Year Composition (3)<br><i>AND</i> |   |
| ENG102*    First-Year Composition (3)               |   |
| Oral Communication                                  | 3 |
| COM100    Introduction to Human Communication       |   |

|   |   |
|---|---|
| Mathematics   | 3 |
| MAT102*    Mathematical Concepts/Applications (3)<br><i>OR</i>            |   |
| MATxxx*    Any higher level MAT course (3)                                |   |
| Critical Reading  | 3 |
| CRE101*    Critical and Evaluative Reading I (3)<br><i>OR</i>             |   |
| CRE111*    Critical Reading for Business<br>and Industry (3)<br><i>OR</i> |   |
| Equivalent as indicated by assessment                                     |   |

**General Studies Distribution: 10**

|   |   |
|---|---|
| Humanities and Fine Arts  | 3 |
| Any approved general studies course in the Humanities and Fine Arts area.       |   |
| Natural Sciences  | 4 |
| Any approved general studies course in the Natural Sciences area.               |   |
| Social and Behavioral Sciences  | 3 |
| Any approved general studies course in the Social and Behavioral Sciences area. |   |

**Certificate(s) or Degree(s) Awarded:**

|   |  |
|---|--|
| Certificate of Completion in:<br>Computer Technology (16 credits)<br>Networking (37 credits)<br>Web Master (34 credits)<br>Desktop Publishing (33 credits)<br>Technology Troubleshooting and A+ Preparation<br>(35 credits)<br>Technology Helpdesk Support (32 credits)<br>Programming (37 credits)<br>Business Office Technology (34-35 credits)<br>e-Commerce/Website Management (35 credits)<br>Project Management/Website Management (32 credits) |  |
|---|--|

Associate in Applied Science in:  
Computer Technology (64 credits)

Students must earn a grade "C" or better for all courses required within the program.

Minimum GPA 2.00

*\* Indicates course has a Prerequisite and/or Corequisite.*

## Dental Assisting

### Certification of Completion in AzDA Clinical Dental Assisting

The Arizona Dental Association (AzDA) Clinical Dental Assisting Program will prepare students to practice entry-level clinical dental assisting. The distance education format and frequent enrollment opportunities allow for flexibility in program completion. The program is a blend of academic and clinical coursework that requires attention to detail and motivation to complete tasks on a timeline. Courses must be taken in specific chronological order with the internship course requirements completed in partnership with a practicing dentist who is a member of the Arizona Dental Association.



|  |           |
|--|-----------|
| <b>Required Courses:</b>                           | <b>23</b> |
| CDA101* Orientation to Clinical Dental Assisting   | 1         |
| CDA102* Introduction to Dental Office Management   | 1         |
| CDA110* Infection Control and Hazard Communication | 2         |
| CDA115* Dental Anatomy and Pathology               | 3         |
| CDA120* Clinical Patient Management                | 1         |
| CDA125* Dental Materials                           | 3         |
| CDA220* Clinical Dental Assisting I                | 2         |
| CDA230* Clinical Dental Assisting II               | 2         |
| CDA240* Dental Radiographic Imaging                | 3         |
| CDA280* Clinical Dental Assistant Practicum        | 1         |
| CDA290* Internship for Clinical Dental Assistants  | 4         |

### Certificate(s) or Degree(s) Awarded:

Certificate of Completion in:  
Arizona Dental Association Clinical Dental Assisting  
(23 credits)

Students must earn a grade “C” or better for all courses required within the program.

Minimum GPA 2.00

## Dental Hygiene

The Association in Applied Science degree in Dental Hygiene, a shared program with Phoenix College and Rio Salado College, will prepare students to practice entry-level dental hygiene. Dental hygiene students will provide preventive and therapeutic services, and will develop a commitment to the community through extramural opportunities serving diverse populations. The program is a blend of academic and clinical coursework that requires attention to detail and motivation to complete tasks on a timeline. Graduates are eligible for board examinations and licensure in all fifty states. The program is accredited by the Commission on Dental Accreditation of the American Dental Association (211 East Chicago Avenue, Chicago, IL 60611-2678). The Commission is a specialized accrediting body recognized by the United States Department of Education.

### Associate in Applied Science in Dental Hygiene

#### Program Notes

Students must earn a grade of “C” or better for all courses required within the program. Students must complete all program prerequisites before enrolling in the program. All General Studies requirements are met by program prerequisites as indicated. Students should consult with an advisor in selecting courses to meet the General Studies areas.

#### Admission Criteria

Program information is available from Dental Hygiene advisors in the Student Services department. Application packets are available June 1st and are accepted through September 1st. The program prerequisites must be completed prior to enrollment with a letter grade of “C” or above.

#### Program Prerequisites: **34.5-38.5**

*Please note: Due to the application period, changes to program prerequisites may not be reflected in this catalog. Please contact the Dental Hygiene advisors at 480-517-8540 for more information.*

#### Option 1: **34.5**

HCC courses are waived for students who have completed an Associate in Applied Science degree or higher degree in a health science discipline from a regionally accredited institution of higher education recognized by Maricopa County Community College District.

|           |  |    |
|-----------|--|----|
| BIO162    | Microbiology Concepts for Allied Health  | 2  |
| CHM138*   | Chemistry for Allied Health  | 3  |
| CHM138LL* | Chemistry for Allied Health Lab  | 1  |
| HCC109    | CPR for Health Care Provider (.5)  |    |
|           | <i>OR</i>  |    |
|           | Current CPR certification at the health care provider professional rescuer level | .5 |

\* Indicates course has a Prerequisite and/or Corequisite.

**Dental Hygiene**

|  |             |  |  |           |
|--|-------------|--|--|-----------|
| <b>Option 2:</b>   | <b>34.5</b> |  |  |           |
| HCC courses are to be waived for the student who has 6 months documented experience as a dental assistant or in other related dental patient care activities. Prospective students with health care licensure are also exempt from the HCC courses for the Dental Hygiene program. |             |  |  |           |
| BIO162      Microbiology Concepts for Allied Health  | 2           |  |  |           |
| CHM138*    Chemistry for Allied Health   | 3           |  |  |           |
| CHM138LL* Chemistry for Allied Health Lab  | 1           |  |  |           |
| HCC109      CPR for Health Care Provider (.5)  |             |  |  |           |
| <i>OR</i>  |             |  |  |           |
| Current CPR certification at the health care provider professional rescuer level   | .5          |  |  |           |
| <b>Option 3:</b>   | <b>38.5</b> |  |  |           |
| BIO162      Microbiology Concepts for Allied Health  | 2           |  |  |           |
| CHM138*    Chemistry for Allied Health   | 3           |  |  |           |
| CHM138LL* Chemistry for Allied Health Lab  | 1           |  |  |           |
| HCC109      CPR for Health Care Provider (.5)  |             |  |  |           |
| <i>OR</i>  |             |  |  |           |
| Current CPR certification at the health care provider professional rescuer level   | .5          |  |  |           |
| HCC130      Fundamentals in Health Care Delivery (3)   |             |  |  |           |
| <i>OR</i>  |             |  |  |           |
| HCC130AA   Health Care Today (.5)  |             |  |  |           |
| <i>AND</i>   |             |  |  |           |
| HCC130AB   Workplace Behaviors in Health Care (.5)   |             |  |  |           |
| <i>AND</i>   |             |  |  |           |
| HCC130AC   Personal Wellness and Safety (.5)   |             |  |  |           |
| <i>AND</i>   |             |  |  |           |
| HCC130AD   Communication and Teamwork in Health Care Organizations (.5)  |             |  |  |           |
| <i>AND</i>   |             |  |  |           |
| HCC130AE   Legal and Ethical Issues in Health Care (.5)  |             |  |  |           |
| <i>AND</i>   |             |  |  |           |
| HCC130AF   Decision Making in the Health Care Setting (.5)   | 3           |  |  |           |
| HCC145AA   Medical Terminology for Health Care Workers I   | 1           |  |  |           |
| <b>General Studies Requirements:</b>   | <b>28</b>   |  |  |           |
| <b>General Studies Core:</b>   | <b>15</b>   |  |  |           |
| First-Year Composition   | 6           |  |  |           |
| Any approved general studies course in the First-Year Composition area.  |             |  |  |           |
| Oral Communication   | 3           |  |  |           |
| Any approved general studies course in the Oral Communication area.  |             |  |  |           |
|  |             | Critical Reading   |  | 3         |
|  |             | CRE101*    Critical and Evaluative Reading I (3)   |  |           |
|  |             | <i>OR</i>  |  |           |
|  |             | Equivalent as indicated by assessment  |  |           |
|  |             | Mathematics  |  | 3         |
|  |             | MAT102*    Mathematical Concepts/Applications (3)  |  |           |
|  |             | <i>OR</i>  |  |           |
|  |             | Satisfactory completion of a higher MAT course (3)                                       |  |           |
|  |             | <i>OR</i>  |  |           |
|  |             | Equivalent by assessment   |  |           |
|  |             | <b>General Studies Distribution:</b>   |  | <b>13</b> |
|  |             | Humanities and Fine Arts   |  | 3         |
|  |             | Any approved general studies course in the Humanities and Fine Arts area.                |  |           |
|  |             | Social and Behavioral Sciences   |  | 6         |
|  |             | PSY101      Introduction to Psychology (3)   |  |           |
|  |             | <i>AND</i>   |  |           |
|  |             | SOC101      Introduction to Sociology (3)  |  |           |
|  |             | Natural Sciences   |  | 4         |
|  |             | BIO160      Introduction to Human Anatomy & Physiology                                   |  |           |
|  |             | <b>Required Courses:</b>   |  | <b>58</b> |
|  |             | DHE110*    Pharmacology  |  | 3         |
|  |             | DHE112*    Oral Pathology  |  | 3         |
|  |             | DHE114*    Emergency Medicine  |  | 2         |
|  |             | DHE119*    Head and Neck Anatomy   |  | 3         |
|  |             | DHE120*    Pre-Clinical Dental Hygiene   |  | 6         |
|  |             | DHE122*    Dental Anatomy, Embryology and Histology                                      |  | 2         |
|  |             | DHE124*    Dental Radiography  |  | 2         |
|  |             | DHE125*    Dental Radiography Lab  |  | 1         |
|  |             | DHE127*    Prevention of Dental Disease  |  | 3         |
|  |             | DHE132*    Dental Hygiene Theory I   |  | 3         |
|  |             | DHE133*    Dental Hygiene Clinic I   |  | 3         |
|  |             | DHE203*    Dental Materials  |  | 2         |
|  |             | DHE204*    Dental Materials Lab  |  | 1         |
|  |             | DHE212*    Dental Hygiene Theory II  |  | 2         |
|  |             | DHE213*    Dental Hygiene Clinic II  |  | 5         |
|  |             | DHE219*    Practice Management   |  | 2         |
|  |             | DHE225*    Periodontics  |  | 3         |
|  |             | DHE227*    Dental Anesthesia   |  | 2         |
|  |             | DHE229*    Community Oral Health   |  | 3         |
|  |             | DHE232*    Dental Hygiene Theory III   |  | 2         |
|  |             | DHE233*    Dental Hygiene Clinic III   |  | 5         |
|  |             | <b>Certificate(s) or Degree(s) Awarded:</b>  |  |           |
|  |             | Associate in Applied Science in:   |  |           |
|  |             | Dental Hygiene (92.5-96.5 credits)   |  |           |
|  |             | Students must earn a grade of "C" or better for all courses required within the program. |  |           |
|  |             | Minimum GPA 2.00   |  |           |

*\* Indicates course has a Prerequisite and/or Corequisite.*

## Education

Rio Salado offers many education courses that lead to teacher certifications and endorsements from the Arizona Department of Education. Courses are designed "For Teachers, By Teachers" and are:

- offered in a distance learning-Internet format
- based on the current national education and technology standards
- cost-effective
- accepted by most districts for salary increases.

For more information on these courses, see pages 46-47.



## Organizational Leadership

This program is designed to provide students with knowledge and skills to meet the challenges of a changing workplace. Courses will prepare students by developing leadership and communication skills and techniques for planning, directing and evaluating business situations. This program will also present procedures for effective allocation of time, money, materials, space and personnel.

### Certificate of Completion in Organizational Leadership

**Required Courses: 17-18**

|           |  |     |
|-----------|--|-----|
| CIS105    | Survey of Computer Information Systems (3)   |     |
| <i>OR</i> |  |     |
| BPC110    | Computer Usage and Applications (3)          | 3   |
| GBS110    | Human Relations in Business and Industry (3) |     |
| <i>OR</i> |  |     |
| MGT251    | Human Relations in Business (3)              | 3   |
| GBS233*   | Business Communication (3)                   |     |
| <i>OR</i> |  |     |
| TQM105*   | Writing for Quality Results (2)              | 2-3 |
| MGT175    | Business Organization and Management         | 3   |
| GBS151    | Introduction to Business                     | 3   |
| MGT101    | Techniques of Supervision (3)                |     |
| <i>OR</i> |  |     |
| MGT229    | Management and Leadership I (3)              | 3   |

### Certificate of Completion in Quality Process Leadership

**Required Courses: 14**

|           |  |   |
|-----------|--|---|
| TQM201    | Total Quality Concepts                         | 2 |
| TQM214    | Principles of Process Improvement              | 2 |
| TQM220    | Leadership and Empowerment Strategies          | 2 |
| TQM230    | Teamwork Dynamics                              | 2 |
| TQM235    | Motivation, Evaluation and Recognition Systems | 2 |
| TQM240    | Project Management in Quality Organizations    | 2 |
| TQM290AA* | TQM Internship                                 | 1 |
| TQM292*   | Innovation Strategies                          | 1 |

*\* Indicates course has a Prerequisite and/or Corequisite.*

Organizational Leadership

|                              |                                      |          |
|------------------------------|--------------------------------------|----------|
| <b>Restricted Electives:</b> |                                      | <b>3</b> |
| COM110                       | Interpersonal Communication          | 3        |
| GBS175                       | Professional Development             | 3        |
| MGT172                       | Organizations, Paradigms, and Change | 1        |
| MGT229                       | Management and Leadership I          | 3        |
| MGT230*                      | Management and Leadership II         | 3        |
| MGT251                       | Human Relations in Business          | 3        |
| TQM101                       | Quality Customer Service             | 3        |
| TQM105*                      | Writing for Quality Results          | 2        |
| TQM200                       | Leadership for Front-Line Employees  | 2        |
| TQM205                       | Managing Diversity                   | 2        |



**Associate in Applied Science in Organizational Leadership**

|   |  |              |
|---|--|--------------|
| <b>Required Courses:</b>  |  | <b>17-18</b> |
| Certificate of Completion in Quality Process Leadership   |  | 17           |
| <i>OR</i>   |  |              |
| Certificate of Completion in Organizational Leadership  |  | 17-18        |
| <b>Restricted Electives:</b>  |  | <b>19-22</b> |
| Students will choose one of two tracks for a total of 19-22 credits.  |  |              |
| <b>Track 1</b>  |  | <b>17-18</b> |
| Certificate of Completion in Quality Process Leadership   |  | 17           |
| <i>OR</i>   |  |              |
| Certificate of Completion in Organizational Leadership  |  | 17-18        |
| In addition, students must choose 2-4 industry/job specific elective credits and have them approved by the department chair.  |  |              |
|   |  | 2-4          |
| <b>Track 2</b>  |  | <b>19-22</b> |
| Students must choose 19-22 industry/job specific elective credits and have them approved by the department chair. These industry/job specific credits must include a minimum of 9 credits with a common prefix. These restricted electives must be chosen from the core requirements of an AAS Degree program, Certificate or a specialized program of study. |  |              |
| <b>General Studies Requirements:</b>  |  | <b>25-27</b> |
| <b>General Studies Core:</b>  |  | <b>15-17</b> |
| First-Year Composition  |  | 6            |
| Any approved general studies course in the First-Year Composition area.   |  |              |

|  |  |            |
|--|--|------------|
| <b>Oral Communication</b>  |  | <b>3</b>   |
| Any approved general studies course in the Oral Communication area.                      |  |            |
| <b>Critical Reading</b>  |  | <b>3</b>   |
| Any approved general studies course in the Critical Reading area.                        |  |            |
| <b>Mathematics</b>   |  | <b>3-5</b> |
| Any approved general studies course in the Mathematics area.                             |  |            |
| <b>General Studies Distribution:</b>   |  | <b>10</b>  |
| <b>Humanities and Fine Arts</b>  |  | <b>3</b>   |
| Any approved general studies course in the Humanities and Fine Arts area.                |  |            |
| <b>Natural Sciences</b>  |  | <b>4</b>   |
| Any approved general studies course in the Natural Sciences area.                        |  |            |
| <b>Social and Behavioral Sciences</b>  |  | <b>3</b>   |
| Any approved general studies course in the Social and Behavioral Sciences area.          |  |            |
| <b>Certificate(s) or Degree(s) Awarded:</b>  |  |            |
| Certificate of Completion in:  |  |            |
| Quality Process Leadership (17 credits)  |  |            |
| Organizational Leadership (17-18 credits)  |  |            |
| Associate in Applied Science in:   |  |            |
| Organizational Leadership (64-67 credits)  |  |            |
| Students must earn a grade of "C" or better for all courses required within the program. |  |            |
| <b>Minimum GPA 2.00</b>  |  |            |

\* Indicates course has a Prerequisite and/or Corequisite.

## Programming and System Analysis

In depth exploration of different computer language and technical skills. Includes operating systems, local area networks, business communication, team roles, and dynamics.

### Certificate of Completion in Programming and System Analysis

**Program Prerequisites:** 3

CRE101\* Critical and Evaluative Reading I (3)  
*OR*

Equivalent by Assessment (3)

**Required Courses:** 31

|           |  |   |
|-----------|--|---|
| CIS105    | Survey of Computer Information Systems   | 3 |
| CIS121AB  | MS-DOS Operating System (1)<br><i>OR</i> |   |
| CIS121AE  | Windows Operating System: Level I (1)    | 1 |
| CIS150*   | Programming Fundamentals                 | 3 |
| CIS159*   | Visual Basic Programming I               | 3 |
| CIS162*   | C Programming I (any module)             | 3 |
| CIS163AA* | Java Programming: Level I                | 3 |
| CIS190*   | Introduction to Local Area Networks      | 3 |
| CIS225*   | Business Systems Analysis and Design     | 3 |
| CIS250*   | Management Information Systems           | 3 |
| GBS233*   | Business Communication                   | 3 |
| TQM204    | Team Roles and Dynamics                  | 3 |

### Associate in Applied Science in Programming and System Analysis

**Program Prerequisites:** 3

CRE101\* Critical and Evaluative Reading I (3)  
*OR*

Equivalent by Assessment (3)

**Required Courses:** 31

Certificate of Completion in Programming and System Analysis 31

**Restricted Electives:** 12

Students must complete a total of 12 credits with a grade of "C" or better in each course in the Restricted Electives area.

|          |                                       |   |
|----------|---------------------------------------|---|
| CIS117DM | Microsoft Access: Database Management | 3 |
| CIS126DA | UNIX Operating System                 | 3 |

|           |   |   |
|-----------|---|---|
| CIS158*   | COBOL Programming I                     | 3 |
| CIS259*   | Visual Basic Programming II             | 3 |
| CIS262xx* | C: Level II (any module)                | 3 |
| CIS263AA* | Java Programming: Level II              | 3 |
| CIS290AC* | Computer Information Systems Internship | 3 |

**General Studies Requirements:** 22

**General Studies Core:** 12

First-Year Composition 6

ENG101\* First-Year Composition (3)  
*OR*

ENG107\* First-Year Composition for ESL (3)  
*AND*

ENG102\* First-Year Composition (3)  
*OR*

ENG108\* First-Year Composition for ESL (3)

**Oral Communication** 3

Any approved general studies course in the Oral Communication area.

**Critical Reading** 0

Met by CRE101 in Program Prerequisites area.

**Mathematics** 3

MAT212\* Brief Calculus

**General Studies Distribution:** 10

**Humanities and Fine Arts** 3

Any approved general studies course in the Humanities and Fine Arts area.

**Natural Sciences** 4

Any approved general studies course in the Natural Sciences area.

**Social and Behavioral Sciences** 3

ECN111 Macroeconomic Principles (3)  
*OR*

ECN112 Microeconomic Principles (3)

**Certificate(s) or Degree(s) Awarded:**

Certificate of Completion in:  
Programming and System Analysis (31 credits)

Associate in Applied Science in:  
Programming and System Analysis (65 credits)

Students must earn a grade of "C" or better for all courses required within the program.

**Minimum GPA 2.00**

*\* Indicates course has a Prerequisite and/or Corequisite.*



Public Administration

## Public Administration

The Public Administration Certificate of Completion and Associate in Applied Science degree are designed to meet the needs of employees of government agencies and those desiring employment or advancement in government agencies. The program covers the history, present and future of public administration. Courses include topics on finance, communication, organizational behavior, team-work and management styles.

### Certificate of Completion in Public Administration

**Required Courses:** 15

|           |  |   |
|-----------|--|---|
| BPCxxx    | Any Business-Personal Computers course(s) (3)  |   |
| <i>OR</i> |  |   |
| CISxxx    | Any Computer Information Systems course(s) (3) | 3 |
| PAD101    | Survey of Public Administration                | 3 |
| PAD107    | Public Finance Administration                  | 3 |
| PAD122*   | Public Sector/Human Resources Management       | 3 |
| PAD170    | Public Sector Organizational Behavior          | 3 |

### Associate in Applied Science in Public Administration

**Required Courses:** 15

Certificate of Completion in Public Administration 15

**Restricted Electives:** 24

|         |   |     |
|---------|---|-----|
| ECN111  | Macroeconomic Principles                          | 3   |
| ECN112  | Microeconomic Principles                          | 3   |
| GBS205  | Legal, Ethical, and Regulatory Issues in Business | 3   |
| GBS233* | Business Communication                            | 3   |
| HSAxxx  | Any Human Services Administration course(s)       | 1-4 |
| LETxxx  | Any Law Enforcement Technology course(s)          | 1-4 |
| MGT172  | Organizations, Paradigms, and Change              | 1   |
| PADxxx  | Any Public Administration course                  | 3   |
| POS110  | American National Government                      | 3   |
| POS221  | Arizona Constitution                              | 1   |
| PSY101  | Introduction to Psychology                        | 3   |
| SOC101  | Introduction to Sociology                         | 3   |
| SOC212  | Women and Men in a Changing Society               | 3   |

|         |   |     |
|---------|---|-----|
| TQM101  | Quality Customer Service                    | 3   |
| TQM105* | Writing for Quality Results                 | 2   |
| TQM230  | Teamwork Dynamics                           | 2   |
| WOAxxx  | Any Welfare Office Administration course(s) | 2-4 |

**General Studies Requirements:** 25

**General Studies Core:** 15

First-Year Composition 6

ENG101\* First-Year Composition (3)

*AND*

ENG102\* First-Year Composition (3)

*OR*

ENG111\* Technical Writing (3)

Oral Communication 3

COM100 Introduction to Human Communication (3)

*OR*

COM230\* Small Group Communication (3)

Critical Reading 3

CRE101\* Critical and Evaluative Reading I (3)

*OR*

CRE111\* Critical Reading for Business and Industry (3)

Mathematics 3

MAT102\* Mathematical Concepts/Applications (3)

*OR*

MAT122\* Intermediate Algebra (3)

**General Studies Distribution:** 10

Humanities and Fine Arts 3

Any approved general studies course in the Humanities and Fine Arts area.

Natural Sciences 4

Any approved general studies course in the Natural Sciences area.

Social and Behavioral Sciences 3

Any approved general studies course in the Social and Behavioral Sciences area.

**Certificate(s) or Degree(s) Awarded:**

Certificate of Completion in:  
Public Administration (15 credits)

Associate in Applied Science in:  
Public Administration (64 credits)

Students must earn a grade of "C" or better for all courses required within the program.

Minimum GPA 2.00

\* Indicates course has a Prerequisite and/or Corequisite.

Quality Customer Service

## Quality Customer Service

### Certificate of Completion in Quality Customer Service

The certificate is designed to provide students with training to meet the requirements for employment. Courses will be offered in Customer Service, Teamwork, Communication Skills (both written and oral), and Professional Development.

**Required Courses: 13**

|         |                             |   |
|---------|-----------------------------|---|
| COM110  | Interpersonal Communication | 3 |
| GBS175  | Professional Development    | 3 |
| TQM101  | Quality Customer Service    | 3 |
| TQM105* | Writing for Quality Results | 2 |
| TQM230  | Teamwork Dynamics           | 2 |

**Restricted Electives: 3**

*Choose 3 credits from the following:*

|          |                                      |   |
|----------|--------------------------------------|---|
| BPC117xx | (any module)                         | 1 |
| BPC130xx | (any module)                         | 1 |
| MGT172   | Organizations, Paradigms, and Change | 1 |
| TQM200   | Leadership for Front-Line Employees  | 2 |
| TQM205   | Managing Diversity                   | 2 |

### Associate in Applied Science in Quality Customer Service

The Associate in Applied Science degree in Quality Customer Service is designed to provide students with training to meet the requirements for employment. Courses will be offered in Customer Service, Teamwork, Communication Skills (both written and oral), and Professional Development.

**Required Courses: 16**

Certificate of Completion in Quality Customer Service 16

**Restricted Electives: 23**

Students must choose 23 industry/job specific elective credits and have them approved by the department chair. These industry/job specific credits must include a minimum of 9 credits with a common prefix. These restricted electives must be chosen from the core requirements of an AAS Degree program, Certificate, or specialized program of study.

**General Studies Requirements: 25**

**General Studies Core: 15**

First-Year Composition 6

ENG101\* First-Year Composition (3)

AND

ENG102\* First-Year Composition (3)

OR

ENG111\* Technical Writing (3)  
Oral Communication 3

COM230\* Small Group Communication

Critical Reading 3

CRE101\* Critical and Evaluative Reading I (3)

OR

CRE111\* Critical Reading for Business and Industry (3)

OR

Equivalent as indicated by assessment

Mathematics 3

MAT102\* Mathematical Concepts/Applications (3)

OR

Any higher level MAT course

**General Studies Distribution: 10**

Humanities and Fine Arts 3

Any approved general studies course in the Humanities and Fine Arts area.

Natural Sciences 4

Any approved general studies course in the Natural Sciences area.

Social and Behavioral Sciences 3

Any approved general studies course in the Social and Behavioral Sciences area.

**Certificate(s) or Degree(s) Awarded:**

Certificate of Completion in:

Quality Customer Service (16 credits)

Associate in Applied Science:

Quality Customer Service (64 credits)

Students must earn a grade of "C" or better for all courses required within the program.

Minimum GPA 2.00

The following certificates of completion are limited to Rio Salado's Educational Partnership Programs (see pages 111-113):

- Credit Card - Customer Service
- Human Services - Assistance: Customer Service
- Human Services - Eligibility: Customer Service
- Human Services - Specialist: Customer Service
- Telecommunications: Customer Service
- Travel Agency: Customer Service
- Utilities: Customer Service

\* Indicates course has a Prerequisite and/or Corequisite.

Water/Wastewater Technology

## Water/Wastewater Technology

### Certificate of Completion in Water Treatment

The Water Treatment certificate is designed to provide students with knowledge and skills to meet the challenges of working in the water treatment field. Courses will prepare students by developing skills in the operation and maintenance of a water treatment plant. This program will also examine effective preparation, analyzation and interpretation of water samples, along with the public control components of the societal water cycle.

**Required Courses:** 12

|         |  |   |
|---------|--|---|
| WWM110  | Principles of Water Treatment Plant Operations | 3 |
| WWM112* | Basic Water Treatment Processes                | 3 |
| WWM114* | Mineral Control                                | 3 |
| WWM116* | Water Treatment Plant Administration           | 3 |

**Restricted Electives:** 3

*Choose 3 credits from the following:*

|            |  |      |
|------------|--|------|
| BPC/CISxx  | Any BPC/CIS Course                     | .5-3 |
| BIO100     | Biology Concepts                       | 4    |
| BIO181     | General Biology (Majors) I             | 4    |
| CHM130*    | Fundamental Chemistry (3)              | 3    |
| <i>AND</i> |  |      |
| CHM130LL*  | Fundamental Chemistry Lab (1)          | 1    |
| ENG101*    | First-Year Composition                 | 3    |
| ENG111*    | Technical Writing                      | 3    |
| MAT102*    | Mathematical Concepts/Applications (3) |      |
| <i>OR</i>  |  |      |
|            | Any higher numbered MAT course         | 3    |

### Certification of Completion in Wastewater Treatment

The Wastewater Treatment certificate is designed to provide students with knowledge and skills to meet the challenges of working in a Wastewater Treatment Plant. Courses will prepare students by developing skills in the operation and maintenance of wastewater treatment plants. This program will also present procedures for effective preparation, analyzation and interpretation of water samples, and the treatment of wastewater for disease control.

**Required Courses:** 12

|         |  |   |
|---------|--|---|
| WWM120  | Operation of Wastewater Treatment Plants | 3 |
| WWM122* | Basic Wastewater Treatment Processes     | 3 |

|         |                                 |   |
|---------|---------------------------------|---|
| WWM124* | Sludge and Solids Handling      | 3 |
| WWM126* | Wastewater Plant Administration | 3 |

**Restricted Electives:** 3

*Choose 3 credits from the following:*

|            |  |      |
|------------|--|------|
| BPC/CISxx  | Any BPC/CIS Course                     | .5-3 |
| BIO100     | Biology Concepts                       | 4    |
| BIO181     | General Biology (Majors) I             | 4    |
| CHM130*    | Fundamental Chemistry (3)              | 3    |
| <i>AND</i> |  |      |
| CHM130LL*  | Fundamental Chemistry Lab (1)          | 1    |
| ENG101*    | First-Year Composition                 | 3    |
| ENG111*    | Technical Writing                      | 3    |
| MAT102*    | Mathematical Concepts/Applications (3) |      |
| <i>OR</i>  |  |      |
|            | Any higher numbered MAT course (3)     | 3    |

### Certification of Completion in Water Distribution and Collection

The Water Distribution and Collection certificate is designed to provide students with knowledge and skills to meet the challenges of working in water distribution and collection. Courses will prepare students by developing skills for determining water distribution and wastewater collection needs as well as systems design. This program will also present procedures for maintenance, inspection and control for distribution and collection.

**Required Courses:** 9

|         |   |   |
|---------|---|---|
| WWM130  | Wastewater Collection Systems Operation and Maintenance | 3 |
| WWM132* | Wastewater Collection Systems Administration            | 3 |
| WWM134  | Water Distribution System Operation and Maintenance     | 3 |

**Restricted Electives:** 6

*Choose 6 credits from the following:*

|            |  |      |
|------------|--|------|
| BPC/CISxx  | Any BPC/CIS Course                     | .5-3 |
| BIO100     | Biology Concepts                       | 4    |
| BIO181     | General Biology (Majors) I             | 4    |
| CHM130*    | Fundamental Chemistry (3)              | 3    |
| <i>AND</i> |  |      |
| CHM130LL*  | Fundamental Chemistry Lab (1)          | 1    |
| ENG101*    | First-Year Composition                 | 3    |
| ENG111*    | Technical Writing                      | 3    |
| MAT102*    | Mathematical Concepts/Applications (3) |      |
| <i>OR</i>  |  |      |
|            | Any higher numbered MAT course (3)     | 3    |

CONTINUED

\*Indicates course has a Prerequisite and/or Corequisite.

Water/Wastewater Technology

## Associate in Applied Science in Water/Wastewater Technology

The Associate in Applied Science program is designed to provide students with knowledge and skills in most facets of water and wastewater system operations. Students complete coursework in basic sciences related to water and wastewater, the processes used in water and wastewater treatment, maintenance of water and wastewater facilities, power and automatic control systems, analysis of samples and process chemistry, and written communication. Students will be prepared for eventual entry into management positions in the industry after gaining work experience.

### Required Courses: 30

|         |   |   |
|---------|---|---|
| WWM110  | Principles of Water Treatment Plant Operations          | 3 |
| WWM112* | Basic Water Treatment Processes                         | 3 |
| WWM114* | Mineral Control   | 3 |
| WWM120  | Operation of Wastewater Treatment Plants                | 3 |
| WWM122* | Basic Wastewater Treatment Processes                    | 3 |
| WWM124* | Sludge and Solids Handling                              | 3 |
| WWM130  | Wastewater Collection Systems Operation and Maintenance | 3 |
| WWM132* | Wastewater Collection Systems Administration            | 3 |
| WWM134  | Water Distribution System Operation and Maintenance     | 3 |
| WWM240* | Industrial Wastewater Treatment Regulations             | 3 |



### Restricted Electives: 9

*Choose 9 credits from the following:*

WWMxxx Any Water/Wastewater Course(s) 1-3

### General Studies Requirements: 25

### General Studies Core: 15

#### First-Year Composition 6

ENG101\* First-Year Composition (3)

*AND*

ENG111\* Technical Writing (3)

#### Oral Communication 3

COM100 Introduction to Human Communication

#### Critical Reading 3

CRE101\* Critical and Evaluative Reading I (3)

*OR*

CRE111\* Critical Reading for Business and Industry (3)

*OR*

Equivalent as indicated by assessment

#### Mathematics 3

MAT102\* Mathematical Concepts/Applications (3)

*OR*

Any higher level MAT course

### General Studies Distribution: 10

#### Humanities and Fine Arts 3

Any approved general studies course in the Humanities and Fine Arts area.

#### Natural Sciences 4

Any approved general studies course in the Natural Sciences area.

#### Social and Behavioral Sciences 3

Any approved general studies course in the Social and Behavioral Sciences area.

### Certificate(s) or Degree(s) Awarded:

Certificate of Completion in:

Water Treatment (15 credits)

Wastewater Treatment (15 credits)

Water Distribution and Collection (15 credits)

Associate in Applied Science in:

Water/Wastewater Technology (64 credits)

Students must earn a grade of "C" or better for all courses required within the program.

Minimum GPA 2.00

\* Indicates course has a Prerequisite and/or Corequisite.



# Educational Partnership Programs

The Educational Partnership Programs in Rio Salado's Applied Programs division delivers professional, affordable training and educational opportunities on-site to employees of local businesses and agencies. Credit and non-credit courses can be customized to meet specific goals and requirements. Special certificate and degree programs link college and company training to provide career-path education.

In addition, Rio Salado offers numerous classes and workshops on quality issues such as leadership, customer service, teambuilding and supervisory skills. Through distance learning and the latest technologies, the college can offer these same learning opportunities at other locations around the world. Call Educational Partnership Programs at 480-517-8525 for a consultation at no charge.

*Please Note: The following educational programs have been designed to meet the needs of specific industries or agencies. Employment by these organizations is required for registration.*

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## IN THIS SECTION

Airline Operations

Computer Technology

Corrections

Detention Services

Fire Science

Law Enforcement Technology

Quality Customer Service

Airline Operations

Modifications to programs and courses may occur throughout the academic year. For the most updated information on curriculum, see our web site at:

✓ <http://www.rio.maricopa.edu/ci/programs/>  
or to speak to an academic advisor, call 480-517-8540.

## Airline Operations

The Certificate of Completion and the Associate in Applied Science in Airline Operations are designed to provide students with the opportunity to specialize in specific areas of airline operations while still meeting the rigid FAA requirements. Students may choose to specialize in the areas of Reservations, Passenger Services, Vacations, Initial Flight Attendant, and Ground Operations.

### Certificate of Completion in Airline Operations

**Required Courses:** 10-12

Students should choose one of the following tracks:

■ **Track 1**

|                                   |                                      |    |
|-----------------------------------|--------------------------------------|----|
| Airline Operations – Reservations |                                      | 11 |
| AIR102                            | Reservations/Sales Training I        | 3  |
| AIR104*                           | Reservations/Sales Training II       | 3  |
| AIR105*                           | Automated Ticketing (3)              |    |
| <i>OR</i>                         |                                      |    |
| AIR106*                           | Reservations/Sales Training III (3)  | 3  |
| AIR110*                           | Advanced Reservations/Sales Training | 2  |

■ **Track 2**

|   |   |    |
|---|---|----|
| Airline Operations - Passenger Services |   | 11 |
| AIR102                                  | Reservations/Sales Training I               | 3  |
| AIR110*                                 | Advanced Reservations/Sales Training        | 2  |
| AIR113*                                 | Automated Ticketing and Check-In            | 3  |
| AIR115*                                 | Ticketing/Passenger Services                | 3  |
| <i>OR</i>                               |   |    |
| AIR103                                  | Basic Reservations Procedures               | 3  |
| AIR112*                                 | Airline Ticketing Procedures                | 3  |
| AIR116*                                 | Airline Gate Procedures                     | 3  |
| AIR119                                  | Baggage Service/WorldTracer System (2)      |    |
| <i>OR</i>                               |   |    |
| BPCxxx                                  | Any Business-Personal Computer Course (2)   |    |
| <i>OR</i>                               |   |    |
| CISxxx                                  | Any Computer Information Systems Course (2) | 2  |

*\* Indicates course has a Prerequisite and/or Corequisite.*

Airline Operations



**Associate in Applied Science in  
Airline Operations**

**Required Courses:** 26-28

Certificate of Completion in Airline Operations 10-12

Certificate of Completion in  
Quality Customer Service 16

**Restricted Electives:** 11-13

Students must choose 11-13 industry/job specific elective credits and have them approved by the department chair.

**General Studies Requirements:** 25

**General Studies Core:** 15

First-Year Composition 6

ENG101\* First-Year Composition (3)

*AND*

ENG102\* First-Year Composition (3)

*OR*

ENG111\* Technical Writing (3)

**Oral Communication** 3

COM100 Introduction to Human  
Communication (3)

*OR*

COM230\* Small Group Communication (3)

**Critical Reading** 3

CRE101\* Critical and Evaluative Reading I (3)

*OR*

CRE111\* Critical Reading for Business  
and Industry (3)

**Mathematics** 3

MAT102\* Mathematical Concepts/Applications (3)

*OR*

MATxxx\* Any higher level MAT course (3)

**General Studies Distribution:** 10

**Humanities and Fine Arts** 3  
Any approved general studies course in the Humanities  
and Fine Arts area.

**Natural Sciences** 4

Any approved general studies course in the Natural  
Sciences area.

**Social and Behavioral Sciences** 3

Any approved general studies course in the Social and  
Behavioral Sciences area.

**Certificate(s) or Degree(s) Awarded:**

Certificate of Completion in:

Airline Operations (10-12 credits)

Associate in Applied Science in:

Airline Operations (64 credits)

Students must earn a grade of "C" or better for all courses  
required within the program.

Minimum GPA 2.00

■ **Track 3**

Airline Operations - Vacations 11

AIR130\* Vacation Travel Product Knowledge 3

AIR132\* Tour Sales Computer Systems 2

AIR134\* Tour Sales Techniques 2

AIR136\* Vacation Travel Booking Procedures 4

■ **Track 4**

Airline Operations - Initial Flight Attendant 10

AIR118 Emergency Medical Procedures 2

AIR120\* Boeing 737 Initial Training 3

AIR122\* Boeing 737 Emergency Procedures 2

AIR124\* Boeing 757 Transition Training 2

AIR125\* Airbus 320 Transition Training 1

■ **Track 5**

Airline Operations - Ground Operations 12

AIR140\* Ramp Safety Procedures 2

AIR142\* Aircraft Dynamics 3

AIR144\* Team Lead Training 2

BPC110 Computer Usage and Applications (3)

*OR*

CIS105 Survey of Computer  
Information Systems (3) 3

BPC135xx Any Word Processing Course 2

\* Indicates course has a Prerequisite and/or Corequisite.

## Computer Technology

The Computer Technology program is designed to provide information and training on the use, application and technological developments of computers in a changing electronic environment. Coursework is aimed primarily at students interested in developing skills in the business or personal computing environment. Specifically, the basic courses provide instruction in areas which include: 1) computer applications in the business environment and current trends and developments in computers; 2) graphical applications; 3) electronic spreadsheets; 4) database; 5) word processing; 6) computer operating systems. Subsequent course work provides the student with an opportunity to specialize in: office user specialist preparation skills; systems engineer; local area networking; computer web development; business office technology; desktop publishing; troubleshooting and helpdesk support; or programming. Course requirements also include general mathematics and English skills.

## Certificate of Completion in Database Administration

The Database Administration certificate prepares students to design and implement the infrastructure for business solutions using Microsoft Windows 2000 and Microsoft Structure Query Language. Courses focus on administrative tasks and tools, protocols, network topologies, data collection, query techniques, and database creation

|   |           |
|---|-----------|
| <b>Required Courses:</b>  | <b>12</b> |
| CIS175DA* Microsoft Windows 2000 Network and Operating System Essentials            | 2         |
| CIS175DB* Implementing Microsoft Windows 2000 Professional                          | 3         |
| CIS175EA Introduction to Structured Query Language                                  | 1         |
| CIS275CI* System Administration for Microsoft Structured Query Language Server 7.0  | 3         |
| CIS275CJ* Implementing a Database on Microsoft Structured Query Language Server 7.0 | 3         |

## Certificate of Completion in Basic Systems Engineer

The Basic Systems Engineer certificate prepares students to implement, maintain and support information systems using Microsoft Windows 2000 operating system. Courses will cover the boot process, printing components, and diagnostic utilities. The installation and configuration of the Transfer Control Protocol/Internet Protocol (TCP/IP) is also covered.

|   |           |
|---|-----------|
| <b>Required Courses:</b>  | <b>11</b> |
| CIS175CE* Supporting Microsoft Windows 2000 Network Infrastructure        | 3         |
| CIS175CF* Implementing and Administering Microsoft Windows 2000 Directory | 3         |
| CIS175DA* Microsoft Windows 2000 Network and Operating System Essentials  | 2         |
| CIS175DB* Implementing Microsoft Windows 2000 Professional                | 3         |

## Certificate of Completion in Advanced Systems Engineer

The Advanced Systems Engineer certificate prepares students to design directory services, migration strategy and security framework using Microsoft Windows 2000. Courses focus on domain design, site topology design, planning process, deployment techniques and file resources.

|  |           |
|--|-----------|
| <b>Required Courses:</b>   | <b>12</b> |
| BPC170* Computer Maintenance I: A+ Preparation                               | 3         |
| CIS175CB* Designing Microsoft Windows 2000 Directory Services Infrastructure | 2         |
| CIS175CD* Designing Microsoft Windows 2000 Migration Strategy                | 1         |
| CIS175CG Designing A Secure Microsoft Windows 2000 Network                   | 3         |
| CIS176NA Novell Network Plus (3)   |           |
| <i>OR</i>  |           |
| CIS191DE* Novell NetWare 5 System Administration (3)                         | 3         |

See pages 87-90 for the following Certificates of Completion:

- Business Office Technology
- Computer Technology
- Desktop Publishing
- e-Commerce/Website Management
- Networking
- Programming
- Project Management/Website Management
- Technology Helpdesk Support
- Technology Troubleshooting and A+ Preparation
- Web Master

\* Indicates course has a Prerequisite and/or Corequisite.



Computer Technology

**Associate in Applied Science in  
Computer Technology**

**Required Courses: 11-37**

Certificate of Completion in Database Administration 12  
*OR*

Certificate of Completion in Basic Systems Engineer 11  
*OR*

Certificate of Completion in Advanced Systems Engineer 12

**Restricted Electives: 3-28**

*Choose from 3-28 credits from the following:*

BPCxxx Any Business-Personal Computers course .5-4

*OR*

CISxxx Any Computer Information Systems course 1-4

*OR*

OASxxx Any Office Automation Systems course .5-4

**General Studies Requirements: 25**

**General Studies Core: 15**

First-Year Composition 6

ENG101\* First-Year Composition (3)  
*AND*

ENG102\* First-Year Composition (3)

Oral Communication 3

COM100 Introduction to Human Communication

Critical Reading 3

CRE101\* Critical and Evaluative Reading I (3)  
*OR*

CRE111\* Critical Reading for Business and Industry (3)

*OR*

Equivalent as indicated by assessment

Mathematics 3

MAT102\* Mathematical Concepts/Applications (3)  
*OR*

MATxxx\* Any higher level MAT course (3)

**General Studies Distribution: 10**

Humanities and Fine Arts 3  
Any approved general studies course in the Humanities and Fine Arts area.

Natural Sciences 4  
Any approved general studies course in the Natural Sciences area.

Social and Behavioral Sciences 3  
Any approved general studies course in the Social and Behavioral Sciences area.

**Certificate(s) or Degree(s) Awarded:**

Certificate of Completion in:  
Database Administration (12 credits)  
Basic Systems Engineer (11 credits)  
Advanced Systems Engineer (12 credits)

Associate in Applied Science in:  
Computer Technology (64 credits)

Students must earn a grade of "C" or better for all courses required within the program.

Minimum GPA 2.00



*\* Indicates course has a Prerequisite and/or Corequisite.*



## Corrections

The Corrections Program is designed to prepare students who are interested in a career in the field of corrections and will also upgrade the skills of those officers currently working in the field. Students will develop skills to meet the challenges of working with different types of inmates and the problems encountered with these individuals. Courses in the Certificate of Completion in Basic Corrections will cover ethics, management skills, conflict and crisis management techniques, and security procedures. The Certificate of Completion in Advanced Corrections will cover the areas of supervision, political science, communication, psychology and sociology.

### Certificate of Completion in Basic Corrections

The Certificate of Completion in Basic Corrections will prepare students for a career in the field of corrections. Courses are designed to prepare students with the skills needed to meet the challenges of working in a correctional facility. Courses cover the topics of inmate management techniques, ethics and professionalism, conflict and crisis management skills in addition to security procedures and weapons training.

|                          |   |           |
|--------------------------|---|-----------|
| <b>Required Courses:</b> |   | <b>18</b> |
| LET160*                  | Correctional Systems Ethics and Professionalism | 1         |
| LET162*                  | Introduction to Inmate Management               | 3         |
| LET164*                  | Correctional Information Systems                | 1         |
| LET166*                  | Correction Officers Safety and Weapons Training | 2         |
| LET168*                  | Inmate Security Procedures                      | 2         |
| LET170*                  | Security, Custody and Control Procedures        | 2         |
| LET172*                  | Conflict and Crisis Management                  | 2         |
| LET176*                  | Medical and Mental Health                       | 2         |
| LET178*                  | Physical Fitness and Self Defense Training      | 3         |

*\* Indicates course has a Prerequisite and/or Corequisite.*

Corrections

**Certificate of Completion in  
Advanced Corrections**

The Certificate of Completion in Advanced Corrections is designed for corrections officers seeking advancement in the corrections field. Courses will focus on supervision techniques, interpersonal communication, and the constitutions of the United States and the State of Arizona. Officers will also study basic psychology principles and sociology concepts.

**Required Courses: 33**

|  |    |
|--|----|
| Certificate of Completion in Basic Corrections           | 18 |
| LET161 Correctional Sergeant's Leadership Procedures (3) |    |
| <i>OR</i>  |    |
| MGT229 Management and Leadership I (3)                   |    |
| <i>OR</i>  |    |
| PAD116 Supervisory Training for DOC Employees (3)        | 3  |
| COM110 Interpersonal Communication                       | 3  |
| POS220 U.S. and Arizona Constitution (3)                 |    |
| <i>OR</i>  |    |
| POS221 Arizona Constitution (1)                          |    |
| <i>AND</i>   |    |
| POS222 U.S. Constitution (2)                             | 3  |
| PSY101 Introduction to Psychology                        | 3  |
| SOC101 Introduction to Sociology                         | 3  |

**Restricted Electives: 6**

|  |   |
|--|---|
| CIS105 Survey of Computer Information Systems        | 3 |
| CIS133DA The Internet/World Wide Web                 | 3 |
| COM263 Elements of Intercultural Communication       | 3 |
| LET161 Correctional Sergeant's Leadership Procedures | 3 |
| MGT229 Management and Leadership I                   | 3 |
| PAD116 Supervisory Training for DOC Employees        | 3 |
| PHI243 World Religions                               | 3 |
| POS100 Introduction to Political Science             | 3 |
| PSY2xx* Any 200 Level Psychology Course              | 3 |
| SOC2xx* Any 200 Level Sociology Course               | 3 |
| SPA101 Elementary Spanish I                          | 4 |
| SPA115 Beginning Spanish Conversation I              | 3 |
| SPA102* Elementary Spanish II                        | 4 |

**Associate in Applied Science in Corrections**

**Required Courses: 39**

|  |    |
|--|----|
| Certificate of Completion in Basic Corrections   | 18 |
| Certificate of Completion in Advanced Corrections  | 21 |
| <b>General Studies Requirements: 25</b>  |    |
| <b>General Studies Core: 15</b>  |    |
| First-Year Composition   | 6  |
| ENG101* First-Year Composition (3)   |    |
| <i>AND</i>   |    |
| ENG102* First-Year Composition (3)   |    |
| Oral Communication   | 3  |
| COM230* Small Group Communication  |    |
| Critical Reading   | 3  |
| CRE101* Critical and Evaluative Reading I (3)  |    |
| <i>OR</i>  |    |
| CRE111* Critical Reading for Business and Industry (3)   |    |
| <i>OR</i>  |    |
| Equivalent as indicated by assessment  |    |
| Mathematics  | 3  |
| MAT122* Intermediate Algebra   |    |
| <b>General Studies Distribution: 10</b>  |    |
| Humanities and Fine Arts   | 3  |
| Any approved general studies course in the Humanities and Fine Arts area.                            |    |
| Natural Sciences   | 4  |
| Any approved general studies course in the Natural Sciences area.                                    |    |
| Social and Behavioral Sciences   | 3  |
| Any approved general studies course in the Social and Behavioral Sciences area.                      |    |
| <b>Certificate(s) or Degree(s) Awarded:</b>  |    |
| Certificate of Completion in:<br>Basic Corrections (18 credits)<br>Advanced Corrections (21 credits) |    |
| Associate in Applied Science in:<br>Corrections (64 credits)   |    |
| Students must earn a grade of "C" or better for all courses required within the program.             |    |
| Minimum GPA 2.00   |    |

\* Indicates course has a Prerequisite and/or Corequisite.

Detention Services

## Detention Services

The Detention Services program is designed to prepare students who are interested in a career in the field of detention and will also upgrade the skills of those presently working in the field. Courses will examine the services and programs provided to inmates as well as legal issues affecting both the incarcerated person and those working within this setting. Courses also focus on management techniques, security and emergency procedures, and detention facility training. Students will study current issues dealing with different types of inmates, and the variety of problems encountered with these individuals.

### Certificate of Completion in Detention Services

|  |           |
|--|-----------|
| <b>Required Courses:</b>                         | <b>17</b> |
| LET130* Detention Officer Training               | 2         |
| LET132* Introduction to Correctional Law         | 3         |
| LET134* Detention Management I                   | 2         |
| LET135* Detention Management II                  | 2         |
| LET136* Detention Security Procedures            | 2         |
| LET138* Detention Officer Emergency Procedures   | 1         |
| LET139* Detention Facility Training              | 2         |
| LET178* Physical Fitness & Self Defense Training | 3         |

### Associate in Applied Science in Detention Services

|  |           |
|--|-----------|
| <b>Required Courses:</b>                           | <b>17</b> |
| Certificate of Completion in Detention Services    | 17        |
| <b>Restricted Electives:</b>                       | <b>22</b> |
| AJS101 Introduction to Criminal Justice            | 3         |
| AJS112 Wellness for Law Enforcement Officers       | 3         |
| AJS124 Correctional Institutions                   | 3         |
| AJS200 Current Issues in Criminal Justice          | 3         |
| BPCxxx Any Business-Personal Computer course       | 1-3       |
| LET100* Introduction to Law Enforcement Technology | 1         |
| LET125* Legal Aspects of Law Enforcement           | 2         |
| LET140* R.I.S.C. Team Training                     | 1         |
| LET190* Human Communications & Relations           | 1         |
| LET230* Cultural Awareness for Law Enforcement     | 3         |
| PSY101 Introduction to Psychology                  | 3         |
| PSY125 Leadership and Group Dynamics               | 3         |
| PSY211* Crisis Management                          | 3         |

|         |  |   |
|---------|--|---|
| PSY245* | Psychology of Adult Development          | 3 |
| PSY250* | Social Psychology                        | 3 |
| PSY266* | Abnormal Psychology                      | 3 |
| PSY270* | Personal and Social Adjustment           | 3 |
| SOC110  | Drugs and Society                        | 3 |
| SOC140  | Racial and Ethnic Minorities             | 3 |
| SOC245* | Social Deviance                          | 3 |
| SPA109  | Law Enforcement Spanish I                | 4 |
| SPA209* | Intermediate Spanish for Law Enforcement | 3 |

**General Studies Requirements: 25**

**General Studies Core: 15**

First-Year Composition 6

ENG101\* First-Year Composition (3)  
AND

ENG102\* First-Year Composition (3)  
OR

ENG111\* Technical Writing (3)

**Oral Communication 3**

COM230\* Small Group Communication

**Critical Reading 3**

CRE101\* Critical and Evaluative Reading I (3)  
OR

CRE111\* Critical Reading for Business and Industry (3)

OR

Equivalent as indicated by assessment

**Mathematics 3**

MAT122\* Intermediate Algebra

**General Studies Distribution: 10**

**Humanities and Fine Arts 3**

Any approved general studies course in the Humanities and Fine Arts area.

**Natural Sciences 4**

Any approved general studies course in the Natural Sciences area.

**Social and Behavioral Sciences 3**

Any approved general studies course in the Social and Behavioral Sciences area.

### Certificate(s) or Degree(s) Awarded:

Certificate of Completion in:  
Detention Services (17 credits)

Associate in Applied Science in:  
Detention Services (64 credits)

Students must earn a grade of "C" or better for all courses required within the program.

Minimum GPA 2.00

\* Indicates course has a Prerequisite and/or Corequisite.

Fire Science

# Fire Science

The Fire Science Certificate of Completion and Associate in Applied Science Degree (AAS) are designed to provide students training as professional firefighters. The Fire Science Certificate of Completion and the AAS Degree can be used by professional firefighters for career enhancement within the Fire Services. A unique feature of the Fire Science Certificate of Completion and the AAS Degree is that the instructors will be professional firefighters and/or licensed emergency medical training personnel.



## Certificate of Completion in Fire Science

|   |           |
|---|-----------|
| <b>Required Courses:</b>                                | <b>36</b> |
| FSC102* Fire Department Operations                      | 11        |
| FSC105 Hazardous Materials/First Responder              | 3         |
| FSC108 Fundamentals of Fire Prevention                  | 3         |
| FSC113 Introduction to Fire Suppression                 | 3         |
| FSC117 Fire Apparatus                                   | 3         |
| FSC134 Fitness and Conditioning/Firefighters            | 3         |
| FSC208* Firefighter Safety and Building Construction    | 3         |
| FSC209 Fire Investigation                               | 3         |
| FSC238* Vehicular Extrication and Patient Stabilization | 2         |
| FSC290AA Arson Investigation                            | 1         |
| PED101IH Physical Activities: Fitness for Life          | 1         |

## Associate in Applied Science in Fire Science

|   |           |
|---|-----------|
| <b>Required Courses:</b>                  | <b>42</b> |
| Certificate of Completion in Fire Science | 36        |
| FSC118 Fire Hydraulics                    | 3         |
| FSC204* Firefighters Tactics and Strategy | 3         |
| <b>General Studies Requirements:</b>      | <b>25</b> |
| <b>General Studies Core:</b>              | <b>15</b> |
| First-Year Composition                    | 6         |
| ENG101* First-Year Composition (3)        |           |
| AND                                       |           |
| ENG102* First-Year Composition (3)        |           |
| OR  |           |
| ENG111* Technical Writing (3)             |           |

|   |           |
|---|-----------|
| <b>Oral Communication</b>   | <b>3</b>  |
| COM110 Interpersonal Communication (3)  |           |
| OR  |           |
| COM225* Public Speaking (3)   |           |
| OR  |           |
| COM230* Small Group Communication (3)   |           |
| <b>Critical Reading</b>   | <b>3</b>  |
| CRE101* Critical and Evaluative Reading I (3)   |           |
| OR  |           |
| CRE111* Critical Reading for Business and Industry (3)  |           |
| OR  |           |
| Equivalent as indicated by assessment   |           |
| <b>Mathematics</b>  | <b>3</b>  |
| MAT102* Mathematical Concepts/Applications (3)  |           |
| OR  |           |
| MAT122* Intermediate Algebra (3)  |           |
| OR  |           |
| Equivalent as indicated by assessment   |           |
| Satisfactory completion of a higher level MAT course  |           |
| <b>General Studies Distribution:</b>  | <b>10</b> |
| <b>Humanities and Fine Arts</b>   | <b>3</b>  |
| Any approved general studies course in the Humanities and Fine Arts area.   |           |
| <b>Natural Sciences</b>   | <b>4</b>  |
| Any approved general studies course in the Natural Sciences area, but BIO105, Environmental Biology (4) OR BIO156, Human Biology for Allied Health (4) OR CHM130*, Fundamental Chemistry (3), AND CHM130LL*, Fundamental Chemistry Lab (1) are recommended. |           |
| <b>Social and Behavioral Sciences</b>   | <b>3</b>  |
| Any approved general studies course in the Social and Behavioral Sciences area, but SOC101, Introduction to Sociology, is recommended.  |           |
| <b>Certificate(s) or Degree(s) Awarded:</b>   |           |
| Certificate of Completion in:<br>Fire Science (36 credits)  |           |
| Associate in Applied Science in:<br>Fire Science (67 credits)   |           |
| Students must earn a grade of "C" or better for all courses required within the program.  |           |
| Minimum GPA 2.00  |           |

\* Indicates course has a Prerequisite and/or Corequisite.

Law Enforcement Technology

## Law Enforcement Technology

The Certificate of Completion in Law Enforcement Technology, the Certificate of Completion in Public Safety Technology, the Certificate of Completion in Law Enforcement Field Training, and the Associate in Applied Sciences in Law Enforcement Technology degree are designed to provide participants with up-to-date industry-specific training that will enhance their professional opportunities. In addition, it will provide the metropolitan Phoenix area with a staff of law enforcement professionals who are capable of handling the challenges of their profession.

### Certificate of Completion in Law Enforcement Technology

|   |           |
|---|-----------|
| <b>Required Courses:</b>                    | <b>39</b> |
| LET100* Intro to Law Enforcement Technology | 1         |
| LET102* Criminal Investigation              | 4         |
| LET106* Patrol Procedures                   | 2         |
| LET109* Criminal Law                        | 2         |
| LET111* Tactical Driving                    | 2         |
| LET119* Community Relations                 | 1         |
| LET125* Legal Aspects of Law Enforcement    | 2         |
| LET127* Field Problems                      | 2         |
| LET143 Physical Conditioning and Wellness   | 3         |
| LET145* Arrest/Defense Tactics              | 5         |
| LET150* Firearms I                          | 3         |
| LET151* Firearms II                         | 2         |
| LET156* First Aid                           | 2         |
| LET190* Human Communications and Relations  | 1         |
| LET202* Traffic Procedures                  | 2         |
| LET203* Report Writing                      | 2         |
| LET211* Criminalistics                      | 2         |
| LET223* Search and Seizure                  | 1         |

### Certificate of Completion in Public Safety Technology

|  |           |
|--|-----------|
| <b>Required Courses:</b>               | <b>14</b> |
| LET152* Tactical Weapons               | 2         |
| LET179* Traffic Enforcement Procedures | 2         |
| LET183* Traffic Offenses               | 2         |
| LET188* Vehicle Inspection             | 3         |
| LET250* DUI Detection                  | 2         |
| LET260* Traffic Accident Investigation | 3         |

### Certificate of Completion in Law Enforcement Field Training

|                                     |           |
|-------------------------------------|-----------|
| <b>Required Courses:</b>            | <b>18</b> |
| LET279AA* Field Training: Phase I   | 4         |
| LET279AB* Field Training: Phase II  | 5         |
| LET279AC* Field Training: Phase III | 5         |
| LET279AD* Field Training: Phase IV  | 4         |

## Associate in Applied Science in Law Enforcement Technology

|  |           |
|--|-----------|
| <b>Required Courses:</b>   | <b>39</b> |
| Certificate of Completion in Law Enforcement Technology                                  | 39        |
| <b>General Studies Requirements:</b>   | <b>25</b> |
| <b>General Studies Core:</b>   | <b>15</b> |
| First-Year Composition   | 6         |
| ENG101* First-Year Composition (3)   |           |
| <b>AND</b>   |           |
| ENG102* First-Year Composition (3)   |           |
| <b>OR</b>  |           |
| ENG111* Technical Writing (3)  |           |
| Oral Communication   | 3         |
| COM100 Introduction to Human Communication (3)   |           |
| <b>OR</b>  |           |
| COM230* Small Group Communication (3)  |           |
| Critical Reading   | 3         |
| CRE101* Critical and Evaluative Reading I (3)  |           |
| <b>OR</b>  |           |
| CRE111* Critical Reading for Business and Industry (3)                                   |           |
| Mathematics  | 3         |
| MATxxx* Any approved general studies course in the Mathematics area.                     |           |
| <b>General Studies Distribution:</b>   | <b>10</b> |
| Humanities and Fine Arts   | 3         |
| Any approved general studies course in the Humanities and Fine Arts area.                |           |
| Natural Sciences   | 4         |
| Any approved general studies course in the Natural Sciences area.                        |           |
| Social and Behavioral Sciences   | 3         |
| Any approved general studies course in the Social and Behavioral Sciences area.          |           |
| <b>Certificate(s) or Degree(s) Awarded:</b>  |           |
| Certificate of Completion in:  |           |
| Law Enforcement Technology (39 credits)  |           |
| Public Safety Technology (14 credits)  |           |
| Law Enforcement Field Training (18 credits)  |           |
| Associate in Applied Science in:   |           |
| Law Enforcement Technology (64 credits)  |           |
| Students must earn a grade of "C" or better for all courses required within the program. |           |
| Minimum GPA 2.00   |           |

\* Indicates course has a Prerequisite and/or Corequisite.

Quality Customer Service

## Quality Customer Service

### Certificate of Completion in Quality Customer Service

This certificate is designed to provide students with training to meet the requirements for employment. Courses will be offered in Customer Service, Teamwork, Communication Skills (both written and oral), and Professional Development.

|                                     |           |
|-------------------------------------|-----------|
| <b>Required Courses:</b>            | <b>13</b> |
| COM110 Interpersonal Communication  | 3         |
| GBS175 Professional Development     | 3         |
| TQM101 Quality Customer Service     | 3         |
| TQM105* Writing for Quality Results | 2         |
| TQM230 Teamwork Dynamics            | 2         |

**Restricted Electives:** 3

*Choose 3 from credits from the following:*

|   |   |
|---|---|
| BPC117xx (any module)                       | 1 |
| BPC130xx (any module)                       | 1 |
| MGT172 Organizations, Paradigms, and Change | 1 |
| TQM200 Leadership for Front-Line Employees  | 2 |
| TQM205 Managing Diversity                   | 2 |

### Associate in Applied Science in Quality Customer Service

The Associate in Applied Science degree in Quality Customer Service is designed to provide students with training to meet the requirements for employment. Courses will be offered in Customer Service, Teamwork, Communication Skills (both written and oral) and Professional Development.

|   |           |
|---|-----------|
| <b>Required Courses:</b>                              | <b>16</b> |
| Certificate of Completion in Quality Customer Service | 16        |

**Restricted Electives:** 23

Students will choose one of the following Certificates of Completion for a total of 23 credits.

### Certificate of Completion in Human Services - Eligibility: Customer Service

This certificate is designed to provide students with the knowledge and skills to meet basic job requirements in federal and state assistance programs. An overview of federal, state, and county assistance agencies is provided. Courses will also cover application and verification processes, basic eligibility determination, and case management.

|  |          |
|--|----------|
| <b>Required Courses:</b>                   | <b>9</b> |
| HSA101 Medical Assistance Customer Service | 1        |
| HSA110* Eligibility Criteria I             | 2        |

|         |                         |   |
|---------|-------------------------|---|
| HSA120* | Eligibility Criteria II | 2 |
| HSA135* | Applied Eligibility     | 4 |

Students must also choose 14 industry/job specific elective credits from the core requirements of an AAS Degree program, Certificate, or a specialized program of study that has been approved by the department chair.

### Certificate of Completion in Human Services - Assistance: Customer Service

This certificate is designed to provide students with the knowledge and skills to meet basic job requirements in federal and state assistance programs. Courses will cover interviewing techniques, referrals, case management, and advanced eligibility determinations issues in medical, food stamps, and aid to families with dependent children.

|  |           |
|--|-----------|
| <b>Required Courses:</b>                       | <b>18</b> |
| HSA112 Assistance Office Procedures            | 2         |
| HSA114 Assistance Applications                 | 3         |
| HSA116 Assistance Determination                | 3         |
| HSA118 Medical Assistance Determination        | 3         |
| HSA222 Advanced Eligibility Determination I    | 3         |
| HSA224* Advanced Eligibility Determination II  | 2         |
| HSA226* Advanced Eligibility Determination III | 2         |

Students must also choose 5 industry/job specific elective credits from the core requirements of an AAS Degree program, Certificate, or a specialized program of study that has been approved by the department chair.

### Certificate of Completion in Human Services - Specialist: Customer Service

This certificate is designed to provide students with the knowledge and skills to meet job requirements in federal and state assistance programs. Courses will cover case management techniques, job evaluations, dispute resolutions, and grievance procedures.

|                          |   |   |
|--------------------------|---|---|
| <b>Required Courses:</b> | <b>11</b>                               |   |
| BPC119*                  | Basic Data Entry Activities             | 1 |
| HSA160                   | Employment Assistance Administration I  | 3 |
| HSA162*                  | Employment Assistance Administration II | 3 |
| HSA170                   | Employment & Training Administration I  | 2 |
| HSA172*                  | Employment & Training Administration II | 2 |

Students must also choose 5 industry/job specific elective credits from the core requirements of an AAS Degree program, Certificate, or a specialized program of study that has been approved by the department chair.

\* Indicates course has a Prerequisite and/or Corequisite.

Quality Customer Service

**Certificate of Completion in Utilities: Customer Service**

Service sector occupations require higher education and average pay levels are expected to grow. White collar, career-minded individuals will seek employment in the customer service area through this decade. This certificate is designed to provide students with training to meet requirements for employment in the customer service area of the utilities industry.

**Required Courses: 15-16**

|           |  |   |
|-----------|--|---|
| UCS101    | Introduction to Billing                | 3 |
| UCS110    | Meter and Trouble Orders               | 2 |
| UCS120    | Payments, Credits and Rates            | 3 |
| UCS130    | Service Orders I                       | 3 |
| UCS135*   | Service Orders II                      | 2 |
| UCS140*   | Service Order Procedures               | 2 |
| <i>OR</i> |  |   |
| UCS105    | Introduction to Public Utility         | 2 |
| UCS122*   | Public Utility Orders                  | 3 |
| UCS124*   | Public Utility Orders Lab              | 3 |
| UCS126*   | Public Utility Service Practices       | 2 |
| UCS132*   | Advanced Public Utility Processing     | 3 |
| UCS134*   | Advanced Public Utility Processing Lab | 3 |

Students must also choose 7-8 industry/job specific elective credits from the core requirements of an AAS Degree program, Certificate, or a specialized program of study that has been approved by the department chair.



**Certificate of Completion in Credit Card: Customer Service**

This certificate is designed to provide students with the training required for employment in the credit card industry. Courses will cover customer relations, account maintenance procedures, billing and audit processes and basic computer operations.

**Required Courses: 10**

|         |                                       |   |
|---------|---------------------------------------|---|
| AMX125  | Fundamentals of Cardmember Assistance | 2 |
| AMX127* | Credit Related Inquiries              | 3 |
| AMX129* | Account Maintenance                   | 2 |
| AMX220* | Billing Audit                         | 3 |

Students must also choose 13 industry/job specific elective credits from the core requirements of an AAS Degree program, Certificate, or a specialized program of study that has been approved by the department chair.

**Certificate of Completion in Travel Agency: Customer Service**

This certificate is designed to provide students with the training required for employment in the travel agency industry. Courses will cover reservations, booking and ticketing procedures, sales and communication skills, fares and computerized reservations systems.

**Required Courses: 11**

|            |                                  |   |
|------------|----------------------------------|---|
| AIR160     | Reservation/Booking Procedures   | 3 |
| AIR161*    | Airline Reservations System      | 2 |
| <i>AND</i> |                                  |   |
| AIR162     | Airline Booking Procedures I     | 3 |
| AIR163     | Airline Booking Procedures II    | 3 |
| <i>OR</i>  |                                  |   |
| TVL117*    | Travel Industry Reservations     | 3 |
| TVL119*    | Travel Industry Reservations Lab | 3 |

Students must also choose 12 industry/job specific elective credits from the core requirements of an AAS Degree program, Certificate, or a specialized program of study that has been approved by the department chair.

*\* Indicates course has a Prerequisite and/or Corequisite.*



Quality Customer Service

**Certificate of Completion in  
Telecommunications: Customer Service**

This certificate is designed to provide students with the training required for employment in the telecommunications industry. Courses will cover the use of a computerized account maintenance system and a computerized phone system, communication and sales skills, billing procedures, call rates, calling cards and account adjustments.

**Required Courses: 14**

|         |  |   |
|---------|--|---|
| CSR169* | Telecommunications Company<br>Customer Service     | 3 |
| CSR173* | Telecommunications Billing/Rates                   | 3 |
| CSR174* | Inquiries and Adjustments                          | 3 |
| CSR175* | Telecommunications Sales,<br>Products and Features | 3 |
| CSR176* | Customer Contact Associate Lab                     | 2 |

Students must also choose 9 industry/job specific elective credits from the core requirements of an AAS Degree program, Certificate, or a specialized program of study that has been approved by the department chair.

**General Studies Requirements: 25**

**General Studies Core: 15**

**First-Year Composition 6**

ENG101\* First-Year Composition (3)

AND

ENG102\* First-Year Composition (3)

OR

ENG111\* Technical Writing (3)

**Oral Communication 3**

COM230\* Small Group Communication

**Critical Reading 3**

CRE101\* Critical and Evaluative Reading I (3)

OR

CRE111\* Critical Reading for  
Business and Industry (3)

OR

Equivalent as indicated by assessment

**Mathematics 3**

MAT102\* Mathematical Concepts/Applications (3)

OR

Any higher level MAT course

**General Studies Distribution: 10**

**Humanities and Fine Arts 3**

Any approved general studies course in the Humanities and Fine Arts area.

**Natural Sciences 4**

Any approved general studies course in the Natural Sciences area.

**Social and Behavioral Sciences 3**

Any approved general studies course in the Social and Behavioral Sciences area.

**Certificate(s) or Degree(s) Awarded:**

**Certificate of Completion in:**

Quality Customer Service (16 credits)

Human Services - Eligibility:

Customer Service (9 credits)

Human Services - Assistance:

Customer Service (18 credits)

Human Services - Specialist:

Customer Service (11 credits)

Utilities: Customer Service (15-16 credits)

Credit Card - Customer Service (10 credits)

Travel Agency - Customer Service (11 credits)

Telecommunications: Customer Service (14 credits)

**Associate in Applied Science in:**

Quality Customer Service (64 credits)

Students must earn a grade of "C" or better for all courses required within the program.

Minimum GPA 2.00



\* Indicates course has a Prerequisite and/or Corequisite.

# Share the Privilege...

- by embracing the rights of democracy.
- of voting. Did you know that Rio Salado College's Admissions and Records Department has voting registration materials? They can be picked up in Tempe or mailed to your residence. Call 480-517-8150 if you would like to have registration materials mailed to you. After registering with the County Recorder's Office, you vote in-person or by mail.
- of making your vote count and voice heard.
- by encouraging a friend or a family member to vote.
- by being informed about voter initiatives. This information is automatically mailed to registered voters.
- by taking an American National Government course, POS110.
- by taking an Arizona Constitution course, POS221.
- by taking a US Constitution course, POS222.
- by getting free Citizenship Test preparation if not US citizen. Rio Salado offers instruction in US government and history to prepare students for the US Naturalization Test. Students may study in class or through the mail. For more information or to find the most convenient class for you, call 480-517-8030 or 480-517-8110.



Never doubt that a small group  
of thoughtful committed citizens  
can change the world.  
- Margaret Mead



# Maricopa County Community College District Information

## Maricopa County Community College District

### Governing Board

Donald R. Campbell, Ph.D., President

Nancy Stein, A.G.S., Secretary

Ed Contreras, C.P.A.

Gene Eastin, M.A.

Linda B. Rosenthal, M.A.

### Chancellor

Fred Gaskin, Ed.D.

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## Vision

The Maricopa Community Colleges strive to exceed the changing expectations of our many communities for effective, innovative, student-centered, flexible and lifelong educational opportunities. Our employees are committed to respecting diversity, continuous quality improvement, and the efficient use of resources. We are a learning organization guided by our shared values.

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## IN THIS SECTION

Mission

Values

Outcomes Assessment

Districtwide Occupational Programs

- Agriculture
- Business
- Health Occupations
- Home Economics
- Service Occupations
- Technology and Trade Industrial

Maricopa Skill Center Certificates

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## Mission

The Maricopa Community Colleges create and continuously improve affordable, accessible, effective and safe learning environments for the lifelong educational needs of the diverse communities we serve.

Our colleges fulfill this mission through:

- university transfer education
- general education
- developmental education
- workforce development
- student development services
- continuing education
- community education

---

## Values

We adhere to the philosophy that education thrives in a community bound by moral and ethical values and devotion to lifelong learning. We accept the responsibility to respond to the needs of the people in our communities who desire to fulfill their potential in life. Therefore, we operate on the basis of openness and trust, to nurture an environment where all can be heard.

We commit to living according to the following basic values which are vital to maintaining the integrity and vitality of our community of learners.

### Value Education

We value lifelong learning opportunities that respond to the needs of our communities and are accessible, affordable and of the highest quality.

### Value Students

We value students as the primary reason we exist. We respect their diverse life experiences, value their achievements, and appreciate their contributions to our learning community.

### Value Employees

We value all our residential faculty, adjunct faculty, administration, professional support staff, and crafts, and maintenance and operations personnel, respect their diverse life experiences, appreciate their contributions to our learning community, and encourage their individual professional development.

### Value Excellence

We invite innovation, support creative problem-solving, and encourage risk-taking. We value teamwork, cooperation and collaboration as part of our continuous improvement efforts.

### Value Diversity

We celebrate the diversity of our communities and pledge to promote and recognize the strengths as reflected in our employees and students. We believe no one is more important than another, each is important in a unique way, and we depend on each other to accomplish our mission.

### Value Honesty and Integrity

We believe academic and personal honesty and integrity are essential elements in our learning environment. Employees and students must speak and act truthfully.

### Value Freedom

To foster our learning environment, we respect individual rights and the privacy of our employees and students, and encourage dialogue and the free exchange of views.

### Value Fairness

We advocate fairness and just treatment for all students and employees.

### Value Responsibility

We believe employees are accountable for their personal and professional actions as they carry out their assignments. We are all responsible for making our learning experiences significant and meaningful. We are accountable to our communities for the efficient and effective use of resources.

### Value Public Trust

We honor the trust placed in us by the community to prepare our students for their role as productive world citizens.

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## Outcomes Assessment

The mission of the Maricopa Community Colleges is to create and continuously improve affordable, accessible, and effective learning environments for the lifelong educational needs of the diverse communities we serve. In order to evaluate how successfully MCCCDCD accomplishes this mission, student outcomes will be assessed as part of the continuous improvement process.

Students may be asked to participate in a variety of assessment activities at each college. Assessment results will be used to improve educational programs, services and student learning.

# Districtwide Occupational Programs

## AGRICULTURE

COLLEGES AREAS & PROGRAMS

- Agribusiness Sales and Service
- MC Pest Management
- MC Pest Management Aide
- Agricultural Production and Management
- GC, MC Agribusiness  
*(See Agribusiness Sales and Service and Horticulture sections for additional programs and related areas)*
- MC Ranch and Livestock Management Aide
- MC Ranch and Livestock Management Specialist
- GC, MC Urban Horticulture  
*(See Horticulture section for additional programs and related areas)*
- MC Veterinary Technician/Animal Health
- Equine Training and Management
- SC Equine Science
- Horticulture
- MC Landscape Aide
- GC Landscape Design and Installation
- GC Landscape Management
- MC Landscape Specialist
- GC Nursery Operations  
*(See Agricultural Production and Management section for additional programs and related areas)*

## BUSINESS

- Accounting
- PC Accounting
- PV Accounting - Specialized Para-Professional
- SC Bookkeeping
- GW Bookkeeping/Accounting
- GW, PC, PV Microcomputer Accounting  
*(See Business Administration for additional information and related areas)*
- GC Paraprofessional Accounting



- Business Administration
- MC Business
- SC Business (Fastrack)
- CG, GC, PC, PV General Business  
*(See Management section for additional information and related areas)*
- EM, GW, MC, PV, SM Import / Export Trade
- EM, GW, MC, PC, PV, SC, SM International Business
- Computer Science
- PC Computer Applications
- EM Computer Applications Technology
- CG, EM, GW, MC, PC, SC Computer Hardware Maintenance and Desktop Support
- GC, MC, PC, PV, SC, SM Computer Information Systems
- GC AS/400 Operations
- GC AS/400 Applications Development
- GC Helpdesk Specialist
- GC, EM Oracle Applications Developer
- GC, EM Oracle Database Administrator
- SC Web Design
- GW, PV, EM Web Developer
- PV Computer Networking Technology
- PV Computer Systems Maintenance
- RS Computer Technology
- RS Business Office Technology
- RS e-Commerce/Website Management
- RS, EM Desktop Publishing
- RS Networking
- RS Programming
- RS Basic Systems Engineer
- RS Technology Helpdesk Support
- RS Technology Troubleshooting & A+ Preparation

CONTINUED

|                        |    |                                     |    |                                   |    |                                  |
|------------------------|----|-------------------------------------|----|-----------------------------------|----|----------------------------------|
| <b>Key to Colleges</b> | CG | Chandler Gilbert Community College  | MC | Mesa Community College            | RS | Rio Salado College               |
|                        | EM | Estrella Mountain Community College | PC | Phoenix College                   | SC | Scottsdale Community College     |
|                        | GC | Glendale Community College          | PV | Paradise Valley Community College | SM | South Mountain Community College |
|                        | GW | GateWay Community College           |    |                                   |    |                                  |

MCCCD INFORMATION  
Districtwide Occupational Programs

|                                    |  |                |   |
|------------------------------------|--|----------------|---|
| RS                                 | Webmaster  | GC             | Retail Management   |
| GW                                 | Education Technology   | EM             | Small Business Management<br><i>(See Production and Inventory Management section for additional programs and related areas)</i> |
| MC                                 | Internet/Intranet Web Development Technology   | SM             | Supermarket Management  |
| GC                                 | Microcomputer Applications<br><i>(See Office Occupations section for additional information and related areas)</i> | GC             | Supervision   |
| CG                                 | Microcomputer Applications: Office Specialist/Core Level   | SM             | Supervision and Management I  |
| CG                                 | Microcomputer Applications: Office Specialist/Expert Level   | SM             | Supervision and Management II   |
| CG, GC                             | Microcomputer Business Applications  | SC             | Tribal Development  |
| CG, EM, GC, GW, PC, PV, SC, SM     | Microsoft Networking Technology  | SM             | Wholesale Food Management   |
| CG, EM, GC, GW, PC, PV, SC, SM     | Microsoft Product Specialist   |                | <b>Marketing</b>  |
| CG, EM, GC, GW, MC, PC, PV, SC, SM | Microsoft Solutions Development  | MC             | Marketing   |
| CG, EM, GC, GW, PC, PV, SC, SM     | Microsoft Systems Engineer   | PC             | Marketing I   |
| GW, SC                             | Network Administration   | PC             | Marketing II  |
| SC                                 | Network Support  | SC             | Retail Fashion  |
| CG, EM, GC, GW, SM, PC             | Networking Administration: Cisco   | MC             | Salesmanship  |
| MC                                 | Networking System Administration   |                | <b>Media Technology</b>   |
| CG, EM, GC, GW, SM, PC             | Networking Technology: Cisco   | SC             | Motion Picture/Television Production  |
| SC                                 | Personal Computer Applications   | SC             | Acting and Directing  |
| MC                                 | Programming Methodology  | SC             | Broadcasting  |
| EM, GC, GW, MC, PC, PV, RS, SC, SM | Programming and System Analysis  | SC             | Computer Animation  |
|                                    | <b>Finance</b>   | SC             | Computer Graphics   |
| PC                                 | Banking and Finance  | SC             | Dance Technology  |
| GC, MC                             | Real Estate  | SC             | Editing   |
|                                    | <b>Management</b>  | SC             | Graphic Design  |
| SM                                 | Business Management  | SC             | Media Arts Technology   |
| PC                                 | Credit Union Management  | SC             | Production  |
| PC                                 | Credit Union Management I  | SC             | Scoring   |
| PC                                 | Credit Union Management II   | SC             | Screenwriting   |
| GW                                 | General Business   | SC             | Sound Design  |
| PC, MC, SC                         | Management   | SC             | Maricopa Institute for Arts and Entertainment Technology  |
| PC                                 | Management I   | CG, MC, PC, PV | Media Arts: Computer Art/Illustration   |
| PC                                 | Management II  | PC, MC         | Media Arts: Desktop Publishing  |
| GW                                 | Materials Management   | PC, MC         | Media Arts: Digital Animation   |
| GC, PV                             | Middle Management  | CG, PC, MC     | Media Arts: Digital Imaging   |
| GC                                 | Public Relations<br><i>(See Middle Management section for additional programs and related areas)</i>               | PC, MC         | Media Arts: Music Technology  |
|                                    |  | PC, MC         | Media Arts: Web Page Design   |
|                                    |  | GC             | Video Production Technology   |
|                                    |  |                | <b>Middle Management</b>  |
|                                    |  | MC             | Public Relations<br><i>(See Management and Media Technology sections for additional information and related areas)</i>          |

**Key to Colleges**

|    |                                     |    |                                   |    |                                  |
|----|-------------------------------------|----|-----------------------------------|----|----------------------------------|
| CG | Chandler Gilbert Community College  | MC | Mesa Community College            | RS | Rio Salado College               |
| EM | Estrella Mountain Community College | PC | Phoenix College                   | SC | Scottsdale Community College     |
| GC | Glendale Community College          | PV | Paradise Valley Community College | SM | South Mountain Community College |
| GW | GateWay Community College           |    |                                   |    |                                  |

Districtwide Occupational Programs

|                |  |  |  |  |                |   |
|----------------|--|--|--|--|----------------|---|
|                | <b>Office Occupations</b>                      |  |  |  | GW             | Diagnostic Medical Ultrasound Technology  |
| PV             | Administrative Information Management Support  |  |  |  | MC             | Direct Care Practice  |
| EM, GC         | Administrative Office Coordinator              |  |  |  | PC             | EKG/Telemetry Technician  |
| MC             | Administrative Office Professional             |  |  |  | PC             | Health Information  |
| GC             | Call Center Supervision                        |  |  |  | PC             | Health Information Technology   |
| PV             | Computer Software Applications                 |  |  |  | GW             | Health Services Management  |
| GW             | Court Clerkship                                |  |  |  | GW             | Health Unit Coordinating  |
| GW             | Court Reporting                                |  |  |  | GW             | Hospital Central Service  |
| EM, GC         | Data Entry Clerk                               |  |  |  | PC             | Medical Assisting   |
| EM, GC         | General Office Secretary                       |  |  |  | PC             | Clinical Medical Assisting  |
| PC             | Legal Assisting                                |  |  |  | PC             | Medical Billing   |
| PC             | Legal Secretarial                              |  |  |  | PC             | Medical Coding: Physician Based   |
| PC             | Legal Office Support                           |  |  |  | PC             | Medical Front Office  |
| PC             | Medical Office Support                         |  |  |  | GW             | Medical Radiography   |
| PC             | Medical Office Support: Basic Clerical         |  |  |  | GW             | Medical Transcription   |
| PC             | Medical Office Support: Basic Transcription    |  |  |  | GW             | Nuclear Medicine Technology   |
| GW, PV, SC, SM | Office Automation Systems                      |  |  |  | PC             | Patient Care Technician   |
| EM, GC         | Office Coordinator                             |  |  |  | GW             | Perioperative Nursing   |
| SC             | Office Fundamentals                            |  |  |  | PC             | Phlebotomy  |
| GW             | Office Specialist: Computer Applications       |  |  |  | GW             | Physical Therapist Assisting  |
| GW, PC         | Office Support                                 |  |  |  | SC             | Radiography   |
| PC             | Office Support I                               |  |  |  | GW             | Respiratory Care  |
| PC             | Office Support II                              |  |  |  | GW             | Respiratory Care Technology   |
| EM, GC         | Receptionist                                   |  |  |  | SC             | Speech Language Pathology   |
| GW             | Scoping  |  |  |  | GW             | Surgical Technician First Assistant   |
| SC             | Word Processing                                |  |  |  | GW             | Surgical Technology   |
|                | <b>Total Quality Management</b>                |  |  |  |                | <b>Dental</b>   |
| EM, GW, MC,    | Organizational Leadership                      |  |  |  | RS             | AzDA Clinical Dental Assisting  |
| EM, GW, MC,    | Quality Customer Service                       |  |  |  | PC             | Dental Assisting  |
| GW, MC, PC,    | Quality Customer Service                       |  |  |  | PC, RS         | Dental Hygiene  |
| PV, RS         | Credit Card: Customer Service                  |  |  |  | PC             | Dental Office Management  |
| RS             | Human Services - Assistance: Customer Service  |  |  |  |                | <b>Emergency Medical Technology</b>   |
| RS             | Human Services - Eligibility: Customer Service |  |  |  | GC, PC, SC     | Advanced Emergency Medical Technology (Paramedic)                               |
| RS             | Telecommunications: Customer Service           |  |  |  | GC, MC, PC, SC | Basic Emergency Medical Technology  |
| RS             | Travel Agency: Customer Service                |  |  |  | PC             | Emergency Communications and Deployment   |
| RS             | Utilities Customer Service                     |  |  |  | GC, MC, PC     | Intermediate Emergency Medical Technology                                       |
| EM, GW, MC,    | Quality Process Leadership                     |  |  |  |                | <i>(See Allied Health section for additional information and related areas)</i> |
| PC, PV, RS     | Total Quality Management                       |  |  |  | MC             | Paramedicine  |
| EM, GC         | Total Quality Management                       |  |  |  |                | <b>Nursing</b>  |
|                | <b>HEALTH OCCUPATIONS</b>                      |  |  |  | GC, GW, MC,    | Nursing   |
|                | <b>Allied Health</b>                           |  |  |  | PC, SC         | Nurse Assisting   |
| MC             | Community Health Advocate, Diabetes            |  |  |  | GC, GW, MC,    | Practical Nursing   |
| GC, CG         | Developmental Disabilities Specialist          |  |  |  | PC, SC         |   |

MCCCD INFORMATION  
Districtwide Occupational Programs

**HOME ECONOMICS**

Early Childhood Education

- PC Adolescent Studies
- MC Child Care
- PC Child Care Administration
- MC Child Development
- PC Classroom Management for Infants, Toddlers and Preschool Children
- SC, SM Early Childhood Development
- PV Early Childhood Education
- GC Early Childhood Lead Teacher
- SC Early Childhood Small Business Development
- GC Early Childhood Teaching
- PC Family Resources
- PC Family Support
- SC Infant Toddler Development Education
- MC Bilingual Teacher Aide
- MC Teacher Assisting
- Food and Nutrition
- PC Commercial Food Preparation
- PC Culinary Studies
- CG, PV Dietetic Technology
- PC Food Service Administration
- PC Professional Food and Beverage Service
- Home Economics
- PC Fashion Design
- PC Apparel Construction
- PC Fashion Design Level I
- PC Fashion Design Level II
- PC Fashion Illustration Level I
- PC Fashion Illustration Level II
- PC Fashion Illustration Level III
- PC Pattern Design Level I
- PC Pattern Design Level II
- MC, PC, SC Interior Design
- MC, PC Advanced Interior Design
- GC, MC, PC Home Furnishing
- Merchandising
- MC Apparel Merchandising
- PC Fashion Merchandising

**SERVICE OCCUPATIONS**

Administration of Justice

- GC, MC, PC Administration of Justice
- PC Administration of Justice Comprehensive
- PC Administration of Justice Fundamentals
- SC Administration of Justice Studies
- PC Adult Corrections
- RS Advanced Corrections
- RS Basic Corrections
- RS Corrections
- PC Correctional Program Officers Training
- PC Correctional Service Office Training
- PC Corrections Supervision/Management
- PC Crime and Accident Scene Photography
- CG Crime and Intelligence Analysis
- SC Crime Scene Technology
- RS Detention Services
- PC Evidence Technology
- PC Fingerprint Classification and Identification
- MC Judicial Studies
- GC, MC, PC Justice Agencies Support
- GC, MC, PC Justice Agencies Support Level I
- GC, MC, PC Justice Agencies Support Level II
- SC Justice Studies
- GC Law Enforcement Investigator
- SC Law Enforcement Supervision
- RS Law Enforcement Technology
- RS Law Enforcement Technology Field Training
- PC Parole Officer Training
- MC Peace Officer Certification I - Limited Reserve Officer
- MC Peace Officer Certification II - Full Authority Peace Officer
- GC Police Academy
- GC Police Academy Preparation
- SC Police Academy Preparation Level I
- GC, MC, SC Police Science
- GC, MC Police Science I
- GC, MC Police Science II
- GC, MC, SC Police Science III
- GC Police Supervision
- RS Public Safety Technology
- PC Tribal Court Advocacy
- PC Tribal Court Advocacy I
- PC Tribal Court Advocacy II

**Key to Colleges**

- |   |   |  |
|---|---|--|
| CG <i>Chandler Gilbert Community College</i>  | MC <i>Mesa Community College</i>            | RS <i>Rio Salado College</i>               |
| EM <i>Estrella Mountain Community College</i> | PC <i>Phoenix College</i>                   | SC <i>Scottsdale Community College</i>     |
| GC <i>Glendale Community College</i>          | PV <i>Paradise Valley Community College</i> | SM <i>South Mountain Community College</i> |
| GW <i>GateWay Community College</i>           |   |  |



Districtwide Occupational Programs

- |                |  |        |  |
|----------------|--|--------|--|
|                | <b>Fire Science</b>  |        | <b>Health and Physical Education/Fitness</b>                   |
| MC             | Basic Firefighter  | PV     | Teaching, Healing Meditation & Stress Management               |
| MC             | Driver Operator  | PC     | Therapeutic Massage  |
| GC, SC         | Fire Academy   |        | <b>Social Sciences</b>   |
| MC             | Fire Officer I   | GC     | Aerobics Instructor  |
| GC, PC         | Fire Science   | RS     | Chemical Dependency  |
| GC, MC, SC, RS | Fire Science Technology  | RS     | Chemical Dependency Level I                                    |
| PC             | Hazardous Materials Response   | RS     | Chemical Dependency Level II                                   |
| PC             | Industrial Hazardous Materials Response  | PC     | Interpreter Preparation  |
| GC             | Recruit Firefighters   | GC     | Personal Trainer   |
|                | <b>Hospitality</b>   | PC     | Sign Language Communication Pre-Employment                     |
| RS             | Airline Operations   |        | <b>Social Services</b>   |
| SC             | Culinary Arts  | PC     | Advanced Aging Services Management and Administrative Training |
| EM             | Hospitality/Hotel Management   | PC     | Aging Services Management and Administrative Training          |
| SC             | Hospitality and Tourism/Golf Management  | PC     | Assisted Living: Directed Care Services                        |
| SC             | Hospitality and Tourism/Hotel Management   | PC     | Assisted Living: Management                                    |
| SC             | Hospitality and Tourism/Restaurant Management                                      | PC     | Assisted Living: Personal Care Services                        |
| PC             | Travel Industry Technology   | PC     | Assisted Living: Supervisory Care Services                     |
|                | <b>Library Media Technology</b>  | PC, SM | Basic Mediation  |
| MC             | Books and Print Material   | PC     | Gerontology  |
| MC             | General Proficiency in Library and Information Resource Management                 | GC     | Human Services   |
| MC             | Information and Customer Service   |        |  |
| MC             | Library and Information Resource Management  |        |  |
| MC             | Library and Information Systems  |        |  |
| MC             | Media/Multi-media for Libraries  |        |  |
| MC             | On-Line and Electronic Resources   |        |  |
|                | <b>Mortuary Science</b>  |        |  |
| MC             | Mortuary Science   |        |  |
|                | <b>Parks, Recreation, Leisure and Fitness Studies</b>                              |        |  |
| PC             | Recreational Resources and Facilities Management                                   |        |  |
| PC             | Recreational Resources and Facilities Management: Horticulture                     |        |  |
| PC             | Recreational Resources and Facilities Management: Equipment Maintenance and Repair |        |  |
| PC             | Recreational Resources and Facilities Management: Pesticides                       |        |  |
| PC             | Recreational Resources and Facilities Management: Pro Shop Management              |        |  |
| PC             | Recreational Resources and Facilities Management: Turf and Irrigation              |        |  |



MCCCD INFORMATION  
Districtwide Occupational Programs

**TECHNOLOGY AND  
TRADE INDUSTRIAL**

**Air Conditioning and Refrigeration**

- GW Commercial-Industrial Air Conditioning/Facilities
- GW Industrial Refrigeration
- GW Residential and Light Commercial Air Conditioning and Refrigeration

**Apprenticeship Related Instruction**

- GW Carpentry
- GW Construction Management
- GW Construction Trades: Carpentry
- GW Construction Trades: Millwright
- GW Construction Trades: Painting
- GW Construction Trades: Sheet Metal
- GW Electricity
- GW Ironworking
- GW Millwright
- GW Painting
- GW Pipefitter-Refrigeration
- GW Plumbing
- GW Roofing
- GW Sheet Metal
- GW Steamfitting

**Aviation and Aeronautics**

- CG Aircraft Construction Technology
- CG Aircraft Maintenance Technology
- CG Aircraft Maintenance Technology (Part 147)
- CG Airframe Maintenance (Part 147)
- CG Airway Science Technology, Flight Emphasis
- CG Aviation Electronics Maintenance Technology
- CG Avionics Technology
- CG Composite Technology
- CG Flight Technology
- CG Powerplant Maintenance (Part 147)
- CG Sheet Metal Structures Technology

**Automotive Technology**

- MC Air Conditioning
- GW Air Conditioning and Electrical Accessories
- GC Automotive Chassis
- GW Automotive Drive Trains
- MC Automotive Electrical Systems

- GC Automotive Engine Performance Diagnosis and Air Conditioning
- GC Automotive Engines and Drive Trains
- MC Automotive Performance Technology
- GW Automotive Suspension, Steering and Brakes
- GC, GW Automotive Technology
- MC Brakes, Alignment, Suspension and Steering
- GW, MC Engine Performance and Diagnosis
- MC Transmissions and Power Trains
- Building and Construction**
- SC Building Safety Technology
- PC Building Safety and Construction Technology
- SC Planning and Development Technology
- Commercial Art/Advertising Art**
- GC, PC Computer Graphic Design
- GC Electronic Pre-Press
- GC Multimedia
- GC Multimedia Imaging & Animation
- GC Multimedia Web Design
- Drafting Technology**
- MC Applied Technology-Electro/Mechanical Drafting
- MC Applied Technology Manufacturing Semiconductor Processes
- GC Architectural CAD Technology
- PC Architectural Drafting
- SC Architectural Technology
- MC Architecture
- GC CAD-Based Design Documentation
- GC Civil CAD Technology
- MC, PC Computer-Aided Drafting
- MC Construction Drafting Technology
- MC Construction Drafting I
- MC Construction Drafting II
- MC Construction Drafting III
- MC Electro/Mechanical Drafting
- MC Electromechanical Process Technology
- GC Manufacturing Design Technology
- MC Manufacturing Semiconductor Processes
- MC Mechanical Drafting
- MC Micro Circuit Mask Design
- GC Microcomputer Servicing
- MC Process Technology Level I
- MC Process Technology Level II

**Key to  
Colleges**

|    |  |    |  |    |   |
|----|--|----|--|----|---|
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| EM | <i>Estrella Mountain Community College</i> | PC | <i>Phoenix College</i>                   | SC | <i>Scottsdale Community College</i>     |
| GC | <i>Glendale Community College</i>          | PV | <i>Paradise Valley Community College</i> | SM | <i>South Mountain Community College</i> |
| GW | <i>GateWay Community College</i>           |    |  |    |   |

Districtwide Occupational Programs



**Electronics/Electrical Technology**

- SM Cable Telecommunications Installation
- SM Cable Telecommunications Service
- GC Computer and Networking Technology
- SC Electric Utility Technology
- GW Electrical Technology
- MC Electromechanical Automation Technology
- MC Electromechanical Automation Technology I
- MC Electromechanical Automation Technology II
- MC Electronic Industries Technology I
- GC, MC Electronics Engineering Technology
- GC Electronics Manufacturing Technology
- MC Electronics/Microprocessor Technology
- MC Electronics Technology
- MC Electronics Technology I
- MC Electronics Technology II
- GC Local Area Networks Servicing
- GC Cisco Networking
- SM Telecommunications Technology

**Environmental Technology**

- MC Biotechnology
- PV Environmental Health and Safety Technology
- GW Hydrologic Studies
- GW Occupational Safety and Health Technology
- PV Safety, Health and Environmental Studies
- RS Wastewater Treatment
- RS Water Distribution and Collection
- GW Water and Industrial Wastewater Treatment Technology
- GW Water Purification Technology
- RS Water Treatment
- RS Water/Wastewater Technology

**Engineering**

- PC Civil Engineering Technology
- GC Engineering Technology

**Manufacturing**

- GW Aerospace Manufacturing Technology
- MC Applied Technology - Manufacturing Automation
- MC Applied Technology - Manufacturing CNC
- MC Applied Technology - Manufacturing Machining
- MC Applied Technology - Manufacturing Management
- MC Applied Technology - Manufacturing Quality Assurance
- MC Manufacturing Automation
- MC Manufacturing CNC
- MC Manufacturing Engineering Technology
- MC Manufacturing Machining
- MC Manufacturing Management
- MC Manufacturing Quality Assurance
- GW Manufacturing Technology
- MC Manufacturing Welding  
*(See Welding Technology section for additional information and related areas)*

**Machinist**

- MC Machinist, Tool and Die
- MC Machinist, Tool and Die Level I
- MC Machinist, Tool and Die Level II

**Welding Technology**

- MC Applied Technology - Welding
- MC Welding Certification  
*(See Manufacturing section for additional information and related areas)*

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## Maricopa Skill Center Certificates

The Maricopa Skill Center (MSC), a division of GateWay Community College, offers entry-level courses and programs for hands-on job training at 1245 E. Buckeye Road, Phoenix. The more than 150 non-credit Maricopa Skill Center certificates are open-entry/open-exit, and self-paced (with the exception of nursing):

### Auto Body

Basic Refinishing and Metal Repair  
Industrial Spray Painter

### Career Sampler

A month-long exploration of up to four career choices

### Computer, Office, Business and Banking Programs

Accounting/Payroll  
Administrative Clerk/Assistant  
Bank Operations  
Bank Teller  
Call Center  
Cashier  
Computer Repair and A+ Certification  
Computer Software Courses  
Customer Service  
Data Entry  
Encoder  
Graphic Design Applications  
Internet: Basic, Intermediate, HTML, Web Design  
Microcomputer Software Applications  
Office Applications in Legal, Medical, Medical Insurance  
and Paralegal office skills  
Office Assistant  
Receptionist  
Reservations Agent  
Transcriber  
Travel Agent

### Facilities Maintenance

Facilities Maintenance Worker including Carpentry,  
Electrical, Plumbing and Introduction to HVAC skills

### Food Preparation

Cook's Apprentice  
Kitchen/Baker's helper

### Health Care

Health Core Curriculum (HCC) <sup>1</sup>

### Machine Trades

Machine Operator  
Manual/CNC Operator  
Lathe/Milling Operator  
CNC/Fanuc Control Upgrade

### Meat Cutting

Meat Cutter Apprentice  
Meat Wrapper/Deli Worker

### Medical Assistant (Level II)

Front Office/Back Office <sup>1</sup>

### Nursing (Levels II and III)

Nursing Assistant <sup>1</sup>  
Practical Nursing <sup>2</sup>

### Printing

Job Shop Printer  
Offset Press Operator  
Bindery Operator

### Welding

Combination Welder  
Arc, MIG, Flux Core and TIG Welding  
Introduction to Pipe Welding

*1. Health Care Integrated curriculum*

*2. MCCCD Nursing Programs curriculum blocks 1 and 2*



# Community Services

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## IN THIS SECTION

Adult Basic Education (ABE)

English for Speakers of  
Other Languages (ESOL)

General Educational Development (GED)/  
Adult Secondary Education (ASE)

KJZZ/KBAQ

Rio Institute for Senior Education (RISE)

Sun Cities Lifelong Learning Center

Sun Sounds of Arizona

Information Access Service

### Adult Basic Education (ABE)

ABE classes, for persons 16 years of age or older, help the individual develop or improve basic skills in reading, writing, and math.

These classes are offered throughout Maricopa County and are free of charge. Books and materials are provided for in-class use. For more information about class locations and schedules, call 480-517-8030 or 480-517-8110.

### English for Speakers of Other Languages (ESOL)

Classes are designed for individuals who do not speak English as their first language, and range from beginning to advanced. Classes are for students 16 years of age or older who need to improve listening, speaking, reading, and writing communication skills in the English language.

Classes are offered throughout Maricopa County and are free of charge. Books and materials are provided for in-class use. For more information about class locations and schedules, call 480-517-8030 or 480-517-8110.

### General Educational Development (GED)/ Adult Secondary Education (ASE)

GED and ASE classes help students 18 years of age and older prepare to take the GED (high school equivalency diploma) exam. Students prepare in the areas of reading, writing, math, social studies, and science.

These classes are offered throughout Maricopa County and are free of charge. Books and materials are provided for in-class use. For more information about class locations and schedules, call 480-517-8030 or 480-517-8110.

*The ABE, ESOL and GED/ASE programs are made possible through funding from the Arizona Department of Education/Division of Adult Education.*

#### Prepare for GED Online

Students can also prepare to take the GED (high school equivalency diploma) test online. Course offerings include work in reading, writing, math, social studies, and science.

Students must purchase a book for the class. Cost: \$50 plus textbook. For more information, call 480-517-8030.

### KJZZ/KBAQ

KJZZ (91.5FM) and KBAQ (89.5FM) are services of Rio Salado College. KJZZ features a format of news and jazz, while KBAQ concentrates on classical music. Both stations showcase the best programs from National Public Radio and other sources, and supplement them with award-winning local productions.

### Rio Institute for Senior Education (RISE)

R.I.S.E., the Rio Institute for Senior Education, is a locally-based program serving the Sun Cities area. An affiliate of the Elderhostel Institute Network, R.I.S.E. offers retirees a unique opportunity to design, administer and enjoy intellectually stimulating classes.

Members of the Institute also learn outside of class through free lecture series, travel programs, social events and informal sessions with a network of compatible friends.

The program offers college-level learning experiences but requires no tests, homework or credit classes. It's a wonderful way to expand your horizons and meet new, interesting people! For more information about R.I.S.E., call 480-517-8770.

### Sun Cities Lifelong Learning Center

The Rio Salado Sun Cities Lifelong Learning Center, located at 12535 Smokey Drive in Surprise, Arizona, offers a variety of computer classes in a state-of-the-art learning lab and provides other non-credit classes to meet community needs. The center is also home to R.I.S.E. - the Rio Institute for Senior Education. For more information, call 480-517-8770.

### Sun Sounds of Arizona Information Access Service

The Sun Sounds of Arizona Information Access Service provides audio access to printed information including newspapers, magazines, advertisements and other textual materials 24-hours-a-day, 7-days-a-week, for any individual who cannot read due to visual, physical or learning disabilities. Information access service is disseminated through radio broadcasting, audio streaming, and telephonically. For more information on volunteering, applying to borrow a Sun Sounds Radio, acquiring a Sun Dial Access Code Card or to listen to the service, visit the Sun Sounds website at: ✓ <http://sunsounds.rio.maricopa.edu> or call 602-231-0500.



# Policies & Procedures

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## IN THIS SECTION

Non-Discrimination Policy

Póliza de No Discriminación

Compliance with Policies, Rules and Regulations

Alcohol and Drug Policies

Computing Resource Standards

Disciplinary Standards

Grading

The MCCC Health Care Integrated Educational System (HCIES)

Health Concerns

Scholastic Standards

Security and Crime Statistics

Sexual Harassment Policy for Employees and Students

Student Insurance

Student Policies

Transfer Articulation Guidelines

## Non-discrimination Policy

## Nondiscrimination Policy

It is the policy of the Maricopa Community Colleges (consisting of Chandler-Gilbert Community College, the District Office, Estrella Mountain Community College, GateWay Community College, Glendale Community College, Maricopa Skill Center, Southwest Skill Center, Mesa Community College, Paradise Valley Community College, Phoenix College, Rio Salado Community College, Scottsdale Community College, and South Mountain Community College) to promote equal employment opportunities through a positive continuing program. This means that Maricopa will not discriminate, nor tolerate discrimination, against any applicant or employee because of race, color, religion, gender, sexual orientation, national origin, age, disability, or veteran status. Additionally, it is the policy of the Maricopa Community Colleges to provide an environment for each job applicant and employee that is free from sexual harassment, as well as harassment and intimidation on account of an individual's race, color, religion, gender, sexual orientation, national origin, age, disability, or veteran status.

This nondiscrimination policy covers all aspects of the employment relationship and admission to, access to, and treatment of students in the Maricopa Community Colleges' programs and activities including vocational education. This policy also prohibits discrimination on the basis of sexual orientation in the admission and treatment of students in the Maricopa Community Colleges' programs and activities and in the hiring, treatment, promotion, evaluation, and termination of employees.

### Equal Opportunity Statement

It is the policy of the Maricopa Community Colleges to promote equal employment opportunities through a positive continuing program. This means that Maricopa will not discriminate, nor tolerate discrimination, against any applicant or employee because of race, color, religion, gender, sexual orientation, national origin, age, disability, or veteran status. Additionally, it is the policy of the Maricopa Community Colleges to provide an environment for each job applicant and employee that is free from sexual harassment, as well as harassment and intimidation on account of an individual's race, color, religion, gender, sexual orientation, national origin, age, disability, or veteran status.



### Affirmative Action Statements

#### Affirmative Action Policy Statement for Individuals with Disabilities

In conformance with the provisions of Section 503 of the Rehabilitation Act of 1973, as amended, and the implementing regulations, 41 CFR 60-741.5 (a), as amended, Maricopa Community College District

will not discriminate, or tolerate

discrimination, against any applicant or employee because of physical or mental disability in regard to any position for which the known applicant or employee is qualified. Maricopa agrees to take affirmative action to employ, advance in employment and otherwise treat known qualified individuals with disabilities without regard to their physical or mental disability in all human resources selection and decision practices, such as the following: advertising, benefits, compensation, discipline (including probation, suspension, and/or termination for cause or layoff), employee facilities, performance evaluation, recruitment, social/recreational programs, and training. Maricopa will also continue to administer these practices without regard to race, color, religion, gender, sexual orientation, national origin, age, disability, or veteran status. Additionally, all applicants and employees are protected from coercion, intimidation, interference, or discrimination for filing a complaint or assisting in an investigation under the Act.

#### Affirmative Action Policy Statement for Other Eligible Veterans, Special Disabled Veterans, and Vietnam Era Veterans

In conformance with the Vietnam Era Veterans Readjustment Assistance Act of 1974, the Veterans Employment Opportunities Act of 1998, and the implementing regulations, 41 CFR 60-250(k), Maricopa County Community College District will not discriminate, or tolerate discrimination, against any applicant or employee because he or she is a special disabled veteran or Vietnam era veteran in regard to any position for which the known applicant or employee is qualified. Maricopa agrees to take affirmative action to employ, advance in employment, and otherwise treat known qualified special disabled veterans and Vietnam era veterans without discrimination based upon their disability or veteran status in all human resources section and decision practices, such as the following: advertising, benefits, compensation, discipline (including probation, suspension, and/or termination for cause or layoff), employee facilities, performance evaluation, recruitment, social/recreational programs, and training. Maricopa will continue to administer these practices without regard to race, color, religion, gender, sexual orientation, national origin, age, disability, or veteran status. Additionally, Maricopa agrees to post all suitable job openings at the local



office of the State employment service where the job opening occurs. This includes full-time, temporary greater than 3 days' duration, and part-time employment. Finally, all applicants, employees are protected from coercion, intimidation, interference, or discrimination for filing a complaint or assisting in an investigation under the Act.

Notice of Americans with Disabilities Act (ADA)/  
Section 504 of the Rehabilitation Act/  
Title IX Coordinator

Associate Dean of Student Services, ADA/504/Title IX Coordinator, 2323 West 14th Street, Tempe, Arizona, 85281, 480-517-8540. Under the ADA and Section 504, the District and its colleges recognize the obligation to provide overall program accessibility throughout its locations for persons with disabilities. The designated ADA/504/Title IX Coordinator at each college will provide information as to the existence and location of services, activities and facilities that are accessible to and usable by persons with disabilities. Requests for accommodation should be addressed to the coordinator. Likewise, under Title IX, there is an obligation to provide services and program accessibility in a gender-neutral manner.

Students with disabilities may request catalog information in an alternative format from the college ADA/504 Coordinator.

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## Póliza de No Discriminación

Es la póliza de los Colegios Comunitarios del Condado de Maricopa (The Maricopa Community Colleges) que consisten del Centro de Apoyo del Distrito, los colegios comunitarios de Chandler-Gilbert, Estrella Mountain, Gateway, Glendale, Mesa, Paradise Valley, Phoenix, Rio Salado, Scottsdale, South Mountain y el Centro de Capacitación de Maricopa, proveer igualdad en las oportunidades de empleo mediante un programa continuo positivo. Esto significa que Maricopa no discriminará o tolerará discriminación en contra de ningún aplicante o empleado debido a su raza, color, religión, sexo, orientación sexual, nacionalidad, edad, incapacidad o por ser veterano incapacitado. Así mismo, es la póliza de los Colegios Comunitarios proveer para cada aplicante y empleado un ambiente libre de acoso sexual como también de acoso e intimidación referente a raza, color, religión, sexo, orientación sexual, nacionalidad, edad o estado de veterano de cualquier individuo.

Esta póliza de no discriminación cubre todos los aspectos de contratación del empleado, ingreso, acceso a, y tratamiento de alumnos en los Colegios Comunitarios de Maricopa los cuáles incluyen también programas de educación vocacional. Esta póliza también prohíbe discriminación en base de orientación sexual en la admisión y tratamiento de estudiantes, en sus programas y actividades y en la contratación, tratamiento, promoción/ascensos, evaluación y despido de empleados.

## Declaración de Igualdad de Oportunidad

Es la póliza de los Colegios Comunitarios del Condado de Maricopa proveer igualdad en las oportunidades de empleo mediante un programa continuo positivo. Esto significa que Maricopa no discriminará o tolerará discriminación en contra de ningún aplicante o empleado debido a su raza, color, religión, sexo, orientación sexual, nacionalidad, edad, incapacidad o por ser veterano incapacitado. Agregando, es la póliza de los Colegios Comunitarios proveer para cada aplicante y empleado un ambiente libre de acoso sexual como también de acoso e intimidación referente a la raza, color, religión, sexo, orientación sexual, nacionalidad, edad y condición de veterano de cualquier individuo.

## Declaración de Acción Afirmativa

Póliza y Declaración de Acción Afirmativa para Individuos con Incapacidades

De acuerdo a lo que provee la Sección 503 de la Ley de Rehabilitación de 1973, como enmienda, y las leyes de implementación, 41 CFR 60-741.5 (a), declara que el Distrito de Colegios Comunitarios de Maricopa no discriminarán o tolerarán discriminación en contra ningún aplicante o empleado debido a su discapacidad/incapacidad física o mental referente a cualquier posición para la cuál el aplicante o empleado ha calificado. Maricopa promete tomar acción afirmativa para emplear, dar ascenso en empleo y tratar a dichos individuos con incapacidades sin hacer incapie en sus incapacidades físicas o mentales en la selección de recursos humanos y prácticas decisivas como son las siguientes: anuncios, beneficios, compensación, disciplina (incluyendo período de prueba, suspensión, y/o terminación de empleo por causa de paro forzoso), facilidades para empleados, evaluación de trabajo, reclutamiento, programas sociales/recreacionales y entrenamiento. Maricopa continuará llevando a cabo éstas prácticas de no discriminar por razones de raza, color, religión, sexo, orientación sexual, nacionalidad, edad, incapacidad o estado de veterano. Así mismo, todo los aplicantes y empleados están protegidos en contra de coacción, intimidación, interferencia o discriminación por quejas o por ayudar en una investigación cubierta bajo éste Acto.

Declaración de Póliza de Acción Afirmativa para Otros Veteranos Elegibles, Veteranos con Incapacitación Especial y Veteranos de la Era Vietnamita

Conforme a la ley de Reajuste y Asistencia para los Veteranos de la Era Vietnamita de 1974, acta de Oportunidades de Empleo para Veteranos de 1998 y reglamentos de implementación, 41 CFR 60-250(k), el Distrito de Colegios Comunitarios del Condado de Maricopa no discriminará ni tolerará discriminación en contra de ningún aplicante o empleado veterano o veterano de la Era Vietnamita con discapacidad/incapacitación especial referente a cualquier posición la cual dicho aplicante o empleado califique. Maricopa promete aplicar acción afirmativa para emplear,

CONTINUED

ascender en empleo y tratar a dichos veteranos incapacitados y de la Era Vietnamita que califiquen sin discriminar base a su discapacidad/incapacitación o condición de veterano en todas las áreas de recursos humanos y decisiones como son las siguientes: anuncios, beneficios, compensación, disciplina (incluyendo período de prueba, suspensión, y/o despido por causa o paro forzoso), facilidades para empleados, evaluación de trabajo, reclutamiento, programas sociales/recreacionales y entrenamiento. Maricopa continuará llevando a cabo estas prácticas sin discriminar por razones de raza, color, religión, sexo, orientación sexual, nacionalidad, edad, incapacidad o condición de veterano. Maricopa promete anunciar todas las oportunidades de empleo disponibles en la oficina local del servicio de empleo del Estado donde el empleo esté disponible. Esto incluye empleo de tiempo completo, temporal de más de tres días de duración y empleo de tiempo medio. Finalmente, todos los aplicantes y empleados están protegidos en contra de coacción, intimidación, interferencia o discriminación por quejas o por ayudar en una investigación cubierta sobre este Acto.

#### Notificación del Acta de Americanos con Impedimentos (ADA)/Sección 504 del Acta de Rehabilitación/Coordinador del Título IX

Associate Dean of Student Services, ADA/504/Coordinador del Título IX, 2323 West 14th Street, Tempe, Arizona, 85281, 480-517-8540. De acuerdo a ADA y a la sección 504, el distrito y sus colegios reconocen la obligación de proveer acceso a programas en todas sus localidades a personas incapacitadas. El coordinador designado de ADA/504/Título IX proveerá información tocante a la existencia y localidad de servicios, actividades y facilidades que son accesibles y de utilidad a personas incapacitadas. Solicitudes para acomodación deben ser dirigidas al coordinador. Del mismo modo, bajo el Título IX, hay obligación de proveer acceso a servicios y programas de una manera imparcial según el género.

Estudiantes incapacitados pueden solicitar información de catálogo en una forma diferente por medio del Coordinador designado por ADA/504 en cada colegio.

## Compliance with Policies, Rules, Regulations

Every student is expected to know and comply with all current published policies, rules and regulations as printed in the college catalog, class schedule, and/or student handbook. Copies are available at each college.

Policies, courses, programs, fees and requirements may be suspended, deleted, restricted, supplemented or changed through action of the Governing Board of the Maricopa Community Colleges.

The Maricopa Community Colleges reserve the right to change, without notice, any materials, information, curriculum, requirements, regulations.

### Copyright Act Compliance

Students are expected to comply with the provisions of the Copyright Act of 1976 pertaining to photocopying of printed materials, copying of computer software and videotaping. To assist students in complying with the copyright law, appropriate notices shall be placed on or near all equipment capable of duplicating copyrighted materials.

### Taping of Classroom Lectures

1. The Maricopa Community Colleges acknowledge that faculty members are, by law, afforded copyright protection in their classroom lectures and, therefore, may limit the circumstances under which students may tape (both audio and video) their classes.
2. Each faculty member shall inform his or her students within the first week of class as to his or her policy with regard to taping. Failure to do so will accord students the right to tape lectures.
3. Students with disabilities that render them unable to take adequate lecture notes are entitled to reasonable accommodation to remedy this inability. Accommodation may require a faculty member to exempt a student from his or her taping policy.

### Emissions Control Compliance

Pursuant to A.R.S. §15-1444 C. no vehicle shall be allowed to park in any college parking lot unless it complies with A.R.S. §49-542 (the vehicle emissions inspection program). At the time of course registration, every out-of-county and out-of-state students will be required to sign an affidavit stating that the student's vehicle meets the requirements of A.R.S. §49-542. Vehicles which are not in compliance are subject to being towed at the owner's expense.

# Alcohol and Drug Policies

## Student Program to Prevent Illicit Use of Drugs and Abuse of Alcohol

Rio Salado College and the Maricopa Community Colleges are committed to providing an educational environment consistent with district policies, free from unlawful acts, and free from the problems associated with the unauthorized use and abuse of alcohol and drugs. Accordingly, the Maricopa Community Colleges support the Drug Free Schools and Communities Act Amendments of 1989 (Public Law 101-226).

-A variety of alcohol and other drug abuse prevention efforts occur at the colleges during each school year to educate students about the health risks associated with use and abuse. Intervention information and services exist both on campus and off campus to help students in overcoming dependencies.

Additional information about health risks, programs available, the college drug policy and legal sanctions/disciplinary action may be obtained through the Office of the Dean of Students.

Rio Salado College has pledged to uphold the federal Drug-Free Schools and Communities Act by providing a Drug-Free program. Rio Salado provides basic information about drug effects, legal issues associated with drug abuse, and community resources addressing these concerns. At Rio Salado, it is believed that substance abuse interferes with learning and functioning. A drug-free lifestyle is encouraged for all Rio Salado's students and staff.

### I. Introduction

Rio Salado College, one of the Maricopa Community Colleges, is committed to maintaining learning environments which enhance a student's educational experience. As a result, the Maricopa County Community College District will make every effort to provide students with optimal conditions for learning that are free of the problems associated with the unauthorized use and abuse of alcohol and drugs. Part of the educational mission of the Maricopa Community Colleges, in conjunction with this program, is to educate students and staff about positive self-development, the benefits of a healthy life-style and the health risks associated with substance abuse.

### II. Purpose

1. To ensure that the working and learning environments at the Maricopa Community Colleges is safe, orderly and free of illegal activity.
2. To comply with the Drug-Free School, and Communities Act of 1989, and other relevant substance abuse laws.
3. To provide students and staff with access to appropriate treatment and rehabilitation assistance for problems associated with substance use or abuse.

### III. Standards of Conduct

In the student handbooks of the Maricopa Community Colleges, under Codes of Conduct, the following are examples of behavior which are prohibited by law and/or college rules and policies:

- Drinking or possession of alcoholic beverages on campus.
- Use of illegal drugs or narcotics not medically prescribed.

### IV. Sanctions for Violation of Standard of Conduct

Disciplinary actions include, but are not limited to: 1) Warning; 2) Loss of privileges; 3) Suspension; or 4) Expulsion.

### V. Legal Consequences of Alcohol and Other Drugs

#### A. Laws Governing Alcohol

The state of Arizona sets 21 as the "legal drinking age." An underage person who buys, receives, possesses or consumes alcoholic beverages is guilty of a misdemeanor and may be subject to a fine and imprisonment for up to six months.

The Uniform Act Regulating Traffic on Highways prohibits driving while under the influence of intoxicating liquor or drugs (DUI). Drivers charged with DUI who refuse to be tested, face suspension of their licenses or permits to drive for twelve months. A driver whose test results show a blood alcohol concentration of 0.10 or more, will have his/her license or permit to drive suspended or denied for not less than 90 consecutive days. The punishment for DUI ranges from not less than 24 consecutive hours in jail and fine of not less than \$250 for a first offense to a minimum of six months in jail and revocation of the driver's license for three years upon a third offense.

#### B. Federal Penalties and Sanctions for Illegal Possession of a Controlled Substance.

First Conviction: Up to one year imprisonment and fines of at least \$1,000 but not more than \$100,000 or both.

After One Prior Drug Conviction: At least 15 days in prison, not to exceed two years and fines of at least \$2,500 but not more than \$250,000 or both.

After Two or More Prior Drug Convictions: At least 90 days in prison, not to exceed three years and fines of at least \$5,000 but not more than \$250,000 or both.

Special Sentencing Provisions for Possession of Crack Cocaine: Mandatory sentence of at least five years in prison, not to exceed 20 years and fines of up to \$250,000 or both if:

1. First conviction and the amount of crack possessed exceeds five grams.
2. Second conviction and the amount of crack possessed exceeds three grams.
3. Third and subsequent crack conviction and the amount of crack possessed exceeds one gram.

CONTINUED

Alcohol and Drug Policies

Forfeiture of personal and real property used to possess or to facilitate possession of a controlled substance if that offense is punishable by more than one year imprisonment. (See special sentencing provisions regarding crack).

Forfeiture of vehicles, boats, aircraft or any other conveyance used to transport or conceal a controlled substance.

Civil fine of up to \$10,000 (pending adoption of final regulations).

Denial of federal benefits, such as student loans, grants, contracts, and professional and commercial licenses, up to one year for first offense, up to five years for second and subsequent offenses.

Ineligible to receive or purchase firearms.

Miscellaneous: Revocation of certain federal licenses and benefits, e.g. pilot licenses, public housing tenancy, etc., are vested within the authorities of individual federal agencies.

C. State Penalties and Sanctions

Title Thirteen, Chapter 34 of the Arizona Revised Statutes lists drug offenses and their penalties. The following is a list of drugs which are frequently misused with a description of the potential penalties attached to a conviction.

**Marijuana:** A first offense for possession or use of marijuana in an amount of less than one pound constitutes a Class 6 Felony and carries a possible prison term of one and one-half years and a fine of not less than \$750. The sale of marijuana in an amount of less than one pound carries a prison sentence of four years and a fine of at least \$750.

**LSD:** Possession, use and sale of LSD are felonies carrying prison sentences from four to five years and fines of not less than \$1,000.

**Heroin and Cocaine:** Possession, use and sale of heroin and cocaine are felonies carrying prison sentences from four to seven years and a fine of not less than \$2,000.

**Anabolic Steroids:** Possession, use and sale of these without a valid prescription or for non-therapeutic use is a Class 4 Felony.

VI. Controlled Substances

■ Drugs

|          |             |                 |
|----------|-------------|-----------------|
| Opium    | Heroin      | Metadone        |
| Morphine | Meperidine  | Hydromorphone   |
| Codeine  | (Pethidine) | Other Narcotics |

**Possible Effects ...**

Euphoria, drowsiness, respiratory, depression, constricted pupils, nausea.

**Effects of ...**

Slow and shallow breathing, clammy skin, convulsions, coma, possible death.

■ Depressants

|                 |                 |                   |
|-----------------|-----------------|-------------------|
| Chloral Hydrate | Benzodiazepines | Glutethimide      |
| Barbiturates    | Methaqualone    | Other Depressants |

**Possible Effects ...**

Slurred speech, disorientation, drunken behavior, without odor of alcohol.

**Effects of ...**

Shallow respiration, clammy skin, dilated pupils, weak and rapid pulse, coma, possible death.

■ Stimulants

|              |                 |                  |
|--------------|-----------------|------------------|
| Cocaine      | Phenmetrazine   | Other Stimulants |
| Amphetamines | Methylphenidate |                  |

**Possible Effects ...**

Increased alertness, excitation, increased pulse rate and blood pressure, insomnia, loss of appetite.

**Effects of ...**

Agitation, increase in body temperature, hallucinations, convulsions, possible death.

■ Hallucinogens

|           |             |            |
|-----------|-------------|------------|
| LSD       | Amphetamine | Angel Dust |
| Mescaline | Variants    |            |
| Peyote    | PCP         |            |

**Possible Effects ...**

Rambling speech, illusions and hallucinations, poor perception of time and distance.

**Effects of ...**

Longer more intense "trip" episodes, psychosis possible death.

■ Cannabis

|                      |             |
|----------------------|-------------|
| Marijuana            | Hashish     |
| Tetrahydrocannabinol | Hashish Oil |

**Possible Effects ...**

Euphoria, relaxed inhibitions, increased appetite disoriented behavior.

**Effects of ...**

Addiction, accidents, overdose if mixed with other drugs.

■ Alcohol

|      |      |        |
|------|------|--------|
| Beer | Wine | Liquor |
|------|------|--------|

**Possible Effects ...**

Impaired memory, coordination, reflexes, speech, judgement, blackouts, withdrawal, DT's, death.

**Effects of ...**

Addiction, accidents, overdose if mixed with other drugs.

**Alcohol and Drug Policies**

**VII. Maricopa County Resources: Substance Abuse Information, Assistance and Counseling**

**1. Alcoholism & Addiction Assistance Association (AA)**

4210 N. Longview  
Phoenix, AZ 85014  
602-277-7527

**2. Alcoholics Anonymous**

4602 N. Seventh St.  
Phoenix, AZ 85014  
602-264-1341

**3. Calvary Rehabilitation Center**

720 E. Montebello Avenue  
Phoenix, AZ 85014  
602-279-1468

**4. Casa de Amigas**

1648 W. Colter, #8  
Phoenix, AZ 85015  
602-265-9987

**5. Chicanos por la Causa**

1112 E. Buckeye Road  
Phoenix, AZ 85034-4043  
602-257-0700

**6. Ebony House**

6222 S. 13th Street  
Phoenix, AZ 85040  
602-276-4288

**7. East Valley Addiction Council (EVAC)**

560 S. Bellview, Bldg. #2  
Mesa, AZ 85204  
480-962-7711

**8. Indian Rehabilitation, Inc.**

650 N. 2nd Avenue  
Phoenix, AZ 85003  
602-254-3247

**9. Meta Center - LARC**

2770 E. Van Buren  
Phoenix, AZ 85008-6039  
602-273-9999

**10. Maverick House**

7022 N. 48th Avenue  
Glendale, AZ 85301  
623-931-5810

**11. National Council on Alcoholism and Drug Dependence (NCADD)**

2701 N. 16th Street, Suite 103  
Phoenix, AZ 85006  
602-264-6214

**12. New Arizona Family, Inc.**

3301 E. Pinchot  
Phoenix, AZ 85015  
602-381-0680

**13. Terros, Inc.**

2830 W. Glendale, Suite 26  
Phoenix, AZ 85051  
602-995-1486

**14. Terros, Inc.**

320 E. Virginia Avenue  
Phoenix, AZ 85004  
602-995-1486

**15. Northwest Organization of Voluntary Alternatives (NOVA)**

7725 N. 43rd Avenue, Suite 522  
Phoenix, AZ 85051  
623-937-9203

**16. PARC Place**

(Phoenix Adolescent Recovery Center)  
2190 N. Grace Blvd.  
Chandler, AZ 85224  
480-917-9301

**17. PELM's House (Men)**

11773 N. 91st Avenue  
Peoria, AZ 85345  
623-979-6571

**18. Salvation Army Harbour Light**

2707 E. Van Buren  
Phoenix, AZ 85008  
602-267-1404

**19. Southwest Behavioral Health Services**

315 E. Watkins  
Phoenix, AZ 85004  
602-268-8748

**20. Valle Del Sol, Inc.**

1209 S. First Avenue  
Phoenix, AZ 85003  
602-258-6797

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# Computing Resource Standards

## Introduction

The Maricopa Community Colleges provide its students and employees wide access to information resources and technologies. With the advent of new forms of technology, Maricopa Community Colleges have recognized that the free exchange of opinions and ideas essential to academic freedom is furthered by making technological resources more accessible.

At Maricopa, technological resources are shared by its users; misuse of these resources by some users infringes upon the opportunities of all the rest. As Maricopa is a public institution of higher education, however, the proper use of those resources is all the more important. That Maricopa makes its technology available for educational purposes requires users to observe Constitutional and other legal mandates whose aim is to safeguard equipment, networks, data and software that are acquired and maintained with public funds.

## General Responsibilities

Computing resources (including, but not limited to, desktop and laptop systems, printers, central computing facilities, District-wide or college-wide networks, local-area networks, access to the Internet, electronic mail and similar electronic information) of the Maricopa Community Colleges are available only to authorized users, and any use of those resources is subject to these Standards. All users of Maricopa's computing resources are presumed to have read and understood the Standards. While the Standards govern use of computing resources District-wide, an individual community college or center may establish guidelines for computing resource usage which supplement (but do not replace or waive) these Standards.

Use of Maricopa's computing resources, including websites created by employees, is limited to educational, research, service, operational, and management purposes of the Maricopa Community Colleges.

It is not Maricopa's practice to monitor the content of electronic mail transmissions, files, or other data maintained in its computing resources. The maintenance, operation and security of Maricopa's computing resources, however, require that network administrators and other authorized personnel have access to those resources and, on occasion, review the content of data and communications maintained there. A review may be performed exclusively by persons expressly authorized for such purpose and only for cause. To the extent possible in the electronic environment and in a public setting, a user's privacy will be honored. Nevertheless, that privacy is subject to Arizona's public records laws and other applicable state and federal laws, as well as policies of Maricopa's Governing Board, all of which may supersede a user's interests in maintaining privacy in information contained in Maricopa's computing resources.

Frequently, access to Maricopa's computing resources can be obtained only through use of a password known exclusively to the user. It is the user's responsibility to keep a password confidential. While Maricopa takes reasonable measures to ensure network security, it cannot be held accountable for unauthorized access to its computing resources by other users, both within and outside the Maricopa Community Colleges. Moreover, it cannot guarantee users protection against loss due to system failure, fire, etc.

Much of the data contained in Maricopa records that are accessible through use of computing resources is confidential under state and federal law. That a user may have the technical capability to access confidential records does not necessarily mean that such access is authorized. A user of Maricopa's computing resources is prohibited from the unauthorized access to, or dissemination of, confidential records.

Maricopa personnel are discouraged from offering advice to Maricopa employees regarding personal, non-job-related use, maintenance or repair of any computer equipment or software that belongs to such employees. Maricopa can assume no responsibility for any result from such advice.

Violation of any provision of the Standards could result in immediate termination of a user's access to Maricopa's computing resources, as well as appropriate disciplinary action. A violation of the Standards should be reported immediately to the appropriate administrator.

## Prohibited Conduct

The following is prohibited conduct in the use of Maricopa's computing resources:

1. Posting to the network, downloading or transporting any material that would constitute a violation of Maricopa County Community College District contracts.
2. Unauthorized attempts to monitor another user's password protected data or electronic communication, or delete another user's password protected data, electronic communications or software, without that person's permission.
3. Installing or running on any system a program that is intended to or is likely to result in eventual damage to a file or computer system.
4. Performing acts that would unfairly monopolize computing resources to the exclusion of other users, including (but not limited to) unauthorized installation of server system software.
5. Hosting a website through the use of Maricopa's computing resources without the use of "maricopa.edu" in its URL. If an institution owns additional domain names, those services should directly reroute visitors to a "maricopa.edu" domain and not host web pages directly.
6. Use of computing resources for non-Maricopa commercial purposes.
7. Use of software, graphics, photographs, or any other tangible form of expression that would violate or infringe any copyright or similar legally-recognized protection of intellectual property rights.

8. Activities that would constitute a violation of any policy of Maricopa's Governing Board, including (but not limited to) Maricopa's non-discrimination policy and its policy against sexual harassment.
9. Transmitting, storing, or receiving data, or otherwise using computing resources in a manner that would constitute a violation of state or federal law, including (but not limited to) obscenity, defamation, threats, harassment, and theft.
10. Attempting to gain unauthorized access to a remote network or remote computer system.
11. Exploiting any computing resources system by attempting to prevent or circumvent access, or using unauthorized data protection schemes.
12. Performing any act that would disrupt normal operations of computers, workstations, terminals, peripherals, or networks.
13. Using computing resources in such a way as to wrongfully hide the identity of the user or pose as another person.

### Faculty, Staff and Student Personal Website Standards

Faculty, staff and students may use Maricopa's computing resources for development of personal websites as a learning tool. Use of Maricopa's resources for this purpose is a privilege, not a right. The development and maintenance of such a website is subject to the following Faculty, Staff and Student Personal Website Standards, as well as the General Standards for Use of Maricopa's Computing Resources:

1. The author of a website may not use the site to advertise personal services, whether or not for financial gain, nor for any commercial purpose.
2. A website may not be created in such a way as to allow any person unauthorized access to Maricopa's computing resources.
3. The author of a website is solely responsible for the contents of the site. The home page of a personal website must display, or link to, the following disclaimer in a conspicuous manner:  
"This site is authored and maintained by [name of author]. It is not an official website of the Maricopa Community Colleges, and Maricopa is not responsible for the contents of this site."
4. Maricopa does not endorse the contents of any personal website. It is solely the author's responsibility to ensure that the personal website comply with all relevant Standards, as well as state and federal law, and any relevant policy of Maricopa's Governing Board.
5. Upon discovery of a violation of any relevant Standard, Maricopa may unilaterally delete a personal website from its computing resources and terminate the author's access to those resources.

## Disciplinary Standards

### Disciplinary Probation and Suspension

According to the laws of the State of Arizona, jurisdiction and control over the Maricopa Community Colleges are vested in the State Board of Directors for Community Colleges of Arizona and the District Governing Board. The Governing Board and its agents—the chancellor, administration and faculty—are granted broad legal authority to regulate student life subject to basic standards of reasonableness.

In developing responsible student conduct, the Maricopa Community Colleges prefer counseling, guidance, admonition and example. However, when these means fail to resolve problems of student conduct and responsibility, appropriate disciplinary procedures will be followed.

\* Misconduct for which students are subject to disciplinary action falls into the general areas of:

1. Cheating on an examination, laboratory work, written work (plagiarism); falsifying, forging or altering college records.
2. Actions or verbal statements which threaten the personal safety of any faculty, staff, students, or others lawfully assembled on the campus, or any conduct which is harmful, obstructive, disruptive to, or interferes with the educational process or institutional functions.
3. Violation of Arizona statutes, and/or college regulations and policies.

\* *For the complete text of the regulations covering misconduct, contact Student Services at 480-517-8540, or see "Academic Misconduct" and "Student Disciplinary Code" on the web at:*

✓ <http://www.dist.maricopa.edu/eddev/students/genpolicies/otherpolicies.htm>

### Disciplinary Removal from Class

An instructor may remove a student from class meetings for disciplinary reasons. If an instructor removes a student for more than one class period, the instructor shall notify the appropriate dean in writing of the problem, action taken by the instructor, and the instructor's recommendation. If a resolution of the problem is not reached, the student may be removed permanently pursuant to appropriate due process procedures.

## Grading

## Grading

It is the policy of the Maricopa Community Colleges that a grade will be assigned at the conclusion of the course.

### Grade Key

- A Excellent 4 grade points per credit hour
  - B Above Average 3 grade points per credit hour
  - C Average 2 grade points per credit hour
  - D Passing 1 grade point per credit hour
  - F Failure 0 grade point per credit hour
  - I Incomplete Not computed in grade point average
  - IP Course In Progress Not computed in grade point average
  - N Audit Not computed in grade point average
  - P\* Credit Not computed in grade point average
  - W Withdrawn, passing Not computed in grade point average
  - Y Withdrawn, failing (effective Fall 2000) 0 grade point per credit hour
  - Z No Credit Not computed in grade point average
- \*A "P" is judged to be equivalent to a grade of C or higher.

### Grade Point Average (GPA)

Each letter grade received at Rio Salado is assigned a point value. To calculate the GPA, total the number of attempted credits, then total the number of grade points earned. Divide the grade points earned by the number of credits attempted to determine the grade point average. An example of how you figure averages is shown below:

| Course | Hours | Grade Point Earned for Credit Grade | Total Points Earned |
|--------|-------|-------------------------------------|---------------------|
| ENG101 | 3     | B = 3                               | 9 (3x)              |
| GPH101 | 4     | C = 2                               | 8 (4x2)             |
| HES151 | 2     | A = 4                               | 8 (2x4)             |
| PED101 | 1     | D = 1                               | 1 (1x1)             |
| CHM101 | 5     | C = 2                               | 10 (5x2)            |
|        | 15    |                                     | 36                  |

36 divided by 15 = 2.4 GPA

Grades of "F" and "Y" adversely affect the GPA. Grades of "P," "Z," and "W" do not affect the GPA.

Grade Point averages may be calculated by semester or for all sessions attended.

### Incomplete Grade

Students who are doing acceptable work may request an incomplete grade "I" if they are unable to complete the course requirements by the end of the term because of illness or other extenuating circumstances. If the request is approved by the instructor, he or she shall define, in a written contract, how the course will be completed. The contract will be filed with the Office of Admissions and Records.

Students must complete the requirements within the time period agreed to - maximum time allowed is seven (7) months from the last date of class in which the grade of incomplete was assigned. Students who do not complete the requirements within seven (7) months will have their grade recorded in accordance with the written contract. Students should NOT reregister for the course to complete the contract.

### Repeating a Course/Improving a Grade

To improve a previously earned grade, students may repeat the course up to three times after the initial attempt to improve a grade. (A "W" or "Y" is not considered an attempt.) Students planning to enroll in a course for the third time should seek advisement prior to enrolling. All enrollments in a course will appear on the transcript and will be included in calculating the grade point average. The student may request in writing that the course(s) with the lower grade(s) be excluded during the grade point average calculation. The written request must be submitted to the Office of Admission and Records at the Maricopa Community College where the course with the lower grade was taken. Check individual courses and programs for exceptions.

### Credit/No Credit Courses (P/Z)

Some courses may be taken under a credit/no credit grading system. These courses carry grades of P (credit, equivalent to a grade of C or higher) or Z (no credit) and are not computed in the student's grade point average. Credits earned with a grade of P may be counted toward graduation.

The prescribed time limits are for full semester classes. Time limits for classes which meet fewer than sixteen (16) weeks are adjusted accordingly.

In courses with credit/no credit (P/Z) grading, the student may request standard grading (A,B,C,D,F), within fourteen (14) days including the date of the first class meeting. The instructor must immediately notify the Office of Admissions and Records.

In courses with standard grading (A, B, C, D, F), the instructor determines if the credit/no credit option is available. If the option is available, the student must obtain the permission of the instructor. The instructor must notify the Office of Admissions and Records within fourteen (14) days including the day of the first class meeting.

It is the student's responsibility to verify the transferability of credit/no credit courses. Some universities place a limitation on the number of credit/no credit courses that can be transferred.

**Advisory note:** *Some institutions outside the Maricopa Community Colleges may translate the Z grade as failing.*



## Grading

**Audit Courses**

Auditors are those who enroll in a course for the sole purpose of obtaining information; they receive no credit, grades, homework, or tests. If an auditor wishes to earn credit, he or she must change from audit status to credit status within the first week. If a student wishes to audit a course for which he or she is enrolled for credit, the change must be made within the first five (5) weeks of a semester. Auditors are subject to the same attendance policies as other students. See the fee schedule on pages 39-42 for charges. Financial aid is not available for audited courses. The prescribed time limits are for full semester classes. Time limits for classes which meet fewer than sixteen (16) weeks are adjusted accordingly.

**Student Grievance - Academic Process**

A student who feels that he or she has been treated unfairly or unjustly by a faculty member with regard to an academic process such as grading, testing, or assignments, has the right to appeal according to the approved procedures.

The appeal process for grades expires one year from the date the grade was issued.

Steps for students to follow:

1. Discuss the issue with the faculty member involved. This conference should be requested by the student within fifteen working days from the time the student knew or reasonably should have known about the unfair or unjust treatment.
2. If, within ten working days of the request for the conference with the faculty member, the problem is not resolved or the faculty member has been unable to meet with the student, the student may continue the process by filing a written complaint with the department/division chairperson and appropriate administrative officer at the college/center. This written complaint must be filed within ten working days following the previous deadline. The written complaint will be given to the faculty member five days before any official meetings are convened.
3. Upon receipt of a written complaint, the department/division chair or appropriate college administrative officer will work with the parties in an attempt to resolve the conflict. The faculty member may ask that the college faculty senate president be in attendance. Every attempt will be made to maintain confidentiality during this process.  
A faculty member will not be required to respond to a complaint which is not in writing and which, when appropriate, did not have specific documentation including dates, times, materials, etc. The written complaint will be made available to the faculty member.
4. If the grievance is not resolved at this level within ten working days, the student should forward to the dean of instruction or appropriate college/center administrative officer, a copy of the original written complaint with an explanation regarding action taken at each prior level. The dean of instruction or appropriate col-

lege/center administrative officer will meet with the student, faculty member, the college faculty senate president if requested by the faculty member, and department/division chairperson and attempt to resolve the issues. This level will be the final step in any grievance process regarding grades.

5. If the grievance, other than those concerning grades, is not resolved by the dean of instruction or the appropriate college/center administrative officer, it may be forwarded in writing by the student to the college president for final resolution. The college president or designee will expedite a timely examination of the issues and will issue a final written determination in the grievance process.

**Transcripts**

The transcript is issued upon written request only. Those students who want to transfer to other institutions of higher education, including other Maricopa Community Colleges, must request their transcripts be sent from the Office of Admissions and Records. However, transcripts may be shared within the Maricopa Community College District without the written request of the student in compliance with FERPA.

Official transcripts will not be issued to students having outstanding debts to any of the Maricopa Community Colleges. The release of transcripts is governed by the guidance of the Family Education Rights and Privacy Act of 1974 (see Records Policy section on page 143).

There is no charge for unofficial transcripts, or for official transcripts sent between Maricopa Community Colleges. See the fee schedule on pages 39-42 for charges for other official transcripts.

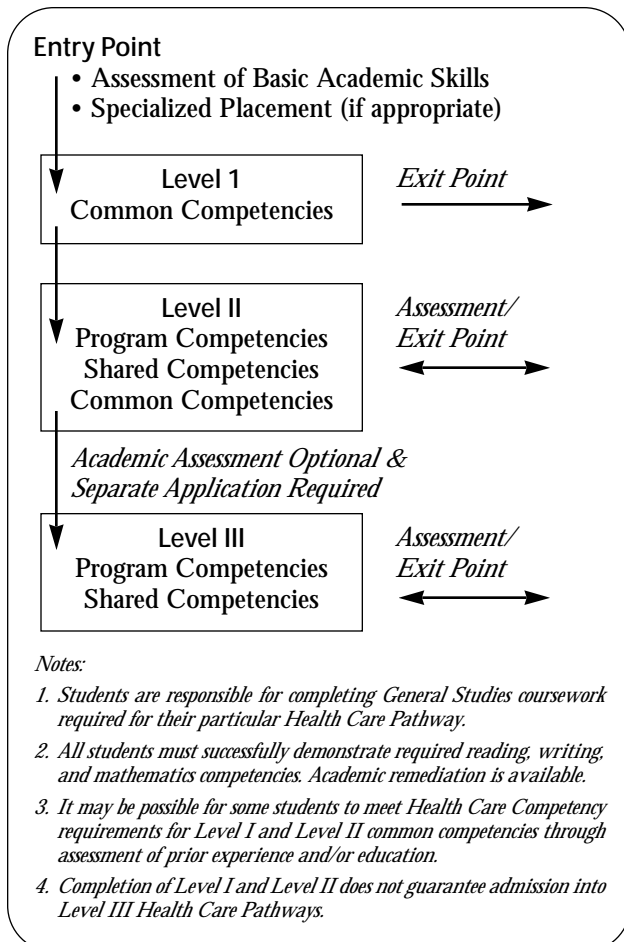
The MCCC Health Care Integrated Educational System (HCIES)

# The MCCC Health Care Integrated Educational System (HCIES)

In collaboration and partnership with the health care community and its response to the dynamic changes occurring in the health care arena and health care professions' practice, the MCCC integrated the curriculum of all allied health and nursing programs. All HCIES program pathways and educational offerings emphasize the achievement of relevant competencies and provide value to the individual, the employer, and the community. As a result, graduates of the various HCIES program pathways will meet the community's demand for a flexible, multi-skilled health care workforce that meets employer and consumer needs.

## MCCC Health Care Integrated Educational System

To respond to the dynamic changes occurring in health care arena and health professions' practice, the MCCC has integrated the curriculum of all allied health and nursing programs and identified common, shared, or program competencies for specific Health Care pathways.



**Level 1 - Common Competencies** 2.0 Credits  
**ALL** Health Care Students must satisfactorily achieve the Level I Common Competencies found in the following courses.

|   |    |
|---|----|
| HCC130AA: Health Care Today                                       | .5 |
| HCC130AB: Workplace Behavior in Health Care                       | .5 |
| HCC130AC: Personal Wellness and Safety                            | .5 |
| HCC130AD: Communication and Teamwork in Health Care Organizations | .5 |

**Level II - Common Competencies** Credits Vary  
**ALL** Health Care Students must satisfactorily achieve the Level II Common Competencies. See your advisor for which Medical Terminology course satisfies your pathway's course requirements.

|   |     |
|---|-----|
| HCC130AE: Legal and Ethical Issues in Health Care         | .5  |
| HCC130AF: Decision Making in the Health Care Setting      | .5  |
| HCC145AA: Medical Terminology for Health Care Workers I   | 1.0 |
| HCC145AB: Medical Terminology for Health Care Workers II  | 1.0 |
| HCC145AC: Medical Terminology for Health Care Workers III | 1.0 |

**LEVEL II - Shared and Program Competencies** Credits Vary  
 Required of only certain health occupations program pathways. Refer to specific program pathway curriculum or check with a program advisor. Shared Competencies are shared by several health program pathways. Program Competencies are specific to individual health occupations program pathways.

**Level III - Shared and Program Competencies\*** Credits Vary  
 Shared Competencies are shared by several Health Care Pathways. Program Competencies are specific to individual Health Care Pathways. These are required for certain Health Occupations Program Pathways. Refer to specific Pathway requirements or check with an advisor.

*\* Certain Health Care Pathways require satisfactory achievement of all Level I and II Common Competencies prior to being admitted and registering for courses in Level III. Admission into Level III Health Care Pathways is based on meeting additional requirements and involves a separate admission process. See your advisor for more information.*

The MCCC Health Care Integrated Educational System (HCIES)

**Examples of Level II Health Care Pathways \*\***

- Community Health Advocate (MCC)
- Dental Assisting (PC, RSC)
- Dental Office Management (PC)
- Direct Care Provider (MCC)
- Health Services Management (GWCC)
- Health Unit Coordinating (GWCC)
- Health Information Clerical (PC)
- Healing Meditation and Stress Management (PVCC)
- Hospital Central Service (GWCC)
- Medical Assisting (PC, SWSC/EMCC, MSC)
- Medical Billing (PC)
- Medical Coder (PC)
- Medical Transcription (GWCC)
- Nurse Assisting (GCC, MCC, PC, SCC, GWCC, MSC)
- Patient Care Technician (PC)
- Phlebotomy (PC)
- Respiratory Care Technician (GWCC)
- Surgical Technician First Assistant (GWCC)
- Surgical Technology (GWCC)

**Examples of Level III Health Care Pathways \*\***

- Dental Hygiene (PC, RSC)
- Direct Care Practice (MCC)
- Health Information Technology (PC)
- Medical Radiography (GWCC)
- Nuclear Medicine Technology (GWCC)
- Nursing (GCC, GWCC, MCC, PC, SCC)
- Physical Therapy Assisting (GWCC)
- Practical Nursing (GCC, GWCC, MSC, PC)
- Respiratory Therapist (GWCC)
- Therapeutic Massage (PC)

*\*\* subject to change*

*Chandler Gilbert (CGCC), Estrella Mountain (EMCC), GateWay (GWCC), Glendale (GCC), Mesa (MCC), Phoenix (PC), Paradise Valley (PVCC), Rio Salado (RSC), Scottsdale (SCC), South Mountain (SMCC), and the Maricopa Skill Center (MSC) and the Southwest Skill Center at EMCC (SWSC/EMCC) offer health care courses. Not all courses are offered at all sites. Please contact the specific college for more information regarding the availability of courses and course schedule information.*

**HCIES Assumption of Risk/Release of Liability**

Most of the program pathways of the HCIES include a program of study in a clinical training environment which may contain exposures to risks inherent in patient-oriented educational experiences (such as but not limited to bodily injury or communicable and infectious diseases). Students enrolling in clinical educational courses will be asked to sign a statement assuming all risks inherent in their coursework.

**HCIES College of Attendance**

As the programs within the HCIES are integrated across the Maricopa Community College District, college of attendance requirements for the completion of the healthcare program pathways can be met through the completion of coursework taken at all the MCCC colleges and Skill Centers.



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## Health Concerns

### Student Program to Prevent Illicit Use of Drugs and Abuse of Alcohol

The Maricopa Community Colleges are committed to providing an educational environment consistent with district policies, free from unlawful acts, and free from the problems associated with the unauthorized use and abuse of alcohol and drugs. Accordingly, the Maricopa Community Colleges support the Drug Free Schools and Communities Act Amendments of 1989 (Public Law 101-226).

A variety of alcohol and other drug abuse prevention efforts occur at the colleges during each school year to educate students about the health risks associated with use and abuse. Intervention information and services exist both on campus and off campus to help students in overcoming dependencies.

Additional information about health risks, programs available, the college drug policy and legal sanctions/disciplinary action may be obtained through the Office of the Dean of Students.

### General Guidelines Regarding AIDS

Neither a diagnosis of AIDS nor a positive HIV antibody test will be part of the initial admission decision for those applying to attend any of the Maricopa Community Colleges.

The Maricopa Community Colleges will not require screening of students for antibody to HIV.

Under most circumstances, students who have AIDS or a positive HIV antibody test, whether they are symptomatic or not, will be allowed regular classroom attendance provided they are physically and mentally able. Any student with a communicable disease whose personal behavior and/or medical condition poses imminent risk to the college community will be evaluated by the appropriate President or his/her designee on an individual basis to determine if limitations in contact, activities, or continuation at the college are in the best interest of the student and the college community.

Where academically and logistically feasible, students who have medical conditions, including AIDS, may seek accommodation in order to remain enrolled. Medical documentation will be needed to support requests for accommodation. It is the recommendation of the AIDS task force that students inquiring about special accommodations contact the Office of Special Services or the Office of Dean of Students.

Students with AIDS or a positive HIV antibody test will not be restricted from access to student unions, theaters, cafeterias, snack bars, gymnasiums, swimming pools, recreational facilities, restrooms, or other common areas, as there is not current medical justification for doing so.

The Maricopa Community Colleges acknowledge the importance of privacy considerations with regard to persons with AIDS. The number of people who are aware of the existence and/or identity of students who have AIDS or a positive HIV antibody test should be kept to a mini-

mum. When a student confides in an instructor, knowledge of the condition should be transmitted to the appropriate Dean who will make the determination if the information should be further disseminated. It should be remembered that mere exposure to the person in a classroom does not constitute a need to know the diagnosis. It is, therefore, unnecessary to document in a student's file the fact that he or she has AIDS unless the information is to be used for accommodation reasons. Sharing confidential information without consent may create legal liability.

Students are encouraged to contact the Office of Special Services and/or the Dean of Students for the types of services available in the district or community on matters regarding AIDS or the HIV virus.

### Substance Abuse and Misuse

Rio Salado College abides by the Drug Free Schools and Communities Act Amendments. (See Alcohol and Drug Policies on pages 131-133). We know that engaging in the excessive use of drugs and alcohol impedes student success. In an effort to help students affected by substance abuse, Rio Salado offers counseling on a limited basis and referral to community agencies. Call Student Services at 480-517-8450 for information.

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## Scholastic Standards

### Academic Renewal

Students who return to this college after a separation of five (5) years or more, including summer school, may petition for academic renewal. The request must be in writing and submitted to the Office of Admissions and Records at the college where the grades were earned. Eligible students will have all "D," "F," and "Y" grades earned prior to reenrollment omitted from the cumulative grade point average, subject to the following:

1. Prior to petitioning for academic renewal, the student must demonstrate a renewed academic interest and performance by earning at least a 2.5 grade point average in the first twelve (12) credit hours completed after reenrollment.
2. Upon approval, the prior academic record remains on the transcript with the notation of the academic renewal.
3. The academic renewal policy may be used only once and cannot be revoked once approved.
4. Students who have been granted Academic Renewal must also meet the Financial Aid Standards of Academic progress if they wish to receive financial aid.

### Honors Program

Each of the Maricopa Community Colleges has an honors program. Interested students should contact the college honors coordinator for information about the program and available scholarships, including the Chancellor's, Foundation's, and President's Scholarships.

Scholastic Standards

**Graduation Grade Point Average**

Students must meet all requirements for graduation.

Graduation requires a minimum grade point average of 2.00. Some specific programs have higher grade requirements. It is the student's responsibility to be aware of these program requirements.

For more information, see General Graduation Requirements section on page 55.

**Graduation with Honors**

All courses used to fulfill graduation requirements, including courses from other accredited institutions, will be entered in the grade point average calculation for honors designations.

Students who have the following grade point average will graduate with the following designations:

- 3.50 to 3.69 "with distinction"
- 3.70 to 3.89 "with high distinction"
- 3.90 to 4.0 "with highest distinction"

**President's Honor List**

The President's Honor List for each college consists of all students who complete twelve (12) or more credit hours in residence in courses numbered 100 or higher in a given semester with a college semester grade point average of 3.75 or higher.

**Academic Probation**

**Probation**

A student will be placed on academic probation under the following conditions:

- A. If, after completion of twelve (12) or more credit hours, the student's cumulative grade point average is less than:

Credit Hours for Which Grade Points are Computed at Resident

| <u>Maricopa Community College<br/>(A,B,C,D, F and Y)</u> | <u>Minimum Grade Point<br/>Average Required</u> |
|--|---|
| 12 - 15  | 1.60  |
| 16 - 30  | 1.75  |
| 31 - 45  | 1.90  |
| 46 +   | 2.00  |

(Students should also be aware that graduation requires a cumulative minimum grade point average of 2.00).

- B. If, in transferring from any accredited institution of higher education, the student's cumulative grade point average from other colleges and universities does not meet the requirements listed above.

Students on academic probation may take no more than twelve (12) credit hours per semester unless approved by the Admissions and Standards Committee.

**Continued Probation**

A student on academic probation who fails to raise the cumulative grade point average to the required minimum standards (see above) will be placed on continued probation and may be limited to taking six (6) credit hours.

Regulations regarding continued probation do not apply to the summer session. Credit hours earned in summer sessions will be included in the cumulative grade point average.

**Admission of Suspended Students**

Transfer students who do not meet the minimum grade point average listed under Scholastic Standards may be admitted on academic probation.

**Academic Progress Policy for Students Receiving Veterans Educational Benefits Credit Hours for Which Grade Points are Computed at Resident**

| <u>Maricopa Community College<br/>(A,B,C,D, F and Y)</u> | <u>Minimum Grade Point<br/>Average Required</u> |
|--|---|
| 12 - 15  | 1.60  |
| 16 - 30  | 1.75  |
| 31 - 45  | 1.90  |
| 46 +   | 2.00  |

Department of Veteran Affairs regulations require that all persons using any type of veteran education assistance program be making satisfactory academic progress toward achievement of their educational objective (program of study). A student who does not meet the minimum standards as shown above will be placed on probation for a maximum of two consecutive semesters. At this point, if satisfactory academic progress has not been demonstrated, veteran educational benefits will be terminated. Benefits may be resumed when the student raises the cumulative grade point average to the required minimum standards or demonstrates the ability to meet these standards.

The ability to meet these standards will be determined by one of the following:

- Take six or more credits in one semester (without veterans educational benefits) and complete all attempted credits with a minimum grade of "C".

OR

- An approval through the appeal process. A written appeal with appropriate documentation must be submitted.

**Students Receiving Federal Financial Aid**

Specific requirements for academic progress for financial aid recipients are applied differently than scholastic standards. Specific information is available at the college Office of Student Financial Aid.

## Security and Crime Statistics

### Crime Awareness and Campus Security Act

Federal legislation requires the Maricopa Community Colleges to maintain data on the types and number of crimes on college property as well as policies dealing with campus security. To obtain additional information, contact the college Department of Public Safety.

### Campus Safety Policies and Annual Crime Statistics Disclosure Summary

Rio Salado College is committed to the safety of the campus community and maintains a College Safety Program (CSP) that provides for the safety of the campus community. However, no community can be totally risk free in today's society, and it's important for everyone to participate in the commitment to safety. All students, staff and visitors are encouraged to immediately report suspected crimes, unusual or suspicious activities, and emergencies to the CSP.

The complete disclosure may be viewed or printed by accessing the College Safety web page at:

✓ <http://www.rio.maricopa.edu/ci/safety>

In addition; anyone may obtain a hard copy of the disclosure at the College Dispatch Desk, at the Admissions and Registration desk or via U.S. mail by calling 480-517-8200.

The following statistics were gathered in accordance to the guidelines established under the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (20 U.S.C 1092(f)). The crime definitions outlined in the Federal Bureau of Investigation's National Incident Based Reporting System, as modified by the Hate Crime Statistics Act, were utilized in compiling the numbers.

| Offense                               | On Campus |      |      | On Public Property |      |      |
|---------------------------------------|-----------|------|------|--------------------|------|------|
|                                       | 1998      | 1999 | 2000 | 1998               | 1999 | 2000 |
| Murder and Non-negligent Manslaughter | x         | x    | x    | x                  | x    | x    |
| Negligent Manslaughter                | x         | x    | x    | x                  | x    | x    |
| Forcible Sex Offense                  | x         | x    | x    | x                  | x    | x    |
| Non-Forcible Sex Offense              | x         | x    | x    | x                  | x    | x    |
| Robbery                               | x         | x    | x    | x                  | x    | x    |
| Aggravated Assault                    | x         | x    | x    | x                  | x    | x    |
| Burglary                              | 8         | 3    | 5    | x                  | x    | x    |
| Arson                                 | x         | x    | x    | x                  | x    | x    |
| Motor Vehicle Theft                   | x         | 2    | 2    | x                  | x    | x    |
| Arrests For:                          |           |      |      |                    |      |      |
| Liquor Law Violation                  | x         | x    | x    | x                  | x    | x    |
| Drug Abuse Violation                  | x         | x    | x    | x                  | x    | x    |
| Weapons Possession                    | x         | x    | x    | x                  | x    | x    |
| Disciplinary Referrals For:           |           |      |      |                    |      |      |
| Liquor Law Violation                  | x         | x    | x    | x                  | x    | x    |
| Drug Abuse Violation                  | x         | x    | x    | x                  | x    | x    |
| Weapons Possession                    | x         | x    | x    | x                  | x    | x    |

Note:

1. The college interprets "On Public Property" to mean the near sidewalk, in the street, and on the far sidewalk surrounding the perimeter of the campus.
2. Based on available data, no hate crime occurred at the college or on public property from 1997 through 1999.

The college does not own dormitories or other residential facilities. Nor does the college own or control a non-campus building or property that is used for educational purposes.

## Sexual Harassment Policy for Employees and Students

The policy of the Maricopa Community Colleges is to provide an educational, employment, and business environment free of unwelcome sexual advances, requests for sexual favors, and other verbal and/or physical conduct or communications constituting sexual harassment as defined and otherwise prohibited by local, state, and federal law.

Sexual harassment by and between employees, students, employees and students, and campus visitors and students or employees is prohibited by this policy.

Violations of this policy may result in disciplinary action up to and including termination of employees, sanctions up to and including suspension or expulsion of students, and appropriate sanctions against campus visitors.

This policy is subject to constitutionally protected speech rights and principles of academic freedom. Questions about this policy may be directed to the Maricopa Community Colleges Equal Employment Opportunity/Affirmative Action (EEO/AA) Office.

The complete text of this policy can be found at:

✓ <http://www.dist.maricopa.edu/legal/sexhar.html>

## Student Insurance

All students taking credit courses are covered by a college accident insurance policy, with certain benefit limitations. The premium is included in the activity fee that is paid at registration. The college policy covers students directly on their way to and from classes, while in class, or while attending official college functions. A printed brochure with details of the benefits and limitations is available at the area offices and at Rio Tempe.

For an additional fee, there is a 24-hour accident policy available. When an accident or injury occurs, the student should contact Rio Salado's Human Resources office at 480-517-8138.

## Student Policies

### Attendance Policy

Students must be registered for the class in order to attend.

Attendance requirements are determined by the course instructor. Students who do not meet the attendance requirement as determined by the course instructor may be withdrawn.

Students who fail to attend the first scheduled class meeting, or to contact the instructor regarding absence before the first scheduled class meeting may, at the option of the instructor, be withdrawn.

At the beginning of each course, each faculty member will provide students with written attendance requirements. It is the student's responsibility to consult with the instructor regarding official or unofficial absences. Absences begin to accumulate with the first scheduled class meeting.

Students bear the responsibility of notifying the Office of Admissions and Records when they discontinue studies in a course or at the college. Please refer to the Withdrawal Procedures on page 26 or call 480-517-8150 for withdrawal information.

### Official Absences

Official absences are those which occur when students are involved in an official activity of the college (e.g., field trips, tournaments, athletic events) and present an official absence excuse form. Absences for such events shall not count against the number of absences allowed by an instructor or department. Students who must miss a class for an official reason must obtain an official absence verification card from the appropriate dean or associate dean and present it to the appropriate instructor(s) before the absence. Prior arrangements must be made with each instructor for make-up work. If prior arrangements have been made, the student will not be penalized.

Other official absences include jury duty and subpoenas. Appropriate documentation will be required. Prior arrangements must be made with each instructor for makeup work. If prior arrangements have been made, the student will not be penalized.

In the event of the death of an immediate family member, absences for periods of up to one week will not be counted against the number of absences allowed by an instructor or department. Students should contact instructor(s) as soon as possible to arrange for make-up work. Appropriate documentation will be required (for example, a copy of the obituary or funeral program). In specialized programs that require clinical rotations, this regulation may not apply.

### Religious Holidays

Students shall have the right to observe major religious holidays without penalty or reprisal by any administrator, instructor or employee of the Maricopa Community Colleges. Absences for such holidays shall not count against the

number of absences allowed by an instructor or department. At least one week before the holiday, students shall submit to their instructor(s) a written statement which includes both the date of the holiday and the reason why class attendance is impossible. Prior arrangements must be made with each instructor for make-up work. If prior arrangements have been made, the student will not be penalized.

### Records Policy

#### Rights of Access to Educational Records

In compliance with the Family Educational Rights and Privacy Act of 1974, Maricopa Community Colleges inform students each semester that they may have access to their "educational records." These records include all information maintained by the college which is directly related to the student, with the exception of (a) the financial records of their parents, (b) confidential letters of recommendation prior to January 1, 1975, (c) confidential letters and recommendations associated with admissions, employment or job placement to which students have waived rights of inspection and review, (d) educational records containing information about more than one student; however, in such cases the institution **MUST PERMIT ACCESS** to that part of the record which pertains only to the inquiring student.

Students shall not have access to the following records: (a) reports made by physicians, psychiatrists, or psychologists in connection with their treatment, (b) records of instructional, supervisory, administrative and certain educational personnel which are in the sole possession of the originator.

The above educational records may be maintained in the Offices of Admissions and Records, Student Financial Services and Veterans Services.

#### Access to Records

If a student wishes to gain access to his or her educational records, he or she should contact the Office of Admissions and Records and complete a written request specifying to which records he or she desires access. Information will be provided within 45 days or less.

The right to inspect and review educational records and the release of or access to such records, other information or instructional materials is governed by federal law in the Family Educational Rights and Privacy Act, Title 20, United States Code, 1232G and 1232H, and federal regulations issued pursuant to such act.

In addition to the enforcement procedures provided in such act, the superior court of this state may grant injunctive or special action relief if any educational agency or institution or officer or employee of such agency or institution fails to comply with such act regardless of whether such agency or institution is the recipient of any federal funds subject to termination pursuant to such act or whether administrative remedies through any federal agency have been exhausted.

*CONTINUED*

## Student Policies

If a student feels that his or her educational records contain information which is erroneous or inaccurate, he or she may call for an informal meeting with the official responsible for the maintenance of the records in question and attempt to reconcile the difference. In the event the student remains dissatisfied after the informal meeting, he or she may request a formal hearing to challenge the contents of his/her educational records. The student will be afforded the elements of due process adopted by the Governing Board.

A request for a formal hearing should be made in writing to the president, whereupon the Admissions and Standards Committee of the college will meet within 30 days after the complaint is received to conduct a hearing on the charges.

Each student will bear the cost of reproducing any materials from his or her file.

#### External Review of Student Complaints

Pursuant to federal legislation, college accrediting agencies will periodically review the substance of formal student complaints. The identities of student filing complaints will remain anonymous.

#### Student Directory

The college may publish a directory of students containing for each the name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, part-time or full-time status, degrees and awards received, and the most recent previous educational agency or institution attended by the student. The college shall give public notice of the categories of information it has designated and shall allow a reasonable period of time for the student to inform the college that any or all of the information should not be released without his or her consent.

Directory information may be released at the discretion of college officials for any student who has not specifically requested the withholding of such information. Students who do not want directory information released may so indicate during the admissions process or notify the Office of Admissions and Records.

Students must determine whether all directory information pertaining to them is available for release or whether they wish ALL information to be withheld.

In accordance with federal law, college officials may disclose directory information and educational records to parents of minors or to parents of a student who have established that student's status as a dependent according to the Internal Revenue Code of 1954, section 152, without the written consent of the student(s).

Questions concerning the Family Privacy Act and/or the preceding information may be referred to the Office of the Dean of Student Services.

#### Use of Education Records for Advisement Purposes

All colleges within the Maricopa Community Colleges have access to the computerized MAPS (Monitoring Academic Progress System). During the advisement process,

each student may have his or her academic record reviewed for coursework taken at any of the District's colleges or centers.

**PLEASE NOTE: THE INSTITUTION RETAINS THE RIGHT TO EXERCISE DISCRETION IN DETERMINING THE RELEASE OF DIRECTORY INFORMATION.**

#### Student Right to Know

Under the terms of the Student Right to Know Act, the Maricopa Community Colleges must maintain and report statistics on the number of students receiving aid related to athletics reported by race and sex, the graduation rate for athletes participating in specific sports reported by race and sex, the graduation rate for students in general reported by race and sex, and other relevant statistics. To obtain copies of these reports, contact the Office of Admissions and Records.

#### Withdrawal Procedure

To withdraw from a course or courses from the college, students must follow approved procedures. The Office of Admissions and Records provides information about the withdrawal process.

The official date of withdrawal is the last date of attendance as determined by the student's withdrawal or as reported by the instructor. The official date of withdrawal determines refunds.

Never attending is not a guarantee for a refund or an excuse of the debt incurred through registration. Please see the refund policy on page 38.

The prescribed time limits are for full semester classes. Time limits for classes which meet fewer than sixteen (16) weeks are adjusted accordingly.

#### Withdrawal from Specific Courses

The prescribed time limits are for full semester classes. Time limits for classes which meet fewer than sixteen (16) weeks are adjusted accordingly. Failure to file an official withdrawal form may result in failing grades and responsibility for course tuition and fees.

Students may be officially withdrawn from specific courses in the following ways:

1. Through the 7th week, a student may initiate an official withdrawal from any course by submitting a course withdrawal form with the required signatures to the Office of Admissions and Records in accordance with the published deadlines. A grade of W will be assigned.
2. After the 7th week, a student may initiate a withdrawal. The instructor will sign the form and assign a grade of W or Y. The form is then to be returned to the Office of Admissions and Records. (See the college academic calendar for student deadline date.)
3. An instructor has the option of withdrawing a student who has accumulated unofficial absences in excess of the number of times a class meets per week. Students withdrawn for excessive absences may be reinstated



only with the approval of the instructor. A grade of W will be assigned through the 7th week. After the 7th week, a grade of W or Y will be assigned. Instructors electing to withdraw students must file the withdrawal form, including the last date of attendance, with the Office of Admissions and Records.

Failure to file an official withdrawal form may result in failing grades.

#### Complete Withdrawal from College

The prescribed time limits are for full semester classes. Time limits for classes which meet fewer than sixteen (16) weeks are adjusted accordingly. Failure to withdraw officially from the college within the published deadlines may result in failing grades and responsibility for course tuition and fees.

Students electing to withdraw from the college must contact the Office of Admissions and Records no later than two weeks before the end of the last class meeting and may be required to file a written request.

A grade of W will be assigned in all courses for students who withdraw by the end of the 7th week of classes. Withdrawals completed after this time will result in a grade of W (withdrawn, passing) or Y (withdrawn, failing).

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## Transfer Articulation Guidelines

### Transfer Articulation with Secondary Institutions, the Maricopa Skill Center, and the Southwest Skill Center

Students who have participated in programs articulated with Maricopa County Community College District (MCCCD) programs may be granted credit for prior learning as provided for in the respective articulation agreements. No fees will be assessed for credits for prior learning granted through articulation. Articulated program credit is transferable within MCCCD, but is not necessarily transferable to other colleges or universities. For proper placement in an articulated program, students should obtain a program of study from an academic advisor. Once the course requirements are completed, students must provide the valid documentation of articulated credits to the Office of Admissions and Records to place the credits on their academic record.

### Transfer Articulation from MCCCD to Baccalaureate Degree-Granting Institutions

The Maricopa County Community College District (MCCCD) articulates with private, public, and international baccalaureate degree-granting institutions that have achieved full accreditation or candidacy status with a regional accreditation commission such as the North Central Association of Colleges and Schools. MCCCD transfer articulation agreements are on behalf of the district as a whole and not with individual colleges within the district. Courses taken at any of the Maricopa Community Colleges

are equally transferable by institutions wishing to articulate. Transfer articulation to Arizona's public baccalaureate degree-granting institutions is communicated in terms of "acceptability" and "applicability" of community college courses and programs.

### Acceptability

To determine "acceptability" of MCCCD courses, refer to the Course Equivalency Guide (CEG) on the Arizona Course Applicability System (AZCAS). The AZCAS CEG is accessible on the following WWW site:

✓ <http://www.az.transfer.org/cas/>

Effective Fall 2000, the course evaluation and/or the general education designation as listed in AZCAS is valid for the term in which credits are earned and appear on the transcript. A course evaluation and/or university general education designation may be subject to change. Given that curriculum is dynamic at both MCCCD and the institutions to which MCCCD students transfer, students have the option to petition for equivalencies and/or general education designations.

*NOTE: The Second Summer 2000 term is the last term that the course evaluation and/or the general education designation as listed in the printed Course Equivalency Guide (CEG) is valid for the academic year in which the student completes the course (summer session is included with the previous academic year).*

### Applicability

To determine "applicability" of MCCCD courses and transfer associate degrees to university-specific degree requirements, refer to the MCCCD transfer associate degrees, the university transfer guides, and/or AZCAS Transfer Planning Aids.

### MCCCD Transfer Associate Degrees

MCCCD offers three transfer Associate degrees: Associate in Arts (AA), Associate in Business (ABus), and Associate in Science (AS). Each degree includes two pathways and the potential for the transfer of groups of courses, e.g., the Arizona General Education Curriculum (AGEC), Common Lower Division Courses and/or the degree/pathway itself. Transfer of these groups of courses is referred to as "block transfer." Each degree/pathway articulates with specific majors offered by Arizona's public universities. The MCCCD transfer associate degrees, including details on the benefits of block transfer, are accessible on the following WWW site:

✓ <http://www.dist.maricopa.edu/eddev/curric/program.html>

MCCCD also offers an Associate in Transfer Partnership (ATP) Degrees for specific majors at identified public and private colleges and universities.

CONTINUED

Transfer Articulation Guidelines

**MCCCD Associate in Applied Science Degrees**

While MCCCD's Associate in Applied Science (AAS) degrees are recommended for students who wish to gain a depth of technical expertise by completing an occupational program presented in the college catalog, some AAS degrees transfer as a "block" to specific degrees offered by Arizona's public universities, e.g., the Bachelor of Applied Science at Arizona State University (East and West) and Northern Arizona University.

**University Transfer Guides**

University Transfer Guides show how MCCCD courses apply to specific Arizona public university degree requirements. The transfer guides are useful both for students pursuing an MCCCD transfer associate degree which articulates with specific Arizona public university degrees, as well as for students pursuing Arizona public university degrees which do not articulate with an MCCCD transfer associate degree. Transfer guides are accessible on the following WWW sites:

Arizona State University Main/East:

✓ <http://www.asu.edu/provost/articulation/>

Arizona State University West:

✓ <http://www.west.asu.edu/tranguid/>

Northern Arizona University:

✓ <http://www.nau.edu/regis/transguide/info.htm>

The University of Arizona:

✓ <http://w3.arizona.edu/~oncourse/tguides/>

**AZCAS Transfer Planning Guides**

AZCAS Transfer Planning Guides are built from an institution's academic programs. Community college or university coursework that is self-entered into AZCAS is used to evaluate a student's progress toward a community college transfer certificate, community college transfer degree, and/or an Arizona public university degree. The transfer planning aids are accessible on the following WWW site:

✓ <http://www.az.transfer.org/cas/>



**Transfer Articulation from Arizona Public Community College Districts and Universities into MCCCD**

Any course that meets general education requirements at any Arizona public community college district or university will be accepted in transfer to meet comparable general education requirements at any of the Maricopa Community Colleges providing the course was completed with a grade of C or better.

An Arizona General Education Curriculum (AGEC A, AGECE B or AGECE S) certified on a student transcript transfers to MCCCD as a block and fulfills the corresponding AGECE.

Acceptance of courses other than general education requirements is determined by individual Maricopa Community Colleges.

## Course Prefixes

ACC Accounting - PAGE 148  
 ADA Advertising Arts - PAGE 148  
 AIR Airline Operations - PAGE 149  
 AJS Administration of Justice Studies - PAGE 148  
 AMX American Express - PAGE 151  
 ARH Art Humanities - PAGE 152  
 ART Art - PAGE 152  
 ASB Anthropology - PAGE 151  
 AST Astronomy - PAGE 152  
 BHS Behavioral Health Services Technology - PAGE 152  
 BIO Biology - PAGE 152  
 BPC Business-Personal Computers - PAGE 156  
 CDA Clinical Dental Assisting - PAGE 173  
 CFS Child/Family Studies - PAGE 155  
 CHD Chemical Dependency - PAGE 153  
 CHM Chemistry - PAGE 155  
 CIS Computer Information Systems - PAGE 159  
 COM Communication - PAGE 156  
 COV Covey - PAGE 168  
 CPD Counseling and Personal Development - PAGE 167  
 CRE Critical Reading - PAGE 200  
 CSC Computer Sciences - PAGE 167  
 CSI Credit Services Industry - PAGE 168  
 CSR Customer Service Representative - PAGE 172  
 DFT Drafting Technology - PAGE 176  
 DHE Dental Hygiene Education - PAGE 174  
 ECN Economics - PAGE 176  
 EDU Education - PAGE 176  
 ELT Electronics Technology - PAGE 180  
 EMT Emergency Medical Technology - PAGE 180  
 ENG English - PAGE 180  
 ENH English Humanities - PAGE 181  
 FON Food and Nutrition - PAGE 182  
 FRE French - PAGE 182  
 FSC Fire Science Technology - PAGE 181  
 GBS General Business - PAGE 183  
 GCU Cultural Geography - PAGE 184  
 GER German - PAGE 184  
 GLG Geology - PAGE 184  
 GPH Physical Geography - PAGE 184  
 GTC General Technology - PAGE 183  
 HCC Health Core Curriculum - PAGE 184  
 HES Health Science - PAGE 186  
 HIS History - PAGE 186  
 HIT Health Information Technology - PAGE 186  
 HSA Human Services Administration - PAGE 187  
 HUM Humanities - PAGE 188  
 IGS Integrated Studies - PAGE 189  
 IND Industry - PAGE 189  
 JPN Japanese - PAGE 189

# Course Descriptions



LAT Latin - PAGE 189  
 LBS Library Skills - PAGE 189  
 LET Law Enforcement Technology - PAGE 189  
 MAT Mathematics - PAGE 194  
 MGT Management - PAGE 194  
 MHL Music: History/Literature - PAGE 197  
 MKT Marketing - PAGE 194  
 MUP Music Performance - PAGE 197  
 OAS Office Automation Systems - PAGE 197  
 PAD Public Administration - PAGE 200  
 PED Physical Education - PAGE 198  
 PGR Professional Growth - PAGE 199  
 PHI Philosophy - PAGE 198  
 PHY Physics - PAGE 198  
 POS Political Science - PAGE 198  
 PSY Psychology - PAGE 199  
 RDG Reading Education - PAGE 200  
 REL Religious Studies - PAGE 200  
 SLG Sign Language - PAGE 201  
 SOC Sociology - PAGE 201  
 SPA Spanish - PAGE 201  
 THE Theater - PAGE 202  
 TQM Total Quality Management - PAGE 202  
 TVL Travel Agent Technology - PAGE 203  
 UCS Utilities Customer Service - PAGE 204  
 WED Wellness Education - PAGE 205  
 WWM Water/Wastewater Management - PAGE 205

## Course Descriptions

The following courses are those which are typically offered at Rio Salado College and/or are required courses in programs. A complete list of the course bank for the Maricopa County Community College District is available to view in the Admissions and Records Office, or visit our website at:

✓ <http://www.dist.maricopa.edu/eddev/curric/>

### ■ Accounting

**ACC111** 3 Credits  
Accounting Principles I  
Fundamental theory of accounting principles and procedures. Prerequisites: None.

**ACC112** 3 Credits  
Accounting Principles II  
Continuation of the fundamental theory of accounting principles and procedures, including interpretation of general purpose financial statements. Prerequisites: ACC111 with a grade of "C" or better, or permission of department/division.

**ACC115** 2 Credits  
Computerized Accounting  
Mastery of a microcomputer accounting system including the general ledger, accounts receivable, accounts payable and payroll. Prerequisites: ACC107, or higher level accounting course, or permission of instructor.

**ACC211** 3 Credits  
Financial Accounting  
Introduction to theory and practice in the preparation and interpretation of general purpose financial statements. Prerequisites: None.

**ACC212** 3 Credits  
Managerial Accounting  
Development and analysis of accounting information for managerial planning and control. Prerequisites: A grade of "C" or better in (ACC111 and ACC112), or ACC211, and (CIS105 or permission of department/division).

**ACC230** 3 Credits  
Uses of Accounting Information I  
Introduction to the uses of accounting information for internal and external purposes with emphasis on financial statement analysis. Prerequisites: Grade of "C" or better in ACC111 or ACC211, or a grade of "C" or better in (ENG101 and MAT151 and CRE101), or equivalent, or satisfactory score on district placement exam.

**ACC240** 3 Credits  
Uses of Accounting Information II  
Introduction to the uses of accounting information for internal and external purposes with emphasis on analysis for use by management. Prerequisites: ACC230.

**ACC250** 1 Credit  
Introductory Accounting Lab  
Procedural details of accounting for the accumulation of information and generation of reports for internal and external users. Prerequisites: None.

### ■ Administration of Justice Studies

**AJS101** 3 Credits  
Introduction to Criminal Justice  
An examination of the organization and jurisdiction of local, state and federal law enforcement, judicial and corrections systems; their history and philosophy; career opportunities and qualifying requirements, terminology and constitutional limitations of the system. Required in AJS curriculum. Prerequisites: None.

**AJS112** 3 Credits  
Wellness for Law Enforcement Officers  
The value of physical fitness in law enforcement and the basic elements of strength training, aerobic conditioning, flexibility, nutrition, and back injury prevention. Prerequisites: None.

**AJS124** 3 Credits  
Correctional Institutions  
An examination of correctional institutions with an emphasis on personnel and security measures, care and treatment programs and institutional planning. The criminal justice system and matters of custody and treatment. Inmate subcultures, and organized crime in correctional institutions and jails. Prerequisites: None.

**AJS200** 3 Credits  
Current Issues in Criminal Justice  
Examines current issues, techniques and trends in the Criminal Justice System. Prerequisites: None.

### ■ Advertising Arts

**ADA105** 3 Credits  
Typography and Lettering  
Instruction in hand-lettering, including lettering for posters, showcards and TV visuals. Study of typography including popular styles of type, classes of type, type-sizing, color-contrast in type, and use of type with hand-lettering. Operation of typeset machinery. Prerequisites: None.

**ADA114** 3 Credits  
Graphics Printing Processes  
Printing methods, skill development in planning and layout, composition methods, proofing and correction, color process, image carrier preparation. Prerequisites: None.

Airline Operations

■ Airline Operations

**AIR102** 3 Credits  
**Reservations/Sales Training I**  
 Basic orientation to Reservations/Sales training. Includes overview of product knowledge, computer familiarization, the Passenger Name Record, sales, and fares. Prerequisites: None.

**AIR103** 3 Credits  
**Basic Reservations Procedures**  
 Basic orientation to Reservation/Sales training. Includes product knowledge, computer system, seats assignments, baggage restrictions and hazardous materials regulations. Emphasis on Passenger Name Record. Prerequisites: None.

**AIR104** 3 Credits  
**Reservations/Sales Training II**  
 Concepts and techniques of specialty faring, special sales tools, miscellaneous functions, and the Passenger Name Record. Prerequisites: AIR102.

**AIR105** 3 Credits  
**Automated Ticketing**  
 Introduction to automated ticketing procedures. Payment procedures also included. Overview of baggage processes and checking in passengers. Prerequisites: AIR104.

**AIR106** 3 Credits  
**Reservations/Sales Training III**  
 Expands on concepts and techniques of reservations/sales. Includes expanded miscellaneous functions and introduces advanced seat assignments, phone operation, and ticketing. Prerequisites: AIR104.

**AIR110** 2 Credits  
**Advanced Reservations/Sales Training**  
 Emphasis on attending to passenger needs by answering “live” phone calls in a laboratory setting. Includes sales, mandatory parts of a call, phone etiquette, and information retrieval. Prerequisites: AIR102.

**AIR112** 3 Credits  
**Airline Ticketing Procedures**  
 Overview of ticketing procedures. Fares, payment options, baggage allowances, and sales covered. Automated and basic ticketing emphasized. Prerequisites: AIR103.

**AIR113** 3 Credits  
**Automated Ticketing and Check-In**  
 Introduction to automated ticketing and check-in options and procedures including entries, fares, opening a flight, assigning seats or changing seat assignments on the computer, processing standbys, and closing the flight. Prerequisites: AIR102.

**AIR115** 3 Credits  
**Ticketing/Passenger Services**  
 Basic orientation to ticketing and passenger services. Includes procedures for accepting passengers, baggage services, common hazardous materials encountered, and basic ticketing procedures. Prerequisites: AIR113.

**AIR116** 3 Credits  
**Airline Gate Procedures**  
 Automated check-in options and procedures. Opening a flight, assigning and changing seats, processing standbys, and closing a flight emphasized. Processing oversold flights and irregular operations also covered. Prerequisites: AIR103.

**AIR118** 2 Credits  
**Emergency Medical Procedures**  
 Overview of emergency medical procedures. Includes basic first aid, advanced first aid, choking victim procedure, and cardiopulmonary resuscitation. Prerequisites: None.

**AIR119** 2 Credits  
**Baggage Service/WorldTracer System**  
 Overview of WorldTracer baggage system. Emphasis on customer service, the role and responsibility of the baggage service agent. Prerequisites: None.

**AIR120** 3 Credits  
**Boeing 737 Initial Training**  
 Initial inflight training of the Boeing 737. Includes Boeing 737 aircraft familiarization, duties and procedures, and security training. Prerequisites: AIR118.

**AIR122** 2 Credits  
**Boeing 737 Emergency Procedures**  
 Overview of emergency procedures aboard the Boeing 737 Aircraft. Includes Boeing 737 general emergency procedures, specific emergency procedures, evacuation procedures, and protective breathing equipment. Prerequisites: AIR120.

**AIR124** 2 Credits  
**Boeing 757 Transition Training**  
 Inflight transition training of the Boeing 757. Includes Boeing 757 aircraft familiarization, duties and procedures, and emergency procedures. Prerequisites: AIR122.

**AIR125** 1 Credit  
**Airbus 320 Transition Training**  
 Inflight transition training of the Airbus 320 for new hires. Instruction includes Airbus 320 aircraft familiarization, general operations, and aircraft specific emergency equipment/procedures. Prerequisites: AIR122.

**AIR130** 3 Credits  
**Vacation Travel Product Knowledge**  
 Vacation travel product knowledge for Tour Sales Representatives. Includes overview of vacation travel product knowledge, vacation travel packages, product polices, and travel destinations. Prerequisites: None. Corequisites: AIR132, AIR134, AIR136.

**AIR132** 2 Credits  
**Tour Sales Computer Systems**  
 Overview of computer systems for Tour Sales Representatives. Includes computer familiarization, Direct Reference System (DRS), and Tour Record Locator (TRL). Prerequisites: None. Corequisites: AIR130, AIR134, AIR136.

COURSE DESCRIPTIONS

Airline Operations

|   |                  |   |
|---|------------------|---|
| <b>AIR134</b><br><b>Tour Sales Techniques</b><br>Sales techniques for Tour Sales Representatives. Emphasis on sales techniques for vacation tour packages. Prerequisites: None. Corequisites: AIR130, AIR132, AIR136.   | <b>2 Credits</b> | procedures, international baggage charges as well as international fares for children and conditions for unaccompanied children. Rules and restrictions of various international travel programs also covered. Prerequisites: Departmental Approval.  |
| <b>AIR136</b><br><b>Vacation Travel Booking Procedures</b><br>Vacation Travel Booking Procedures for Tour Sales Representatives. Includes computer system screens, and procedures for building a complete vacation tour package. Prerequisites: None. Corequisites: AIR130, AIR132, AIR134.   | <b>4 Credits</b> | <b>AIR154</b><br><b>International Reservations and Fares</b><br>International fares, global pricing and international taxation rules. Also includes procedures for creating the passenger name record, stored fare data, and prepaids for international travel. Prerequisites: Departmental Approval.                       |
| <b>AIR140</b><br><b>Ramp Safety Procedures</b><br>Basic ramp safety procedures for airline employees. Topics include ramp environment, engine safety, equipment malfunctions, vehicle operations and Foreign Object Damage (FOD) control. Procedures for arrival, turnaround and departure conditions and hazards covered. Hand signals and other non-verbal communications as well as back injury prevention and hearing conservation techniques included. Prerequisites: Departmental Approval. | <b>2 Credits</b> | <b>AIR160</b><br><b>Reservation/Booking Procedures</b><br>Overview of reservation/booking procedures. Includes use of availability displays, seating assignments, ticketing procedures and fare rules as well as fare pricing and selling. Communication skills also covered. Prerequisites: None.                          |
| <b>AIR142</b><br><b>Aircraft Dynamics</b><br>Overview of ground procedures for airline employees. Covers aircraft familiarization, engine safety, ramp servicing and baggage handling as well as prearrival, arrival, predeparture and departure procedures. Rules for handling air cargo, human remains and U.S. Mail included. Prerequisites: Departmental Approval.  | <b>3 Credits</b> | <b>AIR161</b><br><b>Airline Reservations System</b><br>Practical application of travel booking procedures using a computerized reservations system. Covers codes, Passenger Name Record, ticketing and reservations. Prerequisites or Corequisites: AIR160 or permission of instructor.                                     |
| <b>AIR144</b><br><b>Team Lead Training</b><br>Overview of team lead position for airline employees. Includes hazardous materials regulations, ramp releases, aircraft structural and performance limits as well as flight crew requirements and passenger capacities. Fuel procedures, United Nations classifications system and emergency procedures also covered. Prerequisites: Departmental Approval.   | <b>2 Credits</b> | <b>AIR162</b><br><b>Airline Booking Procedures I</b><br>Travel customer booking procedures. Includes communication skills, fare quotes and sale closure. Also covers special services and shipping procedures. Prerequisites: None.   |
| <b>AIR146</b><br><b>Loadmaster Operations</b><br>Overview of the aircraft loadmaster operations. Topics include weight and balance, trim sheets, preplanning, load planning and flight paperwork. Time systems including local, 24 hour and Zulu covered. Computer usage also included. Prerequisites: None.  | <b>3 Credits</b> | <b>AIR163</b><br><b>Airline Booking Procedures II</b><br>Advanced travel booking procedures including international travel. Also covers shipping, delivery issues and electronic tickets. Includes procedures for rush forms and short cuts. Prerequisites: None.   |
| <b>AIR150</b><br><b>Introduction to International Sales</b><br>International booking agent responsibilities. Includes geographical indicators and international carriers as well as cultural overview of Mexico and Canada. Prerequisites: Departmental Approval.   | <b>1 Credit</b>  | <b>AIR165</b><br><b>Overview of Flight Schedules/Itineraries</b><br>Basic reservation information including flight schedules, itineraries, and fares. Handling travel agent calls also covered. Prerequisites: None.  |
| <b>AIR152</b><br><b>International Operations and Programs</b><br>Overview of international operations and programs for airline booking agents. Includes ground operations, heck-in  | <b>4 Credits</b> | <b>AIR166</b><br><b>Airline Tickets and Procedures</b><br>Overview of tickets and ticketing procedures. Includes bonus travel ticket, instant travel ticket and express ticketing as well as ticketing by mail and virtual coupon record. Passenger Name Record (PNR), and stopover rule also covered. Prerequisites: None. |
|   |                  | <b>AIR167</b><br><b>Airline Reservation Systems &amp; Resources</b><br>Overview of reservation reference materials and flight information access. Covers manuals and computerized systems as well as codeshare partners and commuters. Flight change procedures emphasized. Prerequisites: None.                            |

Airline Operations • American Express • Anthropology

**AIR168** 1 Credit  
**Mileage Plans**  
 Overview of mileage plans. Stopover rule also covered.  
 Prerequisites: None.

**AIR169** 1 Credit  
**Basic International Travel**  
 Overview of basic international travel. Includes rules, regulations, documentation requirements, and taxes. Prerequisites: None.

■ **American Express**

**AMX101** .5 Credit  
**Information Management System**  
 Overview of account types, cardmember benefits and miscellaneous maintenance transactions using an information management system. Emphasis on terminal usage and various work screens. Prerequisites: None.

**AMX105** .5 Credit  
**Quality Call Techniques**  
 Overview of quality telephone call techniques. Professional telephone image, elements of quality service, and managing difficult customers. Emphasis on providing memorable contacts for the customer and handling situations with the first telephone contact. Prerequisites: None.

**AMX106** 3 Credits  
**Credit Basics**  
 Overview of credit card operations. Roles and duties of the credit analyst working in the credit card industry including factors to evaluate credit eligibility and collections. Identification of customer services and options, credit account management and federal regulations covered. Prerequisites: None.

**AMX108** 2 Credits  
**Credit Card System**  
 Overview of the computer system used in the credit card industry. Procedures for signing on and off the system. Emphasis on updating and maintaining customer files. Prerequisites: None.

**AMX125** 2 Credits  
**Fundamentals of Cardmember Assistance**  
 Fundamentals of cardmember assistance. Card products, billing process, Credit Authorization System, and verification criteria. Prerequisites: None.

**AMX127** 3 Credits  
**Credit Related Inquiries**  
 Policies and procedures for handling credit related inquiries. New account processing, accounts receivable, charges, payments, and bank inquiries. Prerequisites: AMX125 or departmental approval.

**AMX129** 2 Credits  
**Account Maintenance**  
 Overview of account maintenance procedures. Status changes, replacement cards, fee adjustments, account cancellations, and account reinstatements. Prerequisites: AMX127 or departmental approval.

**AMX132** 4 Credits  
**Corporate Card**  
 Overview of the corporate credit card and features associated with it. Emphasis on analyzing and servicing corporate card accounts. Customer interactions and referring an account included. Prerequisites: None.

**AMX141** 4 Credits  
**Establishment Services I**  
 Introduction to establishment services. Establishing a merchant account, processing change of status, merchant supplies, authorizations, payables, and support media. Prerequisites: None.

**AMX143** 4 Credits  
**Establishment Services II**  
 Emphasis on investigations, processing letters, and handling chargebacks. Practical application of these specialized procedures. Prerequisites: AMX141.

**AMX220** 3 Credits  
**Billing Audit**  
 Policies and procedures for handling billing inquiries and disputes. Fair Credit Billing Act, suppressing past due notices, refunds, fraud charges, and policy adjustments. Prerequisites: AMX129.

**AMX222** 2 Credits  
**Cardmember Benefits/Special Programs**  
 Overview of Benefits and Special Programs including insurance programs, cash programs, enrollment services, and limited time promotions. Prerequisites: AMX220.

■ **Anthropology**

**ASB102** 3 Credits  
**Introduction to Cultural and Social Anthropology**  
 Principles of cultural and social anthropology, with illustrative materials from a variety of cultures. The nature of culture; social, political, and economic systems; religion, aesthetics and language. Prerequisites: None.

**ASB202** 3 Credits  
**Ethnic Relations in the United States**  
 Basic concepts and processes, including historic overview of interethnic relations in the United States: culture, race, ethnicity, ethnocentrism, prejudice, discrimination, racism, assimilation, acculturation, and individual and group responses to interethnic contact. Cultural knowledge and intercultural communication skills and perspectives as fundamental tools for successful management of social relations in a multicultural world. Prerequisites: None.

**ASB245** 3 Credits  
**Indians of the Southwest**  
 Comparative study of the cultures, including the histories and present status of Indians of the Southwest. Prerequisites: None.



## ■ Art

**ART111** 3 Credits  
Drawing I

Fundamental principles of drawing. Emphasis on composition and facility in objective and expressive representation, using variety of drawing media. Prerequisites: None.

**ART112** 3 Credits  
Two-Dimensional Design

Study of fundamental elements and principles of two-dimensional design. Prerequisites: None.

**ART113** 3 Credits  
Color

Investigation seeking visual solutions to a variety of problems concerning color in two and three dimensions and modes of color appearances, including light and effects in design and theory of design. Prerequisites: ART112.

**ART115** 3 Credits  
Three-Dimensional Design

Fundamental principles of three-dimensional design. Prerequisites: ART112.

**ART131** 3 Credits  
Photography I

Basic black and white photographic principles and techniques. Camera functions and controls. Darkroom experience in film processing and printmaking. Camera required. Prerequisites: None.

**ART161** 3 Credits  
Ceramics I

Introduction to ceramic materials and techniques of hand construction, decorating, glazing and throwing on potters' wheel. Prerequisites: None.

**ART167** 3 Credits  
Painting I

Exploration of technical and expressive possibilities of various painting media in easel painting. Prerequisites: ART111 and ART112 or permission of instructor.

## ■ Art Humanities

**ARH100** 3 Credits  
Introduction to Art

Understanding and enjoyment of art through study of painting, sculpture, architecture and design. Prerequisites: None.

**ARH101** 3 Credits  
Prehistoric Through Gothic Art

History of art from prehistoric through medieval period. Prerequisites: None.

**ARH102** 3 Credits

Renaissance Through Contemporary Art  
History of art from Renaissance through contemporary period. Prerequisites: None.

## ■ Astronomy

**AST101** 3 Credits

Survey of Astronomy  
Survey of astronomy for the nontechnical student. The history, content, and evolution of the solar system and the universe in general. Astronomical principles and instrumentation. The planets, moons, sun, comets, stars and star formation, galaxies, and cosmology. Prerequisites: None.

**AST102** 1 Credit

Survey of Astronomy Laboratory  
Astronomical observations and exercises designed to familiarize students with the sky, telescopes, and methods used in astronomy. Prerequisites: None. May accompany AST101.

## ■ Behavioral Health Services Technology

**BHS205** 3 Credits

Models For Growth  
Familiarization with at least five models of therapeutic intervention. Defines the key concepts, therapeutic process, techniques and procedures of each model. Prerequisites: Departmental approval.

## ■ Biology

**BIO100** 4 Credits

Biology Concepts  
A one-semester introductory course covering basic principles and concepts of biology. Methods of scientific inquiry and behavior of matter and energy in biological systems are explored. Field trips may be required at students' expense. Prerequisites: None.

**BIO105** 4 Credits

Environmental Biology  
Fundamentals of ecology and their relevance to human impact on natural ecosystems. Field trips may be required at students' expense. Prerequisites: None.

**BIO109** 3 Credits

Natural History of the Southwest  
Study of the common plants and animals of the Southwest including their distribution, adaptation, behavior, and ecology. Field trips may be required at students' expense. Prerequisites: None.

**BIO110** 1 Credit

Laboratory for Natural History of the Southwest  
Introduction to basic field and laboratory techniques used in the study of natural history. Specific field problems pre-



## Biology • Chemical Dependency

sented dealing with plant and animal analysis and ecological interrelationships. Weekend field trips required at students' expense. Prerequisites or Corequisites: BIO109 or permission of instructor.

**BIO156** 4 Credits  
**Human Biology for Allied Health**

An introductory biology course for allied health majors with an emphasis on humans. Topics include fundamental concepts of cell biology, histology, microbiology, and genetics. Prerequisites: None. One year of high school chemistry or one semester of college-level chemistry recommended.

**BIO160** 4 Credits  
**Introduction to Human Anatomy and Physiology**

Principles of scientific method. Structural organization, homeostasis and control mechanisms of the body. Specific chemistry concepts. Structure and function of the major systems of the body. Prerequisites: None.

**BIO162** 2 Credits  
**Microbiology Concepts for Allied Health**

Types of microorganisms. Principles of growth and reproduction for specific types of microorganisms. Chain of disease transmission and defense mechanisms. Use of compound microscope. Safe handling and culturing of specific microbes. Methods of sterilization and use of disinfectants and chemotherapeutic agents. Prerequisites: None.

**BIO181** 4 Credits  
**General Biology (Majors) I**

Principles of structure and function of living things at molecular, cellular, and organismic levels of organization. Field trips may be required at students' expense. Prerequisites: None. One year of high school chemistry or one semester of college-level chemistry is strongly recommended.

**BIO182** 4 Credits  
**General Biology (Majors) II**

Additional principles of structure and function of living things at molecular, cellular, and organismic and higher levels of organization. Field trips may be required at students' expense. Prerequisites: BIO181 or permission of instructor.

**BIO183** 4 Credits  
**Marine Biology**

A survey of marine environments and their biotic communities with emphasis on the natural history of marine organisms. Prerequisites: None.

**BIO201** 4 Credits  
**Human Anatomy and Physiology I**

Study of structure and function of the human body. Topics include cells, tissues, integumentary system, skeletal system, muscular system, and nervous system. Prerequisites: BIO156, or BIO181, or equivalent, or permission of instructor.

**BIO202** 4 Credits  
**Human Anatomy and Physiology II**

Continuation of structure and function of the human body. Topics include endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems; and fluid and electrolyte balance. Prerequisites: BIO201 or permission of instructor.

**BIO205** 4 Credits  
**Microbiology**

Study of microorganisms and their relationship to health, ecology, and related fields. Prerequisites: BIO156, or BIO181, or equivalent, or permission of instructor.

## Business-Personal Computers

*For a list of course descriptions see Computers on page 156.*

## Chemical Dependency

**CHD100** 3 Credits  
**Foundations of Chemical Dependency**

Introduction to the foundations of the alcohol and drug abuse rehabilitation field. Emphasis on the roles and responsibilities of the addiction paraprofessional counselor, ethical issues, pharmacology, family dynamics, dual diagnosis, intervention techniques, self-help groups, levels of care, symptom identification, and conducting alcohol/drug histories. Interactive work stressed. Prerequisites: None.

**CHD102** 3 Credits  
**Communication Skills in Chemical Dependency**

Further examination and refinement of communication and beginning paraprofessional counseling skills as they relate to the chemically dependent client and family members. Emphasis on practicing the application of these skills to various situations associated with treatment planning. Recordkeeping/documentation skills emphasized. Prerequisites: None.

**CHD110** 3 Credits  
**Biological Systems Pharmacology of the Chemically Dependent**

Exploration of the physiological effects of chemical use on human biological systems and human development. Emphasizes human anatomy and physiology, and the identification and management of chemically induced crises situations. Prerequisites: None.

**CHD120** 1 Credit  
**Professional Ethics in Counseling the Chemically Dependent**

Exploration of topics relative to the professional and ethical development of the chemical dependency counselor, including manpower utilization, professionalism, and the meeting of individual counselor needs within the field. Prerequisites: None.

COURSE DESCRIPTIONS

Chemical Dependency

|   |           |  |
|---|-----------|--|
| CHD145<br>AIDS and Chemical Dependency<br>Exploration of AIDS and its relationship to Chemical Dependency. Emphasis on myths and realities of AIDS, personal values, feelings, and limitations and treatment goals. Prerequisites: None.  | 1 Credit  | relapse. Prerequisites: CHD165 with a grade of "C" or better or departmental approval.   |
| CHD150<br>Principles of Self-Help Groups<br>Overview of the fundamental principles, concepts and historical antecedents of the various self-help groups. Emphasis on the self-help groups of Alcoholics Anonymous, Al-anon, Alateen, Narcotics Anonymous, Co-dependents Anonymous, and Adult Children of Alcoholics. Prerequisites: None.         | 2 Credits | CHD240<br>Human Sexuality and Chemical Dependency<br>An introduction to the role that chemical dependency plays in human sexuality. Relationship dysfunctions stemming from or occurring with chemical dependency. Sexual performance dysfunctions resulting from physiological/psychological effects of chronic chemical abuse. Prerequisites: CHD100 with a grade of "C" or better, or departmental approval.                                |
| CHD161<br>Beginning Interviewing & Documentation Skills<br>Overview of interviewing/paraprofessional counseling and documentation skills. Recordkeeping/documentation skills. Alcohol and drug abuse paraprofessional counselor core functions emphasized. Prerequisites: CHD100, CHD102, CHD110, CHD120, BHS205, and CHD150.                     | 3 Credits | CHD245<br>Dual Diagnosis<br>Examines dual diagnosis (mental illness and chemical dependency) from the bio-psycho-social model. Includes causes, consequences, assessment, and treatment of the dually diagnosed person. Emphasizes the psychoeducational model of treatment. Prerequisites: CHD165 or departmental approval.   |
| CHD165<br>Theory and Techniques in the Treatment of the Chemically Dependent<br>Overview of counseling theories including the application to chemical dependency groups. Recordkeeping skills and beginning paraprofessional counseling skills emphasized. Prerequisites: CHD161.   | 2 Credits | CHD250<br>Group Interventions with the Chemically Dependent<br>Focus on group dynamics and group process as they relate to chemical dependency. Exploration of group developmental stages, family intervention models, various counseling approaches/techniques and their application to therapeutic, education and family groups. Prerequisites: CHD165 with a grade of "C" or better, or departmental approval.                              |
| CHD215<br>Adult Children of Alcoholics<br>Exploration of current research and issues related to the major adjustment problems of adult children of alcoholics. Emphasis placed on etiology, characteristics, post-traumatic stress, family systems, and treatment. Prerequisites: CHD100 with a grade of "C" or better, or departmental approval. | 1 Credit  | CHD265<br>Co-Dependency<br>Theory and application of current research in co-dependency, a recognizable pattern of dysfunctional personality traits, predictably found within most members of chemically dependent families. Emphasis on characteristics, techniques for evaluation, intervention, and treatment. Prerequisites: CHD100 or departmental approval.   |
| CHD220<br>Family Dynamics and Chemical Dependency<br>Analysis of the impact of addictions on all the members of a family. Interviewing, assessment and therapeutic approaches particularly useful for these family members presented. Prerequisites: CHD165 with a grade of "C" or better, or departmental approval.                              | 3 Credits | CHD275<br>Advanced Theory and Techniques in the Treatment of the Chemically Dependent<br>Capstone course for level two certificate in chemical dependency program. Focus on chemical dependency counseling theories and techniques used by chemical dependency paraprofessionals as they relate to the client and family members. Prerequisites: CHD220, CHD226, CHD245 and CHD250 with a grade of "C" or better, or permission of instructor. |
| CHD226<br>Counseling Multicultural and Diverse Populations<br>Exploration of implications of chemical use on multicultural and diverse populations. Emphasis on area influences as well as the impact of paraprofessional relationships. Prerequisites: CHD165 or departmental approval.  | 3 Credits | CHD280<br>Chemical Dependency Practicum<br>Opportunity for advanced students to use his/her developed knowledge and skills in an applied setting with supervision. Prerequisites: CHD270 with a grade of "C" or better, or departmental approval.  |
| CHD236<br>Recovery and Relapse of the Chemically Dependent<br>Review of the bio-psycho-social processes of recovery and relapse in chemical dependency. Exploration into those factors that both contribute to and inhibit recovery and   | 2 Credits |  |

Chemical Dependency • Chemistry • Child/Family Studies

**CHD285** 1 Credit  
**Chemical Dependency Seminar**

Special topics in chemical dependency with an emphasis on current issues not covered in other chemical dependency courses. Prerequisites: Departmental approval. Course Note: May be repeated for a total of four (4) credit hours.

**CHD294** 3 Credits  
**Advanced Foundations of Chemical Dependency**

In-depth review of the principles and concepts of the chemical dependency field for paraprofessionals and professionals working in the area and/or preparing for certification exams. Emphasis on historical antecedents of treatment efforts and legislation, pharmacology, special populations, family issues, co-dependency, ACOA and self-help groups. Prerequisites: Departmental approval.



## ■ Chemistry

**CHM130** 3 Credits  
**Fundamental Chemistry**

Elements of general chemistry for all students. Serves to prepare the student for CHM151 or CHM230. Prerequisites: Grade of "C" or better in CHM090 or MAT091, or MAT092 or

MAT102 or satisfactory score on math placement exam.

**CHM130LL** 1 Credit  
**Fundamental Chemistry Lab**

Laboratory experience in support of CHM130. Prerequisites or Corequisites: CHM130.

**CHM138** 3 Credits  
**Chemistry for Allied Health**

Elements of fundamental and organic chemistry. Includes the general chemical behavior of inorganic matter and the structure of organic and biochemical systems. This course is designed for specific allied health programs at MCCC. It may not be applicable to other allied health programs or transferable. Prerequisites: Grade of "C" or better in CHM090; or one year of high school chemistry with a grade of "C" or better; or MAT092 or MAT102 or satisfactory score on placement exam.

**CHM138LL** 1 Credit  
**Chemistry for Allied Health Lab**

Laboratory experience in support of CHM138, Chemistry for Allied Health. Prerequisites: None. Corequisites: CHM138.

**CHM151** 3 Credits  
**General Chemistry I**

A detailed study of the principles of chemistry. Designed for science majors and students in pre-professional curricula. Completion of CHM151LL required to meet the Natural Science requirement. Prerequisites: (CHM130 and CHM130LL), or one year of high school chemistry

with a grade of "C" or better, and completion of Intermediate Algebra or equivalent.

**CHM151LL** 1 Credit  
**General Chemistry I Lab**

Laboratory experience in support of CHM151. Prerequisites: CHM130LL or equivalent. Prerequisites or Corequisites: CHM151.

**CHM152** 3 Credits  
**General Chemistry II**

A study of the chemical properties of the major groups of elements, equilibrium theory, thermodynamics, electrochemistry, and other selected topics. Completion of CHM152LL required to meet the Natural Science requirement. Prerequisites: CHM151 and CHM151LL.

**CHM152LL** 1 Credit  
**General Chemistry II Lab**

Laboratory experience in support of CHM152. Prerequisites: CHM151LL or equivalent. Prerequisites or Corequisites: CHM152.



## ■ Child/Family Studies

**CFS102** 1 Credit  
**Emergency Care For Child Care Providers**

Basic emergency medical care for child care providers. Emphasis on design of emergency plan of action, Basic Life Support, recognition and management of common childhood injuries

and illnesses. Designed to meet the Arizona Department of Health Services child care worker requirements. Prerequisites: None.

**CFS105** 1 Credit  
**Personal and Family Role Development**

Basic principles of self-esteem, assertiveness training, decision-making and problem-solving as related to parents' roles in the family unit. Prerequisites: None.

**CFS109AA** 1 Credit  
**Parent-Child Communication Lab**

Practice in communication between parents and children. Methods and activities for building self-esteem, helping children deal with their feelings, engaging cooperation, setting limits and encouraging autonomy. Demonstration of discipline alternatives and stimulation of positive parent/child interactions. Prerequisites: None. Corequisites: CFS109.

**CFS110** 1 Credit  
**Family Communication Process**

Problem-solving techniques for improving family communications. Active listening, resolving conflicts and self-enhancing behavior. Prerequisites: None.

Child/Family Studies • Communication • Computers

**CFS159** 3 Credits  
**The Modern Family**  
 An examination of the modern American family. Special emphasis on the changing functions and roles of individuals within today's society and an analysis of the basic problems confronting the family, including alternative family styles. Prerequisites: None.

**CFS176** 3 Credits  
**Child Development**  
 Study of human development from the prenatal stage through adolescence, with consideration of parent and adult roles in the life experience of the growing child. Independent observation of children and personal investigation into child-related issues in contemporary America included. Prerequisites: None.

**Clinical Dental Assisting**

*For a list of course descriptions see Dental Assisting on page 173.*

**Communication**

**COM100** 3 Credits  
**Introduction to Human Communication**  
 Theory and practice of communication skills in public, small group, and interpersonal settings. Includes study of the speech communication process. Prerequisites: None.

**COM110** 3 Credits  
**Interpersonal Communication**  
 Theory and practice of communication skills which affect day-to-day interactions with other persons. Topics may include using verbal and nonverbal symbols, interactive listening, resolving interpersonal conflict, developing and maintaining personal and professional relationships. Prerequisites: None.

**COM225** 3 Credits  
**Public Speaking**  
 Designed to improve one's self-confidence and self-concept through improving communication skills used in public speaking. To enhance each student's ability to present his/her ideas in an organized, time constrained format. To improve critical thinking skills and enhance student's ability to express himself or herself objectively, subjectively, and creatively. Prerequisites: ENG101 or ENG107 or equivalent.

**COM230** 3 Credits  
**Small Group Communication**  
 Principles and processes of small groups and development of skills for participation and leadership in small group settings. Practice in problem solving, decision making, and information sharing. Prerequisites: ENG101 or ENG107 or equivalent.

**COM263** 3 Credits  
**Elements of Intercultural Communication**  
 Basic concepts, principles, and skills for improving oral communication between persons from different minority, racial, ethnic, and cultural backgrounds. Prerequisites: None.

**Computer Information Systems**

*For a list of course descriptions see Computers below.*

**Computer Sciences**

*For a list of course descriptions see Computers below.*



**Computers**

Includes the following prefixes: (BPC) Business-Personal Computers, (CIS) Computer Information Systems, (CSC) Computer Sciences.

**BPC100** 2 Credits  
**Business-Personal Computers**  
 Introduction to the use of personal computers in the business environment. Computer hardware components, operating system functions and concepts. Procedures for running and using business application software to produce documents and spreadsheets. Prerequisites: None.

**BPC103AK** .5 Credit  
**Using Word: Level I**  
 Use of Word to create, manipulate and print documents on a microcomputer. Prerequisites: None.

**BPC103BK** .5 Credit  
**Using Word: Level II**  
 Advanced concepts and skill development using Word to format, layout and design quality documents. Prerequisites: BPC102AD and BPC103AK, or permission of department.

**BPC103CK** .5 Credit  
**Using Word: Level III**  
 Skill development using Word software to produce professional quality documents and web pages utilizing efficiency tools of Word including macros, merge processing and table formatting. Prerequisites: BPC103BK or permission of department.

**BPC103DA** .5 Credit  
**Document Integration: Microsoft Office**  
 Utilization of Microsoft (MS) Office integrated software program. Includes customization, sharing data, hyperlinks and document integration features. MS Office Shortcut Bar, Office Binder and tools also included. Prerequisites: BPC103AK or BPC135DK; BPC104AD or BPC/CIS114DE; BPC118AB; BPC/CIS121AE or BPC/CIS121AG; BPC106AH or permission of instructor.

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| <p><b>BPC104AD</b> .5 Credit<br/>Using Excel: Level I<br/>Use of Excel to create, edit, save and print worksheets. Prerequisites: None.</p>  | <p><b>BPC111AA</b> 1 Credit<br/><b>Computer Keyboarding I</b><br/>Mastery of essential microcomputer keyboarding skills. Emphasis on touch typing of alphabetic and numeric keys and symbols. Prerequisites: None.</p>   |
| <p><b>BPC104BD</b> .5 Credit<br/>Using Excel: Level II<br/>Use of Excel to enhance worksheets to include graphing and formatting data, using complex formula and function expressions to build and analyze data, and special print options to output worksheets and graphs. Prerequisites: BPC104AD or permission of instructor.</p>   | <p><b>BPC111AB</b> 1 Credit<br/><b>Computer Keyboarding II</b><br/>Further development of microcomputer keyboard speed and accuracy. Emphasis on touch typing with speed and accuracy development of numerals as related to preparation and handling of documents. Prerequisites: BPC/OAS111AA or permission of instructor.</p>  |
| <p><b>BPC104CD</b> .5 Credit<br/>Using Excel: Level III<br/>Use of Excel to produce worksheets utilizing macros for template development and automation of repetitious tasks, and worksheet methods for the storage and management of data. Prerequisites: BPC104BD or permission of instructor.</p>   | <p><b>BPC114DE</b> 3 Credits<br/><b>Excel Spreadsheet</b><br/>Computer spreadsheet skills for solving business problems using Excel, including calculations, forecasting, projections, macro programming, database searching, extraction, linking, statistics, and matrix manipulation. Production of graphs and reports. Project design using multiple, integrated spreadsheets. Prerequisites: None.</p>   |
| <p><b>BPC106AH</b> .5 Credit<br/>Microsoft Outlook: Level I<br/>Messaging and word processing functions of a Microsoft Outlook electronic work state. Prerequisites: None.</p>   | <p><b>BPC115AA</b> 1 Credit<br/><b>Personal Finance Software: Quicken - Level I</b><br/>Introduction to the basic features of Quicken, a computerized personal finances software program. Prerequisites: None.</p>   |
| <p><b>BPC106BH</b> .5 Credit<br/>Microsoft Outlook: Level II<br/>Microsoft Outlook features including sort, filter and group items; templates and forms; information sharing by public folders and Net Folders; share and fax contacts; and record activities in the Journal. Outlook environment customization also covered. Prerequisites: BPC106AH or permission of instructor.</p> | <p><b>BPC119</b> 1 Credit<br/><b>Basic Data Entry Activities</b><br/>Development of speed and accuracy of data entry skills. Includes vocabulary, keyboard drills, and data entry simulations. Prerequisites: (BPC111AA or OAS111AA or OAS101AA) or permission of instructor, OAS118 recommended but not required.</p>   |
| <p><b>BPC107AH</b> .5 Credit<br/>Using Access: Level I<br/>Use of Access to create, edit and selectively report data. Prerequisites: None.</p>   | <p><b>BPC120DB</b> 1 Credit<br/><b>Microcomputer Graphics: MacPowerpoint</b><br/>Provides students with the capability to use MacPowerpoint graphics software on a microcomputer. Basic foundation course in the use of electronic techniques to create, manipulate, and edit images, text, abstract art, graphics design, color graphics and business charts. Prerequisites: None.</p>  |
| <p><b>BPC107BH</b> .5 Credit<br/>Using Access: Level II<br/>Use of Access commands to manipulate data files, generate data entry screens, generate complex reports with multiple level totals, transport data between a computer database program and other programs. Creation and use of command files. Prerequisites: BPC107AH or permission of instructor.</p>                      | <p><b>BPC121AB</b> 1 Credit<br/><b>MS-DOS Operating System</b><br/>Use of the MS-DOS operating system: basic concepts, internal and external commands, subdirectories, and editor. Prerequisites: None.</p>  |
| <p><b>BPC107CH</b> .5 Credit<br/>Using Access: Level III<br/>Use of Access features and commands to analyze data by creating complex queries, enhance forms and reports, and work with Access on the Internet. Prerequisites: BPC107BH or permission of instructor.</p>  | <p><b>BPC125</b> 1 Credit<br/><b>Microcomputer Set Up and Maintenance</b><br/>How to install and maintain a microcomputer (personal computer). Steps used to set up a new or add options to a previously installed microcomputer. Installation of internal options (memory, graphics, modems, etc.), as well as external options and devices (printers, monitors, communications, etc.). Trouble shoot (identify and repair or have repaired) microcomputer problems. Prerequisites: CIS105, or BPC/CIS121AB, or BPC/CIS121AC, or BPC/CIS121AE, or BPC/CIS121AF, or BPC110, or permission of instructor.</p> |
| <p><b>BPC110</b> 3 Credits<br/><b>Computer Usage and Applications</b><br/>Exploration of computer operations and uses. Specific applications to business-personal computers. Prerequisites: None.</p>  |  |

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| <p><b>BPC128</b><br/> <b>Introduction to Desktop Publishing</b><br/>                     Presents basic concepts of commercially prepared software used to do desktop publishing. Incorporates a combination of narrative and pictorial/graphic creation and presentation, including set up, text entry, graphic generation, text and graphic merging, and other computer-based functions. Prerequisites: None.</p>  | <p>1 Credit</p>  | <p><b>BPC214DE</b><br/> <b>Advanced Excel Spreadsheet: Level II</b><br/>                     Advanced Excel spreadsheet features including formatting techniques, macros and Visual Basic for applications. Templates, built-in functions and lists as well as analysis tools including Pivot Tables and Goal Seek covered. Import and export data, workgroup collaboration and Internet features of Excel emphasized. Prerequisites: CIS114DE or permission of instructor.</p>  | <p>3 Credits</p> |
| <p><b>BPC128AF</b><br/> <b>Introduction to Desktop Publishing: MS Publisher</b><br/>                     Presents basic concepts of commercially prepared software used to do desktop publishing. Incorporates a combination of narrative and pictorial/graphic creation and presentation, including set up, text entry, graphic generation, text and graphic merging, and other computer-based functions. Prerequisites: None.</p>  | <p>1 Credit</p>  | <p><b>BPC225</b><br/> <b>Computer Configuration and Enhancement</b><br/>                     Configuration and enhancement of a computer. Emphasis on configuration of hardware and software to optimize computer performance. Includes memory configuration and the identification and troubleshooting of configuration problems. Prerequisites: BPC125 or permission of instructor.</p>  | <p>1 Credit</p>  |
| <p><b>BPC135DD</b><br/> <b>Word Processing Software: WordPerfect</b><br/>                     Using WordPerfect word processing software to create and name files, edit text, format, and print a variety of documents. Prerequisites: The ability to use a keyboard at a minimum of 24 wpm or permission of instructor.</p>   | <p>2 Credits</p> | <p><b>BPC235DD</b><br/> <b>Advanced Word Processing Software: WordPerfect</b><br/>                     Using WordPerfect word processing software features such as math, columns, macros, styles, graphics, sort, outlines, and table of contents. Prerequisites: BPC/OAS135DD or permission of instructor.</p>  | <p>2 Credits</p> |
| <p><b>BPC135DK</b><br/> <b>Word Processing Software: Word</b><br/>                     Using Word word processing software to create and name files, edit text, format, and print a variety of documents. Prerequisites: The ability to use a keyboard at a minimum of 24 wpm or permission of instructor.</p>   | <p>2 Credits</p> | <p><b>BPC235DK</b><br/> <b>Advanced Word Processing Software: Word</b><br/>                     Using Word word processing software features such as math, columns, macros, styles, graphics, sort, outlines, and table of contents. Prerequisites: BPC/OAS135DK or permission of instructor.</p>  | <p>2 Credits</p> |
| <p><b>BPC138AA</b><br/> <b>Windows Desktop Design &amp; Publishing</b><br/>                     Use of Windows-based microcomputers and appropriate commercial software package to compose and print textual and graphic materials of high quality. Includes overview of micro operating system, word processing of copy, use of graphics programs, layout of design elements, and printing alternatives. Prerequisites: CIS105 or BPC110 or permission of instructor.</p>     | <p>3 Credits</p> | <p><b>BPC238AA</b><br/> <b>Windows Advanced Desktop Publication</b><br/>                     Advanced use of MS-DOS microcomputers and commercial software packages to compose and print textual and graphic materials of high quality. Includes review of fundamental desktop techniques and concepts, alternative treatment of copy, use of complex graphics programs, typographical manipulation, color separating, exploration of alternative layout programs, preparation of larger-scale and unusual publications, and additional printing alternatives. Prerequisites: BPC138AA or permission of instructor.</p>      | <p>3 Credits</p> |
| <p><b>BPC138AB</b><br/> <b>Macintosh Desktop Design &amp; Publishing</b><br/>                     Use of Macintosh based microcomputers and appropriate commercial software package to compose and print textual and graphic materials of high quality. Includes overview of micro operating system, word processing of copy, use of graphics programs, layout of design elements, and printing alternatives. Prerequisites: CIS105 or BPC110 or permission of instructor.</p> | <p>3 Credits</p> | <p><b>BPC238AB</b><br/> <b>Macintosh Advanced Desktop Publication</b><br/>                     Advanced use of Macintosh microcomputers and commercial software packages to compose and print textual and graphic materials of high quality. Includes review of fundamental desktop techniques and concepts, alternative treatment of copy, use of complex graphics programs, typographical manipulation, color separating, exploration of alternative layout programs, preparation of larger-scale and unusual publications, and additional printing alternatives. Prerequisites: BPC138AB or permission of instructor.</p> | <p>3 Credits</p> |
| <p><b>BPC170</b><br/> <b>Computer Maintenance I: A+ Prep</b><br/>                     Technical aspects of the microcomputer, including system set up (hardware and software) and basic troubleshooting. Emphasis on basic troubleshooting, use of tools, hardware components and hardware/software interfacing. Prerequisites: CIS105 and BPC121AB or permission of instructor.</p>   | <p>3 Credits</p> | <p><b>BPC278</b><br/> <b>Software Installation - MS Windows</b><br/>                     Installing and configuring microcomputer software. Emphasis placed on the installation, configuration, upgrade, and related problem resolution of microcomputer</p>   | <p>3 Credits</p> |

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| <p>operating system and applications software. Prerequisites: CIS105, CIS121, CIS114 (any module whose course number suffix begins with a "D"), CIS117 (any module whose course number suffix begins with a "D"), and BPC170 with grade of "C" or better, or permission of instructor.</p>  | <p>CIS109<br/>LAN Operations and Concepts</p>   | <p>1 Credit</p>  |
| <p>BPC298AA<br/>Special Projects</p> <p>Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: None.</p> | <p>Overview of basic local area networking concepts. Introduction to industry language, computer network hardware, LAN operating systems, and data communication basics. Prerequisites: BPC/CIS121AB, or (BPC102AA and BPC102BA), or CIS105, or BPC110, or permission of instructor.</p>  | <p>1 Credit</p>  |
| <p>BPC298AB<br/>Special Projects</p> <p>Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: None.</p> | <p>CIS114DE<br/>Excel Spreadsheet</p> <p>Computer spreadsheet skills for solving business problems using Excel, including calculations, forecasting, projections, macro programming, database searching, extraction, linking, statistics, and matrix manipulation. Production of graphs and reports. Project design using multiple, integrated spreadsheets. Prerequisites: None.</p> | <p>3 Credits</p> |
| <p>BPC298AC<br/>Special Projects</p> <p>Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: None.</p> | <p>CIS115<br/>Managing Computer Projects</p> <p>Fundamentals of project implementation, development and management. Includes project plan, budget, initiation, evaluation and review. Also covers project manager responsibilities as well as software development issues and prototyping techniques. Prerequisites: CIS105 or permission of instructor.</p>                          | <p>3 Credits</p> |
| <p>BPC298AA<br/>Special Projects</p> <p>Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: None.</p> | <p>CIS117DM<br/>Microsoft Access: Database Management</p> <p>Introduction to the basic elements, exploration of additional components and common database management problems related to the Microsoft Access program. Combines the contents of BPC/CIS117AA and BPC/CIS117BA and BPC/CIS117CA. Prerequisites: None.</p>  | <p>3 Credits</p> |
| <p>CIS100<br/>Internet: A Tool for Learning</p> <p>Use of the Internet to promote learning. Focus on Internet services and access. Information provided on browsing, Internet addresses, naming conventions, search concepts and techniques, using bookmarks and capturing information. Prerequisites: None.</p>  | <p>CIS118AB<br/>Powerpoint: Level I</p> <p>Use of Powerpoint software to produce professional-quality presentation visuals. Prerequisites: None.</p>  | <p>1 Credit</p>  |
| <p>CIS102<br/>Customer Service/Technical Support</p> <p>Examines behaviors necessary to develop and support an effective client service organization. Focuses on methods of increasing the effectiveness of help-desk professionals when responding to a range of customer conditions. Prerequisites: None.</p>   | <p>CIS118BB<br/>Powerpoint: Level II</p> <p>Use of Powerpoint software to add movement and sound to desktop presentations to enhance audience attention. Prerequisites: BPC/CIS118AB.</p>   | <p>1 Credit</p>  |
| <p>CIS105<br/>Survey of Computer Information Systems</p> <p>Overview of computer information systems, fundamental computer concepts, and programming techniques. Hands-on experience with selected business software and one programming language. Prerequisites: None.</p>   | <p>CIS120AF<br/>Computer Graphics: Adobe Photoshop</p> <p>Provides students with the capability to use IBM Adobe Photoshop graphics software on a microcomputer. Basic foundation course in the use of electronic techniques to create, manipulate, and edit images, text, abstract art, graphics design, and color graphics. Prerequisites: None.</p>                                | <p>1 Credit</p>  |
| <p>CIS105<br/>Survey of Computer Information Systems</p> <p>Overview of computer information systems, fundamental computer concepts, and programming techniques. Hands-on experience with selected business software and one programming language. Prerequisites: None.</p>   | <p>CIS120BA<br/>Computer Graphics: IBM Adobe Illustrator – Level I</p> <p>Provides students with the capability to use IBM Adobe Illustrator graphics software on a computer. Basic foundation course in the use of electronic techniques to create, manipulate, and edit images, graphics design, and color graphics. Prerequisites: None.</p>                                       | <p>1 Credit</p>  |

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| <p>CIS120BB<br/>Computer Graphics: IBM Adobe Illustrator – Level II<br/>Provides students with the capability to use IBM Adobe Illustrator graphics software on a computer. Basic foundation course in the use of electronic techniques to create, manipulate, and edit images, text, abstract art, graphics design, color graphics and business charts, and create a PDF file. Prerequisites: BPC/CIS120BA.</p>  | <p>1 Credit</p>  | <p>CIS121AG<br/>Windows 98 - Level I<br/>Specific topics include booting and shutting down the computer, navigating the desktop, start button features, taskbar status, and receiving online help support. Exploring and managing folders and files, running programs, and learning about Wordpad and Paint application programs. Prerequisites: None.</p>  | <p>1 Credit</p>  |
| <p>CIS120BC<br/>Computer Graphics: IBM Adobe Illustrator – Level III<br/>Provides students with the capability to use IBM Adobe Illustrator graphics software on a computer. Basic foundation course in the use of electronic techniques to create, manipulate, and edit images, text, graphics design, color graphics, determine file formats appropriate for web and print, and utilize tools to optimize graphics. Prerequisites: BPC/CIS120BB.</p>                                  | <p>1 Credit</p>  | <p>CIS122AC<br/>UNIX Operating System: Multi-User<br/>The use of the UNIX operating system on a midrange or mainframe computer; basic concepts, commands, file organization and management, and task management. Prerequisites: None.</p>   | <p>1 Credit</p>  |
| <p>CIS120BD<br/>Computer Graphics: IBM Adobe Illustrator<br/>Provides students with the capability to use IBM Adobe Illustrator graphics software on a computer. Basic foundation course in the use of electronic techniques to create, manipulate, and edit images, text, abstract art, graphics design, color graphics, and business charts; determine file formats appropriate for web and print, utilize tools to optimize graphics and create a PDF file. Prerequisites: None.</p> | <p>3 Credits</p> | <p>CIS122AE<br/>Windows Operating System: Level II<br/>Additional capabilities of the Windows '95 program that configure devices and customize the presentation of the operating system. System tools, control panel utilities, the My Computer, Network Neighborhood, and Microsoft Exchange desktop icons. Other helpful utilities presented. Prerequisites: BPC/CIS121AE or permission of instructor.</p>              | <p>1 Credit</p>  |
| <p>CIS120DC<br/>Computer Graphics: Macromedia Flash<br/>Provides students with the ability to use Macromedia Flash 5.0 graphics software on microcomputers. Covers basic animation techniques used in the creation, manipulation, and editing of Flash animation graphics. Prerequisites: None.</p>   | <p>3 Credits</p> | <p>CIS122AG<br/>Windows 98 - Level II<br/>Microsoft (MS) Windows 98 network software package. Covers enhanced features, user interface enhancements, maintenance and troubleshooting tools. Configuration emphasized. Prerequisites: BPC121AG or CIS121AG.</p>  | <p>1 Credit</p>  |
| <p>CIS120DF<br/>Computer Graphics: IBM Adobe Photoshop<br/>Provides students with the capability to use Adobe Photoshop graphics software on a computer. Basic foundation course in the use of electronic techniques to select, manipulate, and edit images, for graphic design and image correction. Prerequisites: None.</p>  | <p>3 Credits</p> | <p>CIS124AA<br/>Project Management Software: Level I<br/>Utilization of project management software packages by managers and advanced business students to solve critical management planning tasks. Evaluation of management opportunities utilizing software packages to monitor project progress and resource allocation. Includes "what-if" analysis, and preparation of management reports. Prerequisites: None.</p> | <p>1 Credit</p>  |
| <p>CIS121AB<br/>MS-DOS Operating System<br/>The use of the MS-DOS operating system: basic concepts, internal and external commands, subdirectories, and editor. Prerequisites: None.</p>  | <p>1 Credit</p>  | <p>CIS124BA<br/>Project Management Software: Level II<br/>Advanced use of project management software. Covers features and functions to solve critical management planning tasks. Project communications, scheduling, resource allocation, tracking processes and importing and exporting data also covered. Project consolidation emphasized. Prerequisites: CIS124AA or permission of instructor.</p>                   | <p>1 Credit</p>  |
| <p>CIS121AE<br/>Windows Operating System: Level I<br/>Specific topics include booting and shutting down the computer, navigating the desktop, start button features, taskbar status, and receiving online help support. Exploring and managing folders and files, running programs, and learning about Wordpad and Paint application programs. Prerequisites: None.</p>   | <p>1 Credit</p>  | <p>CIS126DA<br/>UNIX Operating System<br/>Use of a UNIX operating system including system components, built-in commands, files, and directories, editors, and UNIX shell and command lines. Installation, configuration, and maintenance of a UNIX operating system. Create scripts and batch files, and maintain system communications. Prerequisites: None.</p>   | <p>3 Credits</p> |



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| <p>CIS131AB<br/>Internet for Teachers: Level I<br/>How schools are delivering education over the Internet; techniques used to expand use; strategies for in and out of classroom use; availability of important educational resources; future potential and disadvantages in relation to education. Some previous computer experience preferred. Prerequisites: None.</p>   | <p>1 Credit</p>  | <p>basic understanding of the process used to define and develop multimedia applications. Prerequisites: CIS105, or permission of instructor.</p>   |
| <p>CIS150<br/>Programming Fundamentals<br/>Structured program design and logic tools. Use of computer problems to demonstrate and teach concepts using appropriate programming language. Prerequisites: CIS105, or permission of instructor.</p>  | <p>3 Credits</p> |   |
| <p>CIS131BB<br/>Internet for Teachers: Level II<br/>Using the Internet in the classroom. Ethics and safety issues using the Internet with students covered as well as classroom and online activities. Prerequisites: CIS131AB.</p>   | <p>1 Credit</p>  | <p>CIS158<br/>COBOL Programming I<br/>Programming in structured COBOL for preparation of business reports. Hands-on computer experience. Prerequisites: CIS105, or permission of instructor.</p>  |
| <p>CIS131CB<br/>Internet for Teachers: Level III<br/>Internet use in the classroom. Covers teaching/learning resources, curriculum materials and teaching techniques. Collaborative projects and simple web page design included. Prerequisites: CIS131BB.</p>  | <p>1 Credit</p>  | <p>CIS159<br/>Visual Basic Programming I<br/>Use of the Visual Basic programming language to solve problems using suitable examples from business or other disciplines. Prerequisites: CIS105, or permission of instructor.</p>   |
| <p>CIS131DB<br/>Internet for Teachers<br/>Overview of Internet use in the classroom. History of the Internet and World Wide Web (WWW) covered as well as components, advantages and disadvantages of the Internet use and misuse of electronic communication. Also includes safety and ethical issues, teaching/learning resources, teaching techniques and collaborative projects. Simple web page design included. Prerequisites: None.</p> | <p>3 Credits</p> | <p>CIS162<br/>C Programming I<br/>Beginning C programming. Includes features needed to construct programs, functions, pointers, input and output options, data types, structures, and unions, and disk file operations. Prerequisites: CIS105, or permission of instructor.</p>   |
| <p>CIS133AA<br/>The Internet: Level I<br/>Overview of the Internet and its resources. Hands-on experience with various Internet communication tools. Prerequisites: None.</p>   | <p>1 Credit</p>  | <p>CIS162AB<br/>C++: Level I<br/>Beginning C programming. Includes features needed to construct programs, functions, pointers, input and output options, data types, structures, and unions, and disk file operations. Prerequisites: CIS105, or permission of instructor.</p>  |
| <p>CIS133BA<br/>The Internet: Level II<br/>Exploration of additional Internet resources. Hands-on experience with a variety of resource discovery and information retrieval tools. Prerequisites: CIS133AA.</p>   | <p>1 Credit</p>  | <p>CIS163AA<br/>Java Programming: Level I<br/>Introduction to Java programming. Includes features needed to construct Java Applets, Java Applications, control structures, methods, arrays, character and string manipulation, graphics, and object-oriented programming. Prerequisites: CIS105.</p>  |
| <p>CIS133CA<br/>The Internet: Level III<br/>Independent exploration of the Internet. Prerequisites: CIS133BA or permission of instructor.</p>   | <p>1 Credit</p>  | <p>CIS166<br/>Web Scripting/Programming<br/>Software development for Web sites, including client-side script and Common Gateway Interface (CGI) scripting. Covers Web-based transaction processing and use of databases in conjunction with the Web. Includes security issues. Prerequisites: (CIS233 or CIS126DA and prior programming experience/coursework) or permission of instructor.</p> |
| <p>CIS133DA<br/>The Internet/World Wide Web<br/>Overview of the Internet/WWW and its resources. Hands-on experience with various Internet/WWW communication, resource discovery, and information retrieval tools. Web page development also included. Prerequisites: None.</p>  | <p>3 Credits</p> |   |
| <p>CIS140<br/>Survey of Multimedia Technology<br/>Introduction to multimedia technology and its uses. Overview of the various hardware and software used in developing and delivering multimedia. Emphasis on how multimedia is used in education and training. Provides a</p>  | <p>2 Credits</p> | <p>CIS166AA<br/>Introduction to JavaScripting<br/>Introduction to basic JavaScript programming concepts including syntax. Covers Hypertext Markup Language (HTML), programming logic and debugging, as well as forms manipulation and animation. Prerequisites: CIS233DA or permission of instructor.</p>   |

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| <b>CIS167AB</b><br>Windows Programming Using Visual C++ and MFC<br>Visual C++ development environment; Microsoft Foundation Class (MFC) and Application Framework (AFX) architecture. Creating advanced Windows applications using Visual C++, MFC, ActiveX, and AFX. Prerequisites: CIS162AB, or permission of instructor.  | 3 Credits | <b>CIS175BC</b><br>Designing Data Services/Data Models<br>Procedures for extraction of data requirements from a conception model. Generation of a logical data design proceeding through the physical data design. Includes database systems and data access technologies. Prerequisites: None.   | 2 Credits |
| <b>CIS175AA</b><br>Microsoft Windows 95 System Administration<br>Knowledge and skills to install, configure, customize, optimize, maintain, and troubleshoot the Microsoft (MS) Windows 95 operating system in a Microsoft networking environment. User profiles and systems policy also covered. Prerequisites: CIS175AF or permission of instructor.   | 3 Credits | <b>CIS175CA</b><br>Upgrading Support Skills from<br>Windows NT 4.0 to Windows 2000<br>Information and skills necessary to support Windows 2000 networks. Addresses job-related tasks for the support professional using new and modified procedures in Windows 2000. Prerequisites: Departmental Approval.  | 3 Credits |
| <b>CIS175AF</b><br>Microsoft Networking Essentials<br>Overview of wide area networks with an emphasis on local area network. Includes terminology, hardware and software components, connectivity, network architecture, packet structure, topologies, communication standards and protocols, and security issues. Prerequisites: BPC110 or CIS105, or permission of instructor.                                   | 3 Credits | <b>CIS175CB</b><br>Designing a Microsoft Windows 2000<br>Directory Services Infrastructure<br>Information and skills necessary to design a Microsoft Windows 2000 directory services infrastructure in an enterprise environment. Includes key decision points for naming, delegation of authority, domain design and site topology design. Prerequisites: Departmental Approval.   | 2 Credits |
| <b>CIS175AH</b><br>Mastering Enterprise Development<br>Introduction to enterprise development. Managing business and data services using Microsoft Visual Basic, Component Object Model (COM), Dynamic-Link Libraries (DLLs), Microsoft Transaction Server (MTS), and ActiveX Data Objects (ADO), included. Prerequisites: CIS275AG or CIS268, or permission of instructor.  | 3 Credits | <b>CIS175CC</b><br>Designing a Microsoft Windows 2000<br>Networking Services Infrastructure<br>Information and skills necessary to design a Microsoft Windows 2000 networking services infrastructure design. Includes network foundation design, Internet and private networks connectivity, in addition to functionality, security and performance features of networking services. Prerequisites: Departmental Approval. | 2 Credits |
| <b>CIS175AJ</b><br>Microsoft Internet Explorer 4.0<br>Fundamental components of Microsoft Internet Explorer 4.0, including Outlook Express, NetMeeting, Internet Explorer Administration Kit (IEAK) and IEAK Wizard. Various web technologies and Dynamic Hypertext Markup Language (HTML) covered. Installation and configuration of applications emphasized. Prerequisites: CIS105, or permission of instructor. | 2 Credits | <b>CIS175CD</b><br>Designing a Microsoft Windows 2000<br>Migration Strategy<br>Information and skills necessary to select and design a migration strategy from Microsoft Windows NT Server 4.0 to an Active Directory. Includes planning processes, restructuring and upgrade strategies as well as deployment techniques. Prerequisites: Departmental Approval.  | 1 Credit  |
| <b>CIS175BA</b><br>Gathering and Analyzing Business Requirements<br>Introduction to design of a business solution. Covers information gathering, analyzation and presentation techniques and processes. Also includes development of usage scenarios and models for system behavior. Prerequisites: Departmental Approval.   | 2 Credits | <b>CIS175CE</b><br>Supporting a Microsoft Windows 2000<br>Network Infrastructure<br>Procedures for installing, configuring, managing and supporting a network infrastructure that uses Windows 2000 Server products. Covers Dynamic Host Configuration Protocol (DHCP) and Remote Access procedures in addition to routing and troubleshooting techniques. Prerequisites: Departmental Approval.                            | 3 Credits |
| <b>CIS175BB</b><br>Designing Business Solutions<br>Techniques for analyzing business requirements and developing business solutions. Includes Microsoft Solution Framework (MSF) and Microsoft Technology considerations, in addition to techniques and tools for designing business solutions. Prerequisites: Departmental Approval.  | 3 Credits | <b>CIS175CF</b><br>Implementing and Administering<br>Microsoft Windows 2000 Directory Services<br>Information and skills necessary to install, configure and administer Active Directory service. Also covers tasks required to implement Group Policy to centrally manage large numbers of users and computers. Prerequisites: Departmental Approval.  | 3 Credits |

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| <p>CIS175CG<br/>Designing a Secure<br/>Microsoft Windows 2000 Network<br/>Information and skills necessary to design a security framework for small, medium and enterprise networks using MS Windows 2000 technologies. Covers security risks and requirements, administrative access, user accounts, file resources, and backup procedures. Securing access emphasized. Prerequisites: None.</p>   | <p>3 Credits</p> | <p>and navigational design. Also includes designing for inter-activity. Prerequisites: CIS175IB.</p>  |
| <p>CIS175DA<br/>Microsoft Windows 2000 Network<br/>and Operating System Essentials<br/>Overview of Microsoft Windows 2000 network including operating system essentials. Covers administrative tasks and tools as well as user accounts, user rights and groups. Protocols, network topologies, network technologies and Internet connectivity also included. Prerequisites: Experience using Windows interface and general knowledge of hardware and networking concepts is recommended.</p> | <p>2 Credits</p> | <p>CIS176AB<br/>GroupWise 5.0 Administration<br/>Procedures to install GroupWise Administrator and the GroupWise client. Single domain-multiple post office system emphasized. Day-to-day administration tasks and GroupWise libraries also included. Prerequisites: CIS191 or CIS191DE or permission of instructor.</p> <p>CIS176AC<br/>Network Management Using ManageWise<br/>Set up and management of ManageWise. Monitoring and troubleshooting system emphasized including performance problems, and viruses. Installation and configuration also covered. Prerequisites: CIS190 and CIS245AE, or permission of instructor.</p> |
| <p>CIS175DB<br/>Implementing Microsoft Windows 2000 Professional<br/>Implementation of Microsoft (MS) 2000 Professional including MS 2000 Advanced Server. Covers installation, configuration and management of MS 2000 systems. User accounts, security policies, printing and mobile computing as well as disaster protection and recovery also included. Prerequisites: CIS175DA.</p>  | <p>3 Credits</p> | <p>CIS176NA<br/>Novell Network Plus<br/>Overview of fundamental networking knowledge and skills. Covers Open Systems Interconnection (OSI) Reference Model Layers. Topologies, transmission synchronization techniques and address/name resolution methods as well as Transfer Control Protocol/Internet Protocol (TCP/IP), Windows TCP/IP utilities, and network interface boards included. Various network security models, encryption, firewalls, remote access and troubleshooting techniques also covered. Prerequisites: None.</p>  |
| <p>CIS175EA<br/>Introduction to Structured Query Language<br/>Introduction to Structured Query Language. Focuses on the query operation, including data collection, grouping and multi-table queries. Prerequisites: None.</p>  | <p>1 Credit</p>  | <p>CIS190<br/>Introduction to Local Area Networks<br/>Overview of local area networks. Emphasis on the elements of a local area network, current issues and products, and use of a local area network. Includes terminology, hardware and software components, connectivity, resource monitoring and sharing, electronic mail and messaging, and security issues. Prerequisites: CIS105, or permission of instructor.</p>   |
| <p>CIS175EB<br/>Introduction to Programming<br/>Introduction to programming concepts with an emphasis on style and logical thinking. Covers complete program writing including looping, control breaks and arrays. Prerequisites: None.</p>   | <p>1 Credit</p>  | <p>CIS191<br/>Novell NetWare System Administration<br/>Knowledge and skills required to administer or manage a Novell NetWare local area network operating system. Level I, II, and III network management tasks. Prerequisites: CIS105, or permission of instructor.</p>   |
| <p>CIS175IA<br/>I-Net+ Certification<br/>Exploration of technologies involved in Internet development. Includes e-Commerce, web site developing and networking. Prerequisites: None.</p>  | <p>1 Credit</p>  | <p>CIS191DE<br/>Novell NetWare 5 System Administration<br/>Knowledge and skills required to administer or manage a Novell NetWare 5 local area network operating system. 5 network management tasks. Prerequisites: CIS105, or permission of instructor.</p>  |
| <p>CIS175IB<br/>Building Web Documents with HTML<br/>Basics of designing and developing web sites. Includes graphics, tables and image maps as well as multimedia procedures. Hypertext Markup Language (HTML) emphasized. Prerequisites: None.</p>   | <p>2 Credits</p> | <p>CIS191DL<br/>Microsoft Windows NT System Administration<br/>Knowledge and skills required to administer or manage a Microsoft Windows NT local area network operating system. NT network management tasks. Prerequisites: CIS105, or permission of instructor.</p>   |
| <p>CIS175IC<br/>Web Information and Media Design<br/>Concepts and skills necessary for effective web page design. Covers the design process including information</p>   | <p>3 Credits</p> |   |

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| CIS191EA   | 3 Credits | Prerequisites: CIS133DA and CIS191DL or permission of instructor. |
| <b>NetWare Service and Support</b>   |           |   |
| Knowledge and skills of administration, software installation and configuration. Prevent, diagnose, and resolve problems relating to storage devices, workstations, printing, server and network. Prerequisites: A solid background in DOS Windows and NetWare or permission of instructor.  |           |   |
| CIS192   | 3 Credits |   |
| <b>Microsoft Windows NT Workstation</b>  |           |   |
| Knowledge and skills necessary to configure, customize, optimize, and troubleshoot Windows NT, as well as to integrate networks. Prerequisites or Corequisites: CIS190.  |           |   |
| CIS193   | 3 Credits |   |
| <b>Microsoft Windows NT Server</b>   |           |   |
| Knowledge and skills to plan, install, configure, customize, and integrate networks with Windows NT Server operating system. Prerequisites or Corequisites: CIS192.  |           |   |
| CIS209AM   | 2 Credits |   |
| <b>Networking Technology II</b>  |           |   |
| Overview of computer network operation. Covers Open Systems Interconnection (OSI) reference model, Internet Protocol (IP) addressing, Transfer Control Protocol/Internet Protocol (TCP/IP), Protocol Stack, and Internet Packet Exchange (IPX) Protocol Stack. Subnet and super-net creation emphasized. Prerequisites: CIS109AM or permission of instructor.                  |           |   |
| CIS214DE   | 3 Credits |   |
| <b>Advanced Excel Spreadsheet: Level II</b>  |           |   |
| Advanced Excel spreadsheet features including formatting techniques, macros and Visual Basic for applications. Templates, built-in functions and lists as well as analysis tools including Pivot Tables and Goal Seek covered. Import and export data, workgroup collaboration and Internet features of Excel emphasized. Prerequisites: CIS114DE or permission of instructor. |           |   |
| CIS217AM   | 3 Credits |   |
| <b>Advanced Microsoft Access: Database Management</b>  |           |   |
| Basic database concepts including database design, primary and secondary key selection and relationships between tables. Queries, subforms, macros, events, Visual Basic modules and Access '97 Internet features also covered. Prerequisites: (BPC/CIS117CM or BPC/CIS117DM), and CIS159.   |           |   |
| CIS225   | 3 Credits |   |
| <b>Business Systems Analysis and Design</b>  |           |   |
| Investigation, analysis, design, implementation and evaluation of business computer systems. Prerequisites: Any programming language or permission of instructor.  |           |   |
| CIS226AB   | 3 Credits |   |
| <b>Internet/Intranet Server Administration-Windows</b>   |           |   |
| Set up and management of internet/intranet services, including World Wide Web (WWW) and Simple Mail Transfer Protocol (SMTP) in a Windows NT server environment. Includes coverage of security issues.   |           |   |
| CIS226AC   | 3 Credits |   |
| <b>Internet/Intranet Server Administration-Novell NetWare</b>  |           |   |
| Set up and management of internet/intranet services, including World Wide Web (WWW) and Simple Mail Transfer Protocol (SMTP) in a Novell NetWare server environment. Includes coverage of security issues. Prerequisites: CIS133DA or permission of instructor.  |           |   |
| CIS226AD   | 3 Credits |   |
| <b>Internet/Intranet Server Administration-IntranetWare</b>  |           |   |
| Set up and management of internet/intranet services, including World Wide Web (WWW) and Simple Mail Transfer Protocol (SMTP) in a IntranetWare server environment. Includes coverage of security issues. Prerequisites: CIS133DA or permission of instructor.  |           |   |
| CIS233AA   | 1 Credit  |   |
| <b>The Internet Web Publishing I</b>   |           |   |
| Introduction to designing and creating pages on the Internet's World Wide Web using the hypertext markup language (HTML). Hands-on experience authoring HTML and preparing beginning web documents. Prerequisites: CIS133BA or permission of instructor.   |           |   |
| CIS233AB   | 1 Credit  |   |
| <b>Internet Web Publishing: FrontPage Level I</b>  |           |   |
| Introduction to designing and creating pages on the Internet's World Wide Web using FrontPage 98. Hands-on experience authoring hypertext markup language (HTML) and preparing beginning web documents. Prerequisites: CIS133BA or permission of instructor.   |           |   |
| CIS233BA   | 1 Credit  |   |
| <b>The Internet Web Publishing II</b>  |           |   |
| Advanced hypertext markup language (HTML), including tables, forms, image maps, gateway scripts, and multimedia. Hands-on experience designing advanced web presentations. Prerequisites: CIS233AA or permission of instructor.  |           |   |
| CIS233BB   | 1 Credit  |   |
| <b>Internet Web Publishing: FrontPage Level II</b>   |           |   |
| Advanced hypertext markup language (HTML) using FrontPage 98. Covers tables, forms, image maps, gateway scripts, and multimedia. Hands-on experience of designed advanced web presentations. Prerequisites: CIS233AB or permission of instructor.  |           |   |
| CIS233CA   | 1 Credit  |   |
| <b>The Internet Web Publishing III</b>   |           |   |
| Introduction to Web server access, security and design issues. Covers emerging issues in web publishing. Prerequisites: CIS233BA or permission of instructor.  |           |   |

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| <p>CIS233DA 3 Credits<br/>The Internet Web Publishing<br/>Design and creation of presentations on the Internet's World Wide Web with the Web's hypertext markup language (HTML). Hands-on experience authoring HTML and preparing web documents. Covers emerging issues in web publishing. Prerequisites: CIS133BA or CIS133DA or permission of instructor.</p>  | <p>CIS263AA 3 Credits<br/>Java Programming: Level II<br/>Intermediate Java programming. Includes features needed to construct object-oriented programming, multithreading, multimedia, files, streams and data structure. Prerequisites: CIS163AA or permission of instructor.</p>  |
| <p>CIS235 3 Credits<br/>e-Commerce<br/>Introduction to Electronic Commerce on the Internet. Designing an electronic storefront including web page content and development, e-commerce site marketing, advertisement, legal and security considerations, credit card and other debit transaction covered. Also includes current issues in e-Commerce. Prerequisites: CIS233DA.</p>  | <p>CIS275AA 2 Credits<br/>Implementing Microsoft Internet Explorer 4.0<br/>Fundamental components of Microsoft Internet Explorer 4.0, including Outlook Express, NetMeeting, Internet Explorer Administration Kit (IEAK) and IEAK Wizard. Various web technologies and Dynamic Hypertext Markup Language (HTML) covered. Installation and configuration of applications emphasized. Prerequisites: Permission of instructor.</p>  |
| <p>CIS240 3 Credits<br/>Local Area Network Planning and Design<br/>Analysis of the needs and requirements for a local area network (LAN). Emphasis on basic systems analysis and design for a local area network, selection of appropriate hardware and software components. Includes current and future issues, needs analysis, cost estimation, selection of connectivity and network components, and issues relating to access, security, and support. Prerequisites: CIS190 or MST140 or permission of instructor.</p> | <p>CIS275AC 3 Credits<br/>Microsoft Transfer Control Protocol/Internet Protocol<br/>Knowledge and skills necessary to install, configure, use, and support Transfer Control Protocol/Internet Protocol (TCP/IP) on Microsoft Windows NT. Prerequisites: CIS192 or permission of instructor.</p>   |
| <p>CIS250 3 Credits<br/>Management Information Systems<br/>Business organization, control, and communication; database concepts; systems design; and computer systems. Prerequisites: CIS225.</p>  | <p>CIS275AF 3 Credits<br/>Mastering Distributed Application Design and Development<br/>Overview of tools used to design and develop distributed applications. Three tier design, structure and development covered. Types of components also included. Prerequisites: CIS268, or permission of instructor.</p>  |
| <p>CIS259 3 Credits<br/>Visual Basic Programming II<br/>Use of the Visual Basic programming language to identify and solve advanced problems using suitable examples from business or other disciplines. Prerequisites: CIS159 or permission of instructor.</p>  | <p>CIS275AG 3 Credits<br/>Mastering Visual Basic 6 Development<br/>Creating database applications using components. Covers design, optimization, and deployment of applications using Microsoft Visual Basic 6.0. Includes use of visual data access tools, class modules, ActiveX controls and data objects, and Component Object Model (COM) components. Creating Internet applications also covered. Prerequisites: CIS159 or permission of instructor.</p>  |
| <p>CIS262AA 3 Credits<br/>C: Level II<br/>Advanced level C programming. Programming with emphasis on data management, dynamic allocation, varied memory models, interfacing with the operating system, efficiency, and advanced debugging techniques. Prerequisites: CIS162AA or permission of instructor.</p>   | <p>CIS275AI 3 Credits<br/>Microsoft Visual Basic 6 Fundamentals<br/>Fundamentals of Visual Basic development environment including forms and controls. Writing code and creating applications emphasized. Debugging and elimination of errors also covered. Prerequisites: Permission of instructor.</p>  |
| <p>CIS262AB 3 Credits<br/>C++: Level II<br/>Advanced level C programming. Programming with emphasis on data management, dynamic allocation, varied memory models, interfacing with the operating system, efficiency, and advanced debugging techniques. Prerequisites: CIS162AB or permission of instructor.</p>   | <p>CIS275BD 3 Credits<br/>Microsoft Exchange Server 5.5 Series-Design and Implementation<br/>Design and implementation of Microsoft (MS) Exchange Server 5.5. Covers messaging systems, security issues, server architecture and installation procedures and problems. Intrasite and Intersite server communication also covered. Site connectors, X.400 connector and Dynamic Remote Access Service (RAS) connector as well as Internet Mail Service (IMS), News Service and Microsoft Outlook Web Access included. Prerequisites: CIS275BA or permission of instructor.</p> |

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| CIS275BE<br>Microsoft Exchange Server 5.5 Series-<br>Concepts and Administration<br>The concepts and administration of Microsoft (MS) Exchange Server 5.5. Covers server architecture, administration configuration and maintenance. Forms administration also covered. Prerequisites: CIS275BA or permission of instructor.  | 3 Credits | ilities for multi-dimensional analysis also included. Prerequisites: Permission of instructor.   |
| CIS275CB<br>Secure Web Access Using Microsoft Proxy Server 2.0<br>Overview of installation, configuration, troubleshooting Microsoft (MS) Proxy Server. Also includes planning, monitoring, security and filtering. Prerequisites: CIS275AC and CIS275CC, or permission of instructor.  | 1 Credit  | CIS275CM<br>Administering Microsoft Systems<br>Management Server 2.0<br>Administration of Microsoft Systems Management Server 2.0. Covers hardware and software inventory, query building, software metering and remote control functions. Creation of a software package and program also included. Prerequisites: Permission of instructor.    |
| CIS275CC<br>Microsoft Internet Information Server<br>Knowledge and skills required to configure and support an Internet or intranet site using Microsoft Internet Information Server. Includes Internet Concepts, File Transfer Protocol (FTP), the World Wide Web (WWW), Domain Name System (DNS), and security issues. Prerequisites: CIS192 or permission of instructor.   | 3 Credits | CIS275CN<br>Deploying and Supporting Microsoft Server 2.0<br>Basic knowledge and skills required to deploy and support Microsoft Systems Management Server (SMS) 2.0. Design a site, organize a site hierarchy and plan for resource needs emphasized. Restoring SMS site also covered. Prerequisites: Permission of instructor.                 |
| CIS275CE<br>Supporting Microsoft Systems<br>Network Architecture Server 4.0<br>Fundamentals of a Microsoft (MS) Systems Network Architecture (SNA) server. Includes server role, installation, configuration and maintenance as well as SNA printing, security issues, communications, and three-tier computing. Emphasis on hierarchical and peer-oriented environments. Prerequisites: CIS193, or permission of instructor. | 3 Credits | CIS275CO<br>Implementing Microsoft Site Server 3.0<br>Basic knowledge and skills required to implement, support, maintain, optimize, and troubleshoot web sites using Microsoft Site Server. Managing, deploying and searching content emphasized. Analyzing web site usage and content also covered. Prerequisites: Permission of instructor.   |
| CIS275CI<br>System Administration for<br>Microsoft Structured Query Language Server 7.0<br>Microsoft (MS) Structured Query Language (SQL) Server 7.0 system administration. Covers installation, configuration, security issues, database files and replication as well as backing-up, restoring and transferring data. Prerequisites: CIS105.  | 3 Credits | CIS275DA<br>Introduction to Application Development<br>Fundamental concepts and skills needed for an application developer. User interface and design, Structured Query Language (SQL), relational database design and programming concepts covered. Creating a simple database application emphasized. Prerequisites: Permission of instructor. |
| CIS275CJ<br>Implementing a Database on<br>Microsoft Structured Query Language Server 7.0<br>Implementation of a database on a Microsoft (MS) Structured Query Language (SQL) Server, version 7.0. Covers database creation as well as query techniques, indexes, transactions, locks, stored procedures, triggers and distributed data. Prerequisites: CIS105 or permission of instructor.                                    | 3 Credits | CIS275DB<br>Application Development Fundamentals and<br>Concepts<br>Application design and creation process, designing a database that supports a business application. Database integrity, programming guidelines, distribution and object oriented programming are also covered. Prerequisites: Permission of instructor.                      |
| CIS275CL<br>Implementing a Data Warehouse Using<br>Microsoft Structured Query Language Server 7.0.<br>Planning, implementing, and maintaining a data warehouse using Microsoft Structured Query Language (SQL) Server client/server database management system version 7.0. On-Line Analytical Processing (OLAP) server capa-   | 3 Credits | CIS275DC<br>Creating a Visual Basic Application<br>Creation of a complete business application using Microsoft Visual Basic. User interface, error handling, forms, and reports covered. Design, development, installation and debugging emphasized. Prerequisites: Permission of instructor.  |
|   |           | CIS276AB<br>GroupWise 5.0 Advanced Administration<br>Procedures to design, configure, and troubleshoot a GroupWise system with multiple domains. Creating and linking domains also included. Prerequisites: CIS176AB or permission of instructor.  |

Computers • Counseling and Personal Development

**CIS276AC** 2 Credits  
**GroupWise Net Access and Connectivity**  
 Internet access using GroupWise. Installing, configuring, optimizing, and troubleshooting covered. Mobile access configuration and foreign mail connections also included. Prerequisites: CIS276AB or permission of instructor.

**CIS276AD** 2 Credits  
**Novell Directory Services Design and Implementation**  
 Set up and management of Novell Directory Services (NDS). Covers user environment, synchronization strategy and tree structure. Design and implementation emphasized. Prerequisites: CIS245AE or permission of instructor.

**CIS276AE** 2 Credits  
**NetWare 4.11 to NetWare 5 Update**  
 Knowledge and skills to update NetWare 4.11 to NetWare 5. Installation, configuring, and troubleshooting emphasized. Evaluation of current system also included. Prerequisites: CIS245AE or permission of instructor.

**CIS276AF** 2 Credits  
**Securing Intranets with BorderManager**  
 Set up and management of BorderManager. Covers packet filtering, Network Address Translator (NAT), Internet Protocol (IP), Gateway and Proxy Cache Services. Installing and configuring emphasized. Prerequisites: CIS242 and CIS245AE or permission of instructor.

**CIS276AG** 3 Credits  
**NetWare 5 Advanced Administration**  
 Advanced NetWare 5 administration. Covers upgrading and installation of NetWare 5. Also includes NetWare Kernel, Server Console and NetWare Loadable Modules (NLMs) as well as queue-based printing, network file system, Domain Name Service/Dynamic Host Configuration Protocol (DNS/DHCP) and Novell Directory Services (NDS) tree. Server backup and remote access also covered. Prerequisites: CIS109AM and CIS191DE, or permission of instructor.

**CIS280** 3 Credits  
**Current Topics in Computing**  
 Critical inquiry of current topics in computing. Application of industry trends to solve problems and/or investigate issues. Prerequisites: None.

**CIS290AC** 3 Credits  
**Computer Information Systems Internship**  
 Work experience in business or industry. Prerequisites: Permission of instructor.

**CSC100** 3 Credits  
**Introduction to Computer Science for Non-Computer Majors**  
 Concepts of problem solving, structured programming in a C++, fundamental algorithms and techniques, and computer system concepts. Social and ethical responsibilities.

Intended for majors other than Computer Science. Prerequisites: MAT120 or MAT121 or MAT122.

**CSC150** 3 Credits  
**Programming in C/C++**  
 Introduction to C and C++ programming. Flow control, functions, pointers, data structures, file handling, and introduction to object-oriented programming. Prerequisites: Permission of instructor.

**CSC185** 3 Credits  
**World Wide Web and Introductory Internet Programming**  
 Organization of and access to information on the Internet. Design, creation and publication of interactive web pages with HTML, multimedia, animated custom graphics, applets and JavaScript programming. Ethical issues, including security and privacy on the World Wide Web. Prerequisites: None.

## ■ Counseling and Personal Development

**CPD102AA** 2 Credits  
**Assertiveness Training**  
 Designed to help students differentiate assertive, non-assertive and aggressive behavior, overcome blocks to acting assertively, and develop effective verbal and nonverbal assertive behavior. Group discussion, role playing, and videotape feedback to enable students to express feelings, beliefs, and opinions in a direct, appropriate manner. Prerequisites: None.

**CPD102AB** 2 Credits  
**Career Exploration**  
 Designed to assist students making career choices. Focus on self-assessment in terms of educational and career opportunities, and reasonable possibilities in the world of work. Includes assessment for personal/career interests, values, needs, attitudes, skills, and other potential, and exploration of occupational information to establish career and educational goals. Prerequisites: None.

**CPD102AD** 2 Credits  
**Eliminating Self-Defeating Behavior**  
 Designed to help students change behaviors that work against their potential, i.e., inferior feelings, shyness, nervousness, stage fright, under achievement etc. Focus on identifying undesirable thoughts, emotions and behaviors, for the purpose of developing alternative, and more desirable thoughts, emotions and behaviors. Prerequisites: None.

**CPD102AH** 2 Credits  
**Stress Management**  
 Reviews various physiological and psychological approaches to stress. Presents options and appropriate exercises for coping with anxiety. Prerequisites: None.

CPD102AT 2 Credits

**Building Self-Esteem**

Practice in specific methods for building and keeping self-esteem. Personal assessment of attitudes, values, support systems, and goals. Prerequisites: None.

CPD103BA 2 Credits

**Women In Transition**

Designed to assist and support women who are experiencing life transitions. Emphasis on assessing self-potential, increasing self-confidence, managing life change, and exploring education/career/life options in terms of the realities of roles for women today. Prerequisites: None.

CPD122 2 Credits

**Retirement Planning**

Focuses on cultural and social aspects of retirement planning with emphasis on financial planning, legal concerns, attitude and role adjustments. Prerequisites: None.

CPD123 1 Credit

**Employee Development: Personal Development**

Examination of personal values and positive self esteem. Also covers personal development skills including assertive behavior and decision making. Prerequisites: None.

CPD124 1 Credit

**Employee Development: Lifestyle Management**

Overview of the nature of stress and nutrition and its effect on lifestyle management. Development of coping skills for dealing with stressful situations in the workplace. Prerequisites: None.

CPD125 1 Credit

**Employee Development: Problem Solving/Decision Making**

Development of decision-making skills as well as techniques for problem solving. Focus on values and value conflicts as related to decision-making. Also includes establishing short and long-term goals for personal and career development. Prerequisites: None.

CPD127 1 Credit

**Workplace Resolution and Negotiation Strategies**

Basic workplace conflict resolution and negotiation strategies. Includes establishing and maintaining effective working relationships as well as options and alternatives to conflict resolution. Prerequisites: None.

■ **Covey**

COV110 2 Credits

**The Seven Habits of Highly Effective People**

Development of interpersonal habits that are used by successful people in their personal and professional lives. Seven Habits of Highly Effective People. Video-based lecture course. Prerequisites: None.



■ **Credit Services Industry**

CSI110 2 Credits

**The Credit Card Industry**

Overview of credit card industry. Includes banking history, laws and regulations, and corporate structure.

Emphasis on customer service department and customer service representative functions. Types of credit cards and credit card products also covered. Prerequisites: None.

CSI111 2 Credits

**History and Function of the Credit Card Industry**

History and function of the credit card industry. Covers operations and transaction order procedures in addition to terminal functionality, hotel procedures and use of the Merchant Management System (MMS). Prerequisites: None.

CSI112 2 Credits

**Introduction to the Bankcard Industry**

Introduction to the bankcard industry. Includes history and organization of the industry as well as bankcard and cardmember issues. Covers the application process and credit reviews in addition to the pre-approval process. Prerequisites: None.

CSI114 3 Credits

**Bankcard Industry Regulations/Procedures**

Regulations and procedures applicable to the bankcard industry. Covers the Fair Debt Collection Practices Act. Includes procedures for using the First Data Resources (FDR) system. Also covers procedures for special handling accounts and delinquencies. Prerequisites: None.

CSI116 3 Credits

**Bankcard Industry Law**

Overview of bankcard industry law. Includes the Fair Credit Reporting Act, the Equal Credit Opportunity Act and Truth in Lending issues. Covers payment rules and regulations, dispute issues and advance transaction procedures. Prerequisites: None.

CSI120 1 Credit

**Cardmember Customer Service**

Overview of customer care service for the credit card industry. Building a positive relationship with customers and customer loyalty emphasized. Prerequisites: None.

CSI121 2 Credits

**Cardmember Services and Procedures**

Procedures for providing bankcard industry customer service. Covers industry computer applications, account modification procedures, third party agreement and premium enrollment procedures, and processes for customer referral to specialty departments. Also includes form completion, risk management, fee justification, and dispute resolution policies. Prerequisites: CSI120.



COURSE DESCRIPTIONS

Credit Services Industry

|        |           |  |  |           |  |
|--------|-----------|--|--|-----------|--|
| CSI122 | 2 Credits | Introduction to Cardmember Services<br>Introduction to credit cardmember services. Covers job responsibilities of a cardmember service account manager. Enrollment processes, merging accounts and various credit card products and features also included. Use of a computer emphasized. Prerequisites: CSI120. | tion Practices Act (FDCPA) as well as techniques for effective positioning and selling. Prerequisites: None. |           |  |
| CSI123 | 2 Credits | Credit Card Customer Service<br>Procedures for handling credit card transactions using the Hypercom System. Covers response calls, Quit Duplicating (QD) situations and procedures for the incrementing/bumping process. Also includes effective customer service techniques. Prerequisites: None.               | CSI136   | 3 Credits | Credit Card Billing & Payments<br>Introduction to credit card billing and payment processes. Finance charges emphasized. Prerequisites: None.  |
| CSI124 | 3 Credits | Intermediate Cardmember Services<br>Credit cardmember services. Covers balance transfers, call handling procedures, statements, authorizations and payment disputes. Computer usage emphasized. Prerequisites: CSI122.   | CSI138   | 3 Credits | Processing Credit Card Accounts<br>Processing credit card accounts procedures. Includes credit lines, disputes and fraud. Bank pricing strategies also covered. Prerequisites: None.   |
| CSI126 | 2 Credits | Advanced Cardmember Services<br>Advanced credit cardmember services. Includes finance charges, lost/stolen reports, charge disputes and handling special requests. Prerequisites: CSI124.  | CSI140   | 2 Credits | Credit Card Telemarketing<br>Basic overview of credit card telemarketing. Covers definitions, traditional marketing methods, the telemarketer role and consumer credit structure. Customer feedback and customer management lifecycle also included. Prerequisites: None.  |
| CSI130 | 3 Credits | Cardmember Assistance<br>Overview of credit cardmember assistance. Policies and procedures emphasized. Communication tools and cardmember assistance telephone calls covered. Prerequisites: None.   | CSI142   | 2 Credits | Responsibilities of a Telemarketer<br>Telemarketing representative's responsibilities and performance management. Includes credit card basics, industry cycles, marketing features and credit card types. Computer system use emphasized. Prerequisites: None.   |
| CSI131 | 2 Credits | Credit Card Technology<br>Overview of computers in the credit card industry. Various computer screens and computer telephony integration system emphasized. Prerequisites: None.   | CSI144   | 3 Credits | Credit Card Telemarketing Strategies<br>Overview of credit card telemarketing strategies. Consultative selling and cross-selling marketing techniques as well as critical selling skills covered. Includes customer relationships, customer objections, pricing history, marketing segments and repricing. Laws and regulations also included. Prerequisites: None.  |
| CSI132 | 2 Credits | Cardmember Assistance Calls<br>Credit cardmember assistance telephone calling. Placing and answering cardmember phone calls emphasized. Use of a cardmember assistance account system also covered. Prerequisites: CSI130.   | CSI150   | 2 Credits | Credit Card Collection Guidelines<br>Overview of credit card collection laws. Includes collection polices and procedures. Credit card company background, products and collection department functions also covered. Prerequisites: None.  |
| CSI133 | 2 Credits | Bankcard Industry Account Maintenance<br>Account maintenance procedures for the bankcard industry. Includes procedures for navigating in the First Data Resources (FDR) system. Also covers phone etiquette and effective call flow. Prerequisites: None.  | CSI152   | 2 Credits | Credit Card Debt Collection<br>Overview of credit card debt collection via telephone. Includes collection call process as well as the basics of a collection computer system and collection call control. Collection programs for customers also covered. Prerequisites: None.   |
| CSI134 | 3 Credits | Bankcard Industry Sales Communications<br>Bankcard industry phone sales communications. Covers the Welcome Call program, phone etiquette, and customer support procedures. Also includes the Fair Debt Collec-   | CSI154   | 3 Credits | Cardmember Collection Services<br>Application of credit card collections department procedures. Covers customer service, communication, education, and negotiation strategies as well as fraud identification and account action processing procedures. Also includes legal issues, collection representative responsibility, general industry procedure and performance measure justification information. Prerequisites: None. |

COURSE DESCRIPTIONS

Credit Services Industry

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| <b>CSI155</b><br><b>Bankcard Industry Loss Prevention</b><br>Overview of the bankcard industry loss prevention area. Includes history of the industry and use of the First Data Resources (FDR) system for managing loss prevention. Also covers the Adaptive Control System, pre-call analysis and collection call procedures as well as use of the Unison communication system. Prerequisites: None. | 2 Credits | <b>CSI180</b><br><b>Commercial Bankcard Accounts</b><br>Procedures for providing business bankcard account services. Covers industry and internal software usage, customer statement provisions, billing options, truth in lending requirements, and product and service description information. Also includes general bankcard industry customer service responsibility summary. Prerequisites: None.   | 3 Credits |
| <b>CSI156</b><br><b>Credit Card Loss Prevention</b><br>Overview of security loss prevention in the credit card industry. Includes job responsibilities of loss prevention analysts and line control analysts. Bomb threat procedures, types of fraud, and fraud detection systems also covered. Computer usage and loss prevention phone calls emphasized. Prerequisites: None.                        | 2 Credits | <b>CSI181</b><br><b>Overview of Merchant Services</b><br>Overview of credit card merchant services. Covers terms and procedures as well as authorizations and credit analysis. Use of computer systems emphasized. Prerequisites: None.   | 2 Credits |
| <b>CSI160</b><br><b>Credit Card Fraud Overview</b><br>Overview of fraud in the credit card industry. Includes types of fraud, key indicators and prevention techniques as well as the laws and regulations that govern credit card use. Customer service, industry-specific computer systems and credit card procedures also covered. Prerequisites: None.   | 3 Credits | <b>CSI182</b><br><b>Commercial Bankcard Operations</b><br>Procedures for providing bankcard customer service to business customers. Covers transaction and convenience check distribution authorization procedures, application verification and account maintenance processes, and finance charge calculation. Also includes account closure and dispute processing procedures, benefit structure explanation and payment recommendation practices. Prerequisites: None. | 3 Credits |
| <b>CSI162</b><br><b>Credit Card Fraud Procedures I</b><br>Basic duties and procedures for Fraud Representatives in the credit card industry. Covers types and processes for reports and memos. Industry standard computer system emphasized. Prerequisites: None.  | 3 Credits | <b>CSI183</b><br><b>Merchant Services</b><br>Credit card merchant services. Telephone etiquette, communication skills and effective listening skills covered. Use of phone system as well as memos, queues, supply orders and codes also included. Prerequisites/Corequisites: CSI181.  | 2 Credits |
| <b>CSI164</b><br><b>Credit Card Fraud Procedures II</b><br>Application of credit card fraud procedures and techniques. Emphasis on industry standard computer system and general account procedures as well as reports, memos and fraud classifications. Prerequisites: CSR170 and CSR171.   | 2 Credits | <b>CSI184</b><br><b>Commercial Bankcard Practices</b><br>Use of bankcard industry customer service systems to provide business bankcard customer services. Covers application processing, secured card retail relationship determination, fraud identification, overdraft protection and customer service provisions to business bankcard account holders. Also includes telephone etiquette practices. Prerequisites: None.  | 3 Credits |
| <b>CSI166</b><br><b>Bankcard Industry Fraud</b><br>Policies and procedures for handling bankcard fraud situations. Covers types and warning signs of possible fraud. Also includes effective communication skills, quality service techniques and problem solving. Prerequisites: None.  | 2 Credits | <b>CSI185</b><br><b>Terminal Communication Procedures</b><br>Electronic terminal communication issues. Procedures for identifying and correcting communication errors as well as use of telephone terminals. Also covers classification of procedures and the staging/vapping process. Prerequisites: None.   | 3 Credits |
| <b>CSI170</b><br><b>Overview of Security Investigations</b><br>Overview of credit card security investigation. Includes duties of a security investigator, security procedures, types of fraud and fraud detection. Communication tools, cardmember phone calls and merchant phone calls also covered. Prerequisites: None.  | 3 Credits | <b>CSI186</b><br><b>Credit Card Terminals</b><br>Overview of credit card terminals. Covers types, components, features and access codes as well as printer types and usage. Prerequisites: None.  | 2 Credits |
| <b>CSI172</b><br><b>Security Investigations</b><br>Advanced credit card security investigations. Includes use of fraud detection computer systems and placement of cardmember phone calls. Fraud case investigations emphasized. Prerequisites: None.  | 2 Credits |   |           |

COURSE DESCRIPTIONS

Credit Services Industry

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| CSI187<br>Credit Card Terminal Policy and Procedures<br>Overview of credit card terminal policies and procedures. Covers warranties, replacing equipment and new equipment orders. Seasonal merchant accounts and change of ownership procedures also included. Prerequisites: None.  | 2 Credits | try compliant individual performance goals, team membership logistics, and locating acquirer information. Also includes retrieval request and workflow oriented account organization benefits. Prerequisites: None.  |
| CSI188<br>Credit Card Terminal Tracking<br>Overview of an online management compensation and tracking system for credit card terminals. Covers phone systems and command keys. Prerequisites: None.   | 1 Credit  | CSI196<br>Credit Card Processing<br>Practical application of credit card processing skills. Covers transaction orders, debits, and Electronic Benefits Transfer (EBT) procedures in addition to hotel, fine dining and Down Line Load (DLL) procedures. Prerequisites: None.   |
| CSI189<br>Credit Card Terminal Troubleshooting<br>Basic credit card terminal troubleshooting techniques. Covers hardware and communication problems. Troubleshooting rules, task based troubleshooting and common error messages also covered. Prerequisites: None.   | 2 Credits | CSI197<br>Bankcard Industry Chargeback Systems<br>Use of systems employed in performing bankcard industry chargeback customer service. Covers application of bankcard software in the provision of customer chargeback services, dispute procedures, and transaction and adjustment processing. Also includes customer notification policy and procedure information. Prerequisites: None. |
| CSI190<br>Merchant Reporting<br>Overview of credit card merchant reports. Covers report procedures and use of a report management distribution system. Handling of merchant accounts also covered. Prerequisites: None.   | 2 Credits | CSI210<br>Investment Banking<br>Overview of the investment banking industry. Includes communication process and investor services as well as various types of securities. Prerequisites: None.   |
| CSI191<br>Chargeback Service Methods<br>Bankcard industry chargeback customer service policies and procedures. Covers chargeback and reinstatement procedures, customer notification procedures, fraud identification and referral, and customization of written customer notification procedures. Also includes account organization information. Prerequisites: None. | 2 Credits | CSI212<br>Investing Systems<br>Systems used for executing and maintaining investment accounts. Includes the Investor Research and Information System (IRIS) and the Investar One System. Also covers Corporate Trust Agency Systems and the correspondence system. Prerequisites: None.  |
| CSI192<br>Merchant Settlement<br>Overview of credit card merchant settlement. Covers transactions, sales submissions, third party processors, and netting processes. Prerequisites: None.   | 2 Credits | CSI214<br>Investment Funds I<br>Exchange-Trade Fund (ETF) research and procedures. Covers dividends and capital gains as well as premiums, discounts and reinvestment procedures. Prerequisites: None.   |
| CSI193<br>Chargeback Service Processing<br>Procedures for processing bankcard industry customer chargebacks. Covers bankcard industry software system usage, adjustments, retrieval requests, and account information location procedures. Also covers form letter library access and disputed item processing procedures. Prerequisites: None.                         | 3 Credits | CSI215<br>Investment Funds II<br>Overview of mutual funds and money market accounts. Covers investor suitability, purchase plans and flexible pricing as well as investment advantages and risks. Prerequisites: None.   |
| CSI194<br>Merchant Research and Resolution<br>Research and resolution of a credit card merchant's account. Covers cardmember statements, settlement exceptions, and merchant fraud. Use of computer system also included. Prerequisites: None.  | 3 Credits | CSI220<br>Retail Banking<br>Overview of the retail banking industry. Includes communication skills and investor services, as well as an overview of securities. Prerequisites: None.   |
| CSI195<br>Bankcard Chargeback Services<br>Procedures employed in performing bankcard industry chargeback customer service. Covers the creation of indus-  | 2 Credits | CSI222<br>Retail Banking Services<br>Banking services concerning Unit Investment Trusts (UIT). Includes portfolio management, sponsors and trustees as well as distribution, redemptions and terminations. Prerequisites: None.  |

Credit Services Industry • Customer Service Representative

**CSI224** 2 Credits  
**Retail Investing Systems**  
 Systems used for maintaining investment accounts. Includes the Investor Research and Information System (IRIS) and the Corporate Trust Agency System along with the correspondence system. Prerequisites: None.

**CSR135** 3 Credits  
**Health Insurance Claims Processing**  
 Overview of computer usage in the health care insurance industry. Covers various online files, benefit screens, eligibility, precertification and hospital pricing. Claims processing emphasized. Prerequisites: None.

**Critical and Evaluative Reading**  
*For a list of course descriptions see Reading on page 200.*



■ **Customer Service Representative**

**CSR130** 3 Credits  
**Health Insurance Technology**  
 Overview of computers in the health care insurance industry. Covers various computer screens, online and manual data entry. Customer service worksheets included. Prerequisites: BPC110AA.

**CSR131** 3 Credits  
**General Health Insurance Enrollment Procedures**  
 Standard enrollment procedures for the health insurance industry. Covers insurance forms, codes, waivers, precertification, confidentiality and billing processes. Renewal processing and COBRA processing also included. Prerequisites: None. Corequisites: CSR132 and CSR133.

**CSR132** 2 Credits  
**Enrollment Services for Health Insurance**  
 Overview of health insurance enrollment services including provider and subscriber inquiries. Various processes including subscriber, dependent and retro-active also covered. Computer usage emphasized. Prerequisites: None. Corequisites: CSR131 and CSR133.

**CSR133** 2 Credits  
**Enrollment Payment Procedures**  
 Billing procedures for health insurance enrollment services. Covers cash system, remittance balance, transfers and revenue system as well as the billing process. Computer use emphasized. Prerequisites: None. Corequisites: CSR131 and CSR132.

**CSR134** 3 Credits  
**Provider Assistance**  
 Overview of provider assistance in the health care industry. Topics include contracts, benefits, eligibility and inquiries. Computer usage emphasized. Prerequisites: None.

**CSR164** 2 Credits  
**Prescription Customer Service Skills**  
 Mail order prescription customer service skills. Includes basic computer overview and computer use. Third party coverage, terms, patient registration and payment procedures covered. Prerequisites: None.

**CSR165** 3 Credits  
**Mail-Order Prescriptions**  
 Basic mail-order prescription information. Covers drug classifications, substitutions and pay codes as well as doctor and patient directions. Prerequisites: None.

**CSR166** 2 Credits  
**Mail-Order Prescriptions Lab**  
 Laboratory for handling mail order prescriptions. Patient registration, customer inquiries, telephone techniques and account receivable procedures covered. Use of computer emphasized. Prerequisites: None.

**CSR167** 3 Credits  
**Prescription and Order Entry**  
 Basic prescription and order entry. Covers patient information, codes, procedures, healthcare plans and registration procedures as well as terminology and exceptions. Prerequisites: None.

**CSR168** 2 Credits  
**Prescription and Order Entry Lab**  
 Laboratory for basic prescription and order entry. Prerequisites: None.

**CSR169** 3 Credits  
**Telecommunications Company Customer Service**  
 Customer contact associate responsibilities in customer service. Emphasis on procedure and applications of the Intelligent Work Station as well as reference navigation and the course management system. Also covers account access and maintenance. Prerequisites: Departmental approval.

**CSR173** 3 Credits  
**Telecommunications Billing/Rates**  
 Procedures for making call and rate determinations. Examination of the benefits and function on InterLATA and IntraLATA service as well as Dial 1 orders and charges. Also includes billing, commitments and calling plans. Prerequisites: Departmental approval.

**CSR174** 3 Credits  
**Inquiries and Adjustments**  
 Procedures for handling inquiries and calling plan adjustments. Covers international products and services as well as calling card account establishment and maintenance.

Customer Service Representative • Dental Assisting (Clinical)

Also includes use of the Order Status System. Prerequisites: Departmental approval.

**CSR175** 3 Credits  
Telecommunications Sales, Products and Features  
Procedures for handling special situations and customers. Includes rewards programs as well as special program products and features. Prerequisites: Departmental approval.

**CSR176** 2 Credits  
Customer Contact Associate Lab  
Practical application of the skills required of the Customer Contact Associate. Includes customer service, account maintenance and call classification as well as billing and rates. Also covers calling plans, international services and long distance accounts. Prerequisites: Departmental approval.

**CSR280AA** 1 Credit  
Customer Service Internship  
Customer service experience in business or industry. Eighty hours of designated work per credit. Maximum of eight credits allowed. Prerequisites: Departmental Approval.

**CSR280AB** 2 Credits  
Customer Service Internship  
Customer service experience in business or industry. Eighty hours of designated work per credit. Maximum of eight credits allowed. Prerequisites: Departmental Approval.

**CSR280AC** 3 Credits  
Customer Service Internship  
Customer service experience in business or industry. Eighty hours of designated work per credit. Maximum of eight credits allowed. Prerequisites: Departmental Approval.

## ■ Dental Assisting (Clinical)

**CDA101** 1 Credit  
Orientation to Clinical Dental Assisting  
Overview of dentistry. Roles of the clinical dental assistant and team members covered. Education and licensure requirements, ethics and professional organizations also covered. Arizona Board of Dental Examiners (BODEX) and dental assistant regulations reviewed. History of dentistry and services provided by general and specialty practices also included. Prerequisites: Admission to the Dental Assisting Program.

**CDA102** 1 Credit  
Introduction to Dental Office Management  
Introduction to the operation and procedures of dental office management. Interpersonal communication techniques and psychological factors related to patient management emphasized. Systems for management of patient records, accounts receivable, insurance and fee collection, recall, supply inventory, and ordering covered.

Overview of computers used in a dental office included. Prerequisites: CDA101 or permission of instructor.

**CDA110** 2 Credits  
Infection Control and Hazard Communication  
Introduction to infection control and hazard communication for the dental practice. Infection control mandates according to the Occupational Safety and Health Administration (OSHA), the American Dental Association (ADA), and the Center for Disease Control and Prevention (CDC) covered. Procedures related to infection control emphasized. Prerequisites: CDA102 or permission of instructor.

**CDA115** 3 Credits  
Dental Anatomy and Pathology  
Overview of human anatomy and pathology for the dental assistant. Structural organization and systems of the body covered. Identification of anatomy and landmarks of the head, neck, and orofacial structures emphasized. Dental pathology also covered. Prerequisites: CDA110 or permission of instructor.

**CDA120** 1 Credit  
Clinical Patient Management  
The role of the dental assistant in clinical patient management. Medical-dental health history, and obtaining and recording vital signs. Drug references, methods of administration, anesthetic, and patient prescriptions covered. Management of dental emergencies and the medically compromised also included. Prerequisites: CDA115 or permission of instructor.

**CDA125** 3 Credits  
Dental Materials  
Identification and description of dental materials covered. Manipulation of restorative, impression, laboratory, and adjunct dental materials emphasized. Prerequisites: CDA120 or permission of instructor.

**CDA220** 2 Credits  
Clinical Dental Assisting I  
Fundamental skills for clinical dental assisting. General dentistry office design, operation and maintenance of dental equipment, 4-handed delivery system, and dental instruments covered. New patient examination, prophylaxis, amalgam restoration, composite restoration, composite veneer, and tooth-whitening procedures. Placement of matrix band and wedge, and rubber dam. Role of dental assistant for patient procedures emphasized. Prerequisites: CDA125 or permission of instructor.

**CDA230** 2 Credits  
Clinical Dental Assisting II  
Specialty and expanded skills for clinical dental assisting. Fixed prosthetics preparation and cementation, removable prosthetics, endodontics, periodontics, orthodontics, oral and maxillofacial surgeries. Placement of sealants, retraction cord, periodontal dressing, and provisional restorations. Removal of excess permanent cement. Prerequisites: CDA220 or permission of instructor.

Dental Assisting (Clinical) • Dental Hygiene

**CDA240** 3 Credits  
**Dental Radiographic Imaging**  
 Dental radiographic imaging. Diagnostic value of radiographs, image geometry, exposure techniques, processing of intra-oral and extra-oral radiographs covered. X-ray production, exposure factors, and image characteristics emphasized. Identification of image defects and corrective measures. Biological effects of x-radiation, radiation safety, digitized radiography, infection control procedures, and legal implications also covered. Prerequisites: CDA230 or permission of instructor.

**CDA280** 1 Credit  
**Clinical Dental Assistant Practicum**  
 Clinical dental assisting skills performance in a clinical laboratory. Safe work practices, infection control, dental radiography, chairside assisting, expanded dental assisting skills, patient management, dental materials manipulation, and dental laboratory skills emphasized. Operation and maintenance of dental equipment also covered. Prerequisites: CDA240 or permission of instructor.

**CDA290** 4 Credits  
**Internship for Clinical Dental Assistants**  
 Perform clinical dental assisting skills within a dental practice setting. Practice safety and infection control, clinical and expanded dental assisting, patient management, laboratory skills, business assisting, equipment operation, and maintenance. Operate within practice standards, and record and evaluate internship experience. Two hundred forty (240) hours of designated work required. Prerequisites: CDA280 or permission of instructor.



■ **Dental Hygiene**

**DHE110** 3 Credits  
**Pharmacology**  
 Study of the principles of pharmacology and drugs affecting dental treatment. Topics include drug interactions, oral manifestations, drugs used in dentistry and complementary medicine. Prerequisites: Admission to the Dental Hygiene Program or permission of instructor.

**DHE112** 3 Credits  
**Oral Pathology**  
 Identification, classification, etiology and treatment of lesions of the oral mucosa and atypical conditions of the oral cavity and supporting structures. Understanding of abnormal conditions to recognize the parameters of comprehensive dental hygiene care. Multi-media resources are used extensively for identification of oral lesions. Prerequisites: Admission to the Dental Hygiene Program or permission of instructor.

**DHE114** 2 Credits  
**Emergency Medicine**  
 Introduction to recording and interpreting medical history. Additional topics include: recognition of signs and symptoms of medical emergencies, procedures and techniques introduced to prevent emergencies and management of emergency situations in the dental environment. Prerequisites: Admission to the Dental Hygiene or Dental Assisting Programs.

**DHE119** 3 Credits  
**Head and Neck Anatomy**  
 Study of the structures of the head and neck relevant to dental hygiene. Topics include: osteology, musculature, blood supply, glandular tissue, cranial nerves and routes of infection. Course activities include use of skulls, models and multi-media resources. Prerequisites: Admission to the Dental Hygiene Program or permission of instructor.

**DHE120** 6 Credits  
**Pre-Clinical Dental Hygiene**  
 Introduction to the dental hygiene profession and the process of care. Infection control, patient assessment, preventive treatment and dental hygiene instrumentation are practiced. Students are introduced to self assessment skills and quality improvement. Prerequisites: Admission to the Dental Hygiene Program or permission of instructor.

**DHE122** 2 Credits  
**Dental Anatomy, Embryology and Histology**  
 Includes the histology and embryology of oral tissues; developmental disturbances of the face, oral cavity, and related structures; tooth composition and morphology; eruption patterns and occlusal evaluation. Use of skulls, models and multi-media resources also covered. Prerequisites: Admission to the Dental Assisting or Dental Hygiene Programs.

**DHE124** 2 Credits  
**Dental Radiography**  
 Physics of radiography, theory of radiation production, exposure techniques, radiation protection, film processing, mounting, and interpretation of radiographs. Course activities include multi-media resources. Prerequisites: Admission to the Dental Assisting or Dental Hygiene Programs or permission of instructor.

**DHE125** 1 Credit  
**Dental Radiography Lab**  
 Radiation safety and infection control procedures for operator and patient. Film placement, exposure, development, mounting and evaluation of dental radiographs. Operation and maintenance of X-ray and processing equipment. Interpretation of radiographic findings. Prerequisites or Corequisites: DAE/DHE124 and admission to the Dental Hygiene Program or permission of instructor.

**DHE127** 3 Credits  
**Prevention of Dental Disease**  
 Introduction of preventive concepts to help clients achieve control of oral diseases and injury. Topics include etiologic

Dental Hygiene

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| agents, caries process, nutrition, fluorides, sealants and patient/client motivation techniques. Multi-media resources used extensively. Prerequisites: Admission to the Dental Hygiene Program or permission of instructor.  | DHE219   | 2 Credits |
| DHE132  | Practice Management  |           |
| Dental Hygiene Theory I   | Integration of practice management concepts and comprehensive quality patient care in preparation for future collaborative practice between dental hygienists and dentists. Students are challenged with practice situations including productivity, conflict management, ethical and legal issues. Prerequisites: Admission to the Dental Hygiene Program or permission of instructor.  |           |
| Continued study of the dental hygiene process of care with emphasis on assessment, planning and implementation. Topics include instrumentation, adjunct dental hygiene services, instrument sharpening, computer technology, dental specialties and professional accountability. Prerequisites: DHE120 and admission to the Dental Hygiene Program or permission of instructor. Corequisites: DHE133.                   | DHE225   | 3 Credits |
| DHE133  | Periodontics   |           |
| Dental Hygiene Clinic I   | Principles of periodontology; etiology, microbiology, pathogenesis, classification and characteristics of healthy and diseased periodontal tissues. Surgical treatment of periodontal disease and the effects of dental hygiene therapy, surgical techniques and maintenance therapy. Evaluation of the scientific literature and multi-media resources are used extensively. Prerequisites: Admission to the Dental Hygiene Program or permission of instructor.  |           |
| Application of the dental hygiene process of care with emphasis on assessment, planning, and implementation. Introduction to evaluation of dental hygiene therapy. Prerequisites: DHE120 and admission to the Dental Hygiene Program. Corequisites: DHE132 and current CPR card.  | DHE227   | 2 Credits |
| DHE203  | Dental Anesthesia  |           |
| Dental Materials  | A comprehensive lecture and laboratory course providing concepts and techniques for the administration of local anesthetic agents and nitrous oxide. Experience gained in medical history review, record keeping, patient management and hands on experience administering local anesthetics and nitrous oxide in a clinical setting. Prerequisites: DHE119 and current CPR certification.   |           |
| Composition, properties and criteria for use of dental materials. Principles of mixing techniques of restorative, preventive, and laboratory dental materials. Prerequisites: Admission to the Dental Assisting or Dental Hygiene Programs or permission of instructor.   | DHE229   | 3 Credits |
| DHE204  | Community Oral Health  |           |
| Dental Materials Lab  | An examination of methods used to assess the oral health status of the community and to plan, implement, finance and evaluate dental public health programs. Focus on community-based health promotion and disease prevention measures to improve the oral health of the population, as well as the characteristics of dental care delivery systems and the social, political, psychological and economic factors affecting utilization within the system. Prerequisites: Admission to the Dental Hygiene Program or permission of instructor. |           |
| Manipulate permanent and temporary restorative materials, impression material, dental waxes, cements, periodontal dressings, bases and liners. Fabricate mouth protectors, study models, and custom impression trays. Laboratory proficiency in margination of permanent restorative materials. Prerequisites: DAE/DHE203 and Admission to the Dental Assisting or Dental Hygiene Programs or permission of instructor. | DHE232   | 2 Credits |
| DHE212  | Dental Hygiene Theory III  |           |
| Dental Hygiene Theory II  | Continued study of the dental hygiene process of care with emphasis on the patient with special needs and advanced instrumentation. Students participate in field observations and present case documentations. Prerequisites: (DHE212 and DHE213), and admission to the Dental Hygiene Program. Corequisites: DHE233.   |           |
| Continued study of the dental hygiene process of care with emphasis on comprehensive care planning, case presentation, and clinical decision making. Introduction to advanced periodontal instrumentation. Prerequisites: DHE132 and DHE133 and admission to the Dental Hygiene Program. Corequisites: DHE213.  | DHE233   | 5 Credits |
| DHE213  | Dental Hygiene Clinic III  |           |
| Dental Hygiene Clinic II  | Continued application of the dental hygiene process of care with emphasis on diverse populations. Students prepare for clinical practice using self assessment, evaluation and critical thinking skills. Prerequisites: (DHE212 and DHE213), and admission to the Dental Hygiene Program. Corequisites: DHE232.  |           |
| Continued application of the dental hygiene process of care with emphasis on comprehensive care planning, case presentation, clinical decision making, advanced instrumentation and improved time utilization. Prerequisites: DHE132 and DHE133 and admission to the Dental Hygiene Program. Corequisites: DHE212.  |  |           |

## ■ Drafting Technology

**DFT126** 3 Credits  
**Building Trades Blueprint Reading**  
 Analysis and interpretation of technical drawings common to the construction industry and building trades. Prerequisites: None.

## ■ Economics

**ECN111** 3 Credits  
**Macroeconomic Principles**  
 A descriptive analysis of the structure and functioning of the American economy. Emphasis on basic economic institutions and factors that determine national income and employment levels. Consideration given to the macroeconomic topics of national income, unemployment, inflation and monetary and fiscal policies. Prerequisites: None.

**ECN112** 3 Credits  
**Microeconomic Principles**  
 Microeconomic analysis including the theory of consumer choice, price determination, resource allocation and income distribution. Includes non-competitive market structures such as monopoly and oligopoly; and the effects of government regulation. Selected issues examined. Prerequisites: None.



## ■ Education

*For information regarding which course(s) can be applied to a state certification or endorsement, see pages 46-47.*

**EDU221** 3 Credits  
**Introduction to Education**  
 Overview of education and educational institutions in our society, including current issues, responsibilities, and qualifications of educators. Opportunity for students to assess their interest in this area. Includes minimum of 30 hours of field experience in elementary or secondary classroom environment. Prerequisites: None.

**EDU222** 3 Credits  
**Introduction to the Exceptional Learner**  
 Overview of the exceptional learner, one who differs from the average or normal, with emphasis on factors relating to current practices, identification, characteristics, and educational adaptations. Issues related to mildly disabled, severely disabled, emotionally and behaviorally disordered, mentally retarded, and gifted students. Prerequisites: None.

**EDU223AA** 3 Credits  
**Emotional Disabilities in the Classroom**  
 Investigation into the characteristics of and teaching strategies for students with emotional disabilities. Emphasis on Arizona State Board of Education Professional Teaching Standards and Arizona Teacher Proficiency

Assessment Objectives for Students with Emotional Disabilities. Prerequisites: EDU222. Course Note: Upon completion of this course, register for EDU223AE to receive state Special Education Certification.

**EDU223AB** 3 Credits  
**Learning Disabilities in the Classroom**  
 Investigation into the characteristics of and teaching strategies for students with learning disabilities. Emphasis on Arizona State Board of Education Professional Teaching Standards and Arizona Teacher Proficiency Assessment Objectives for Students with Learning Disabilities. Prerequisites: EDU222. Course Note: Upon completion of this course, register for EDU223AE to receive state Special Education Certification.

**EDU223AC** 3 Credits  
**Mild and Moderate Mental Retardation in the Classroom**  
 Investigation into the characteristics of and teaching strategies for students with mild and moderate mental retardation. Emphasis on Arizona State Board of Education Professional Teaching Standards and Arizona Teacher Proficiency Assessment Objectives for Students with Mental Retardation. Prerequisites: EDU222. Course Note: Upon completion of this course, register for EDU223AE to receive state Special Education Certification.

**EDU223AD** 3 Credits  
**Physical and Other Health Impairments in the Classroom**  
 Investigation into the characteristics of and teaching strategies for students with physical and other health impairments. Emphasis on Arizona State Board of Education Professional Teaching Standards and Arizona Teacher Proficiency Assessment Objectives for Students with Physical and Other Health Impairments. Prerequisites: EDU222. Course Note: Upon completion of this course, register for EDU223AE to receive state Special Education Certification.

**EDU223AE** 1 Credit  
**Methods in Special Education**  
 Field-based experiences relating to the understanding of and teaching strategies for exceptional learners with mild/moderate mental retardation, learning disabilities, emotional disabilities, physical disabilities and/or other health related impairments. Provides opportunities for students to apply learning in the classroom. Prerequisites: EDU223AA, or EDU223AB, or EDU223AC, or EDU223AD. Course Note: Course may be repeated for a total of four (4) times.

**EDU223AF** 3 Credits  
**Assessment in Special Education**  
 Investigation into the concepts, laws, issues, and procedures that relate to the formal and informal assessment of students with disabilities. Includes field-based experience in assessing students with mild/moderate mental retardation, learning disabilities, or emotional disabilities in the classroom both individually and as a member of an assessment team. Prerequisites: EDU223AA, or EDU223AB, or EDU223AC, or EDU223AD.



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| <p><b>EDU224</b> 3 Credits<br/> <b>Teaching in the Middle School</b><br/>                     Overview of teaching in the middle school grades five through nine. Topics include characteristics of young adolescents, responsibilities of teaching teams, middle school curriculum, design and interdisciplinary versus integrated units of study. Classroom management techniques and effective teaching strategies also covered. Prerequisites: Valid Arizona Elementary or Secondary Teaching Certificate.</p> | <p><b>EDU250</b> 3 Credits<br/> <b>Overview of the Community Colleges</b><br/>                     The history, functions, organization and current issues in the community/junior college with emphasis on the Arizona community colleges. Meets Arizona community college course requirement for certification. Prerequisites: None.</p>  |
| <p><b>EDU225</b> 3 Credits<br/> <b>Foundations of ESL and Bilingual Education</b><br/>                     Rationale for and current educational and legal issues in bilingual education. Comparison and evaluation of various types of bilingual education programs. Prerequisites: None.</p>   | <p><b>EDU260</b> 2 Credits<br/> <b>Technology in Education Overview</b><br/>                     Exploration of the use of technology in education. Including history of technology in education, teacher and student technology standards, landmark studies related to using technology in education and utilization of technology in the classroom. Local, state, and national standards for education covered, as well as identification of professional development opportunities. Prerequisites: None.</p> |
| <p><b>EDU230</b> 3 Credits<br/> <b>Cultural Diversity in Education</b><br/>                     Examination of the relationship of cultural values to the formation of the child's self-concept and learning styles. Examination of the role of prejudice, stereotyping and cultural incompatibilities in education. Emphasis on preparing future teachers to offer an equal educational opportunity to children of all cultural groups. Prerequisites: None.</p>  | <p><b>EDU261AA</b> 1 Credit<br/> <b>Technology as a Resource for Language Arts Educators: Grades K-3</b><br/>                     Overview of integration of technology in the teaching of language arts in grades kindergarten through third. Local, state, and national standards for language arts covered. Identification of technological resources and their use emphasized. Prerequisites: EDU260.</p>   |
| <p><b>EDU240</b> 3 Credits<br/> <b>Methods for Teaching the ESL Student</b><br/>                     Methods of developing lesson plans in language arts, science, math, social studies, and culture for the ESL student. Emphasis on components of curriculum content, teaching techniques, development and evaluation of teaching materials. Prerequisites: EDU225 or permission of instructor.</p>  | <p><b>EDU261AB</b> 1 Credit<br/> <b>Technology as a Resource for Language Arts Educators: Grades 4-6</b><br/>                     Overview of integration of technology in the teaching of language arts in grades four through six. Local, state, and national standards for language arts covered. Identification of technological resources and their use emphasized. Prerequisites: EDU260.</p>   |
| <p><b>EDU243</b> 3 Credits<br/> <b>Reading and Writing in an ESL/Bilingual Setting</b><br/>                     Introduction to English as a Second Language (ESL) terminology, second language acquisition theories and reading terminology. Teaching techniques, strategies, and learning activities as well as reading comprehension skills and writing skills covered. Prerequisites: EDU225.</p>  | <p><b>EDU262AA</b> 1 Credit<br/> <b>Technology as a Resource for Reading Educators: Grades K-3</b><br/>                     Overview of integration of technology in the teaching of reading in grades kindergarten through third. Local, state, and national standards for reading covered. Identification of technological resources and their use emphasized. Prerequisites: EDU260.</p>   |
| <p><b>EDU246</b> 3 Credits<br/> <b>Assessment of Linguistically Diverse Learners</b><br/>                     Assessment of Limited English Proficient (LEP) students and programs. Covers identification, exiting, and ongoing assessment of student learning. Legal issues and historical perspectives also covered. Linking assessment to instruction and the review of methods and techniques employed for language and academic assessment included. Standards emphasized. Prerequisites: EDU225.</p>         | <p><b>EDU262AB</b> 1 Credit<br/> <b>Technology as a Resource for Reading Educators: Grades 4-6</b><br/>                     Overview of integration of technology in the teaching of reading in grades four through six. Local, state, and national standards for reading covered. Identification of technological resources and their use emphasized. Prerequisites: EDU260.</p>   |
| <p><b>EDU247</b> 3 Credits<br/> <b>Practicum for ESL/Bilingual Teachers</b><br/>                     Provides an opportunity to receive guided practical, on-site experience working with Limited English Proficient (LEP) students. Requires observations of LEP students in a variety of settings, evaluation of teaching techniques, and critical review of academic standards as they relate to ESL/Bilingual learners. Prerequisites: (EDU225 and EDU230 and ENG213), and (EDU240 or EDU241).</p>             | <p><b>EDU263AA</b> 1 Credit<br/> <b>Technology as a Resource for Social Studies Educators: Grades K-3</b><br/>                     Overview of integration of technology in the teaching of social studies in grades kindergarten through three. Local, state, and national standards for social studies covered. Identification of technological resources and their use emphasized. Prerequisites: EDU260.</p>  |

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| <p><b>EDU263AB</b><br/>Technology as a Resource for<br/>Social Studies Educators: Grades 4-6<br/>Overview of integration of technology in the teaching of social studies in grades four through six. Local, state, and national standards for social studies covered. Identification of technological resources and their use emphasized. Prerequisites: EDU260.</p>  | <p>1 Credit</p> | <p>researched via the Internet and used in education. Focus on Algebra I and II. Prerequisites: EDU260.</p>  |
| <p><b>EDU263AC</b><br/>Technology as a Resource for<br/>Social Studies Educators: Middle/High School<br/>Overview of integration of technology in teaching social studies in the middle and high school levels. Local, state, and national standards for social studies covered. Identification of technological resources and their use emphasized. Prerequisites: EDU260.</p>   | <p>1 Credit</p> | <p><b>EDU264HC</b><br/>Technology as a Resource for<br/>Mathematics Educators: Trigonometry and Calculus<br/>Introduction to integrating technology into the mathematics classroom. Local, state, and national standards for mathematics covered. Overview of various graphing calculator activities used to substantiate mathematical concepts. Provides an understanding of the process used to develop applications using graphing calculator technology. Emphasis on how various kinds of technology are researched via the Internet and used in education. Focus on trigonometry and calculus. Prerequisites: EDU260.</p> |
| <p><b>EDU264AA</b><br/>Technology as a Resource for<br/>Mathematics Educators: Grades K-3<br/>Overview of integration of technology in the teaching of mathematics in grades kindergarten through three. Local, state, and national standards for mathematics covered. Identification of technological resources and their use emphasized. Prerequisites: EDU260.</p>   | <p>1 Credit</p> | <p><b>EDU265AA</b><br/>Technology as a Resource for<br/>Science Educators: Grades K-3<br/>An examination of Internet and software resources relevant to the kindergarten through third grade science instruction. Local, state, and national standards for science covered. Emphasis on analyzing available resources and practical classroom applications. Prerequisites: EDU260.</p>   |
| <p><b>EDU264AB</b><br/>Technology as a Resource for<br/>Mathematics Educators: Grades 4-6<br/>Overview of integration of technology in the teaching of mathematics in grades four through six. Local, state, and national standards for mathematics covered. Creation, formatting and modification of spreadsheets included. Identification of technological resources and their use emphasized. Prerequisites: EDU260.</p>   | <p>1 Credit</p> | <p><b>EDU265AB</b><br/>Technology as a Resource for<br/>Science Educators: Grades 4-6<br/>An examination of Internet and software resources relevant to the fourth through sixth grade science instruction. Local, state, and national standards for science covered. Emphasis on analyzing available resources and practical classroom applications. Prerequisites: EDU260.</p>   |
| <p><b>EDU264HA</b><br/>Technology as a Resource for<br/>Mathematics Educators: Basic/Pre-Algebra<br/>Introduction to integrating technology into the mathematics classroom. Local, state, and national standards for mathematics covered. Overview of various graphing calculator activities used to substantiate mathematical concepts. Provides a basic understanding of the process used to develop applications using graphing calculator technology. Emphasis on how various kinds of technology are researched via the Internet and used in education. Focus on basic mathematics and pre-algebra. Prerequisites: EDU260.</p> | <p>1 Credit</p> | <p><b>EDU265AC</b><br/>Technology as a Resource for<br/>Science Educators: Grades 7-12<br/>An examination of Internet and software resources relevant to the seventh through twelfth grade science instruction. Local, state, and national standards for science covered. Emphasis on analyzing available resources and practical classroom applications. Prerequisites: EDU260.</p>   |
| <p><b>EDU264HB</b><br/>Technology as a Resource for<br/>Mathematics Educators: Algebra I &amp; II<br/>Introduction to integrating technology into the mathematics classroom. Local, state, and national standards for mathematics covered. Overview of various graphing calculator activities used to substantiate mathematical concepts. Provides an understanding of the process used to develop applications using graphing calculator technology. Emphasis on how various kinds of technology are</p>   | <p>1 Credit</p> | <p><b>EDU266HA</b><br/>Technology as a Resource for<br/>English Educators: High School<br/>Overview of integration of technology in the teaching of English in high school. Local, state, and national standards for social studies covered. Identification of technological resources and their use emphasized. Prerequisites: EDU260.</p>  |
|   |                 | <p><b>EDU269</b><br/>Classroom Planning With Technology<br/>Examination of the necessary skills elementary school students need to meet national technology standards. Lesson plan development emphasized. Prerequisites: EDU260.</p>  |
|   |                 | <p><b>EDU270</b><br/>Learning and the Brain<br/>Teaching and learning issues within a cognitive processes context. Covers emotion, memory, and recall as well as</p>   |

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| <p>early brain development and its relationship to learning. Prerequisites: None.</p> <p><b>EDU270AA</b> 3 Credits<br/>Elementary Reading and Decoding<br/>Focus on the theories, methods and models of the teaching and learning processes of reading in the elementary grades. Prerequisites: None.</p> <p><b>EDU270AB</b> 3 Credits<br/>Secondary Reading and Decoding<br/>Focus on the theories, methods and models of teaching literacy and decoding in the content areas of secondary grades. Prerequisites: None.</p> <p><b>EDU272</b> 3 Credits<br/>Educational Psychology<br/>Focus on the study and application of psychological principles, theories, and methodologies related to teaching and learning. Emphasis on developmental theories, learning theories and motivational theories. Current trends and Arizona State Board of Education Professional Teaching Standards also covered. Prerequisites: PSY101.</p> <p><b>EDU274</b> 3 Credits<br/>Understanding Adolescent Behavior in the Classroom<br/>Focuses on understanding adolescents' development including psychosocial, emotional, cognitive and physical. Covers impact of early experiences, relationships, and learning abilities. Establishment of a learning environment supportive of the adolescent emphasized. Prerequisites: None.</p> <p><b>EDU275</b> 3 Credits<br/>Diagnosis and Remediation of Reading for K-12<br/>Fundamentals of diagnosis and remediation of reading problems for K-12. Administration, analysis and interpretation of informal diagnostic procedures and use of assessment results in planning a program of remediation. The Diagnostic Teaching of Reading emphasized. Prerequisites: EDU270AA or EDU270AB.</p> <p><b>EDU276</b> 3 Credits<br/>Classroom Management<br/>Classroom management techniques. Classroom discipline models, student behavior and misbehavior, group dynamics, student self-motivation and learning styles covered. Arizona State Board of Education Professional Teaching Standards emphasized. Prerequisites: None.</p> <p><b>EDU279</b> 3 Credits<br/>Reading Practicum K-12<br/>Focus on the practical application of current philosophical theories, methods, and models of assessment and instruction for remediation of reading. Prerequisites: EDU270AA or EDU270AB.</p> <p><b>EDU285</b> 2 Credits<br/>Education Seminar<br/>Special topics in education with an emphasis on current issues not covered in education courses. May be repeated for a total of six (6) credit hours. Prerequisites: Departmental Approval.</p> | <p><b>EDU286</b> 3 Credits<br/>Middle Grade Practicum<br/>Practical experience for teacher on-site at a middle grade school. Includes observing and working in a classroom, with teachers and with special needs students. Prerequisites: EDU224 and EDU274.</p> <p><b>EDU289</b> 3 Credits<br/>Secondary Methods and Curriculum Development<br/>Overview and practical application of teaching methodology and curriculum development for secondary education teachers. Teaching strategies and learning styles covered. Curriculum design, lesson objectives, time management skills, teaching resources and student assessments also included. Arizona State Board of Education Professional Teaching Standards emphasized. Prerequisites: EDU272.</p> <p><b>EDU290</b> 3 Credits<br/>Science Methods and Curriculum Development<br/>Overview and practical application of teaching elementary science. Covers teaching strategies, learning environments, teaching resources, and use of technology. Emphasis on Arizona State Board of Education Professional Teaching Standards. Prerequisites: EDU270 and EDU272.</p> <p><b>EDU291</b> 3 Credits<br/>Children's Literature<br/>Review of folk and modern literature from a variety of world cultures, including application of literary criteria to folk and modern literature for children. Prerequisites: None.</p> <p><b>EDU293</b> 3 Credits<br/>Mathematics Methods and Curriculum Development<br/>Overview and practical application of teaching mathematics in K-8 grades. Development of lesson plans and assessment instruments emphasized. Current trends, Arizona State Board of Education Professional Teaching Standards and National Council of Teachers of Mathematics Standards also covered. Prerequisites: EDU270, EDU272, MAT122, and MAT156.</p> <p><b>EDU295</b> 3 Credits<br/>Social Studies Methods and Curriculum Development<br/>Overview of teaching elementary social studies. Topics include lesson plans preparation, teaching strategies, assessments, classroom management techniques and teaching resources. Emphasis on Arizona State Board of Education Professional Teaching Standards. Prerequisites: EDU270 and EDU272.</p> <p><b>EDU299</b> 8 Credits<br/>Student Teaching Lab<br/>Supervised student teacher practicum. Emphasis on the provision of instruction to learners. Covers lesson plan development, classroom procedures, classroom management, and educator professionalism. Includes learner preparation, learner engagement, and learner outcome awareness. Prerequisites: Departmental approval.</p> |
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## ■ Electronics Technology

**ELT101** 3 Credits  
**Mathematics for Electronics I**  
 Basic principles of Algebra with applications to the analysis of electronic circuits. Emphasis on the use of the calculator for conversions and DC circuit problems. Prerequisites: None.

## ■ Emergency Medical Technology

**EMT104** 8 Credits  
**Basic Emergency Medical Technology**  
 Techniques of emergency medical care in accordance with national and state curriculum. Study of the human body, patient assessment, treatment of medically or traumatically compromised patients, special hazards, and medical operations. IV monitoring, Sudden Infant Death Syndrome (SIDS), patient-assisted medication administration, automated external defibrillators, and blood-glucose monitoring. Includes participation in two eight-hour clinical rotations through a local emergency department scheduled during the semester outside normal class hours. Requires personal pocket mask, stethoscope, pen light, and trauma scissors. Prerequisites: Must be at least 18 years of age prior to applying to the BLS Training Program per Arizona Revised Statute, and must have a current Cardio Pulmonary Resuscitation certification from the American Heart Association, American Red Cross, or other equivalent organization. Minimum 9th grade level reading proficiency on the Nelson-Denney Examination or equivalent. Proof of: TB testing or chest x-ray with a negative result within 6 month prior to application; Immunity to rubella (German measles) and rubeola as specified in ARS 36-2202 and ARS 2204.

**EMT200** 2 Credits  
**Refresher Course for Certified Emergency Medical Technicians**  
 Designed to meet National and Arizona Department of Health Services (A-DHS) recertification for EMTs. Enhances the knowledge base of the Emergency Medical Technician (EMT) and reinforces basic skills competencies. Prerequisites: Current basic EMT certification or permission of department.

## ■ English

**ENG071** 3 Credits  
**Fundamentals of Writing**  
 Emphasis on the fundamentals of sentence, paragraph, and multi-paragraph structure. Prerequisites: Appropriate English placement score, or ENG056, or ENG061, or permission of department chair.

**ENG101** 3 Credits  
**First-Year Composition**  
 Standard English writing skills. Emphasis on expository composition. Prerequisites: Appropriate English placement test score or a grade of "C" or better in ENG071.

**ENG102** 3 Credits  
**First-Year Composition**  
 Continued development of standard English writing skills. Introduction to research, note taking, organization, and documentation in the preparation and writing of a research paper. Prerequisites: ENG101 with a grade of "C" or better.

**ENG107** 3 Credits  
**First-Year Composition for ESL**  
 Equivalent of ENG101 for students of English as a Second Language (ESL). Standard American English writing skills and emphasis on expository composition. Prerequisites: Appropriate ESL or ASSET placement test score, or a grade of "C" or better in ESL040, or (ESL040AA, ESL040AB, and ESL040AC), or ESL042, or ENG071 or ESL077.

**ENG108** 3 Credits  
**First-Year Composition for ESL**  
 Equivalent of ENG102 for students of English as a Second Language (ESL). Continued development of standard English writing skills. Introduction to research, note taking, organization and documentation in the preparation and writing of a research paper. Not open to students who have completed ENG101. Prerequisites: Grade of "C" or better in ENG107.

**ENG111** 3 Credits  
**Technical Writing**  
 Analysis, planning, organization, research, and writing of technical reports and oral presentations for specific job-related audiences. Preparation of recommendation and feasibility reports, proposals, and applications of graphics in documents and oral presentations. Prerequisites: ENG101 with a grade of "C" or better, or permission of instructor.

**ENG210** 3 Credits  
**Creative Writing**  
 Skills and techniques used in the production of marketable materials for contemporary publications that buy prose fiction, poetry, and expository articles. May be repeated for a total of six (6) credit hours with departmental approval. Prerequisites: ENG102 with a grade of "C" or better, or permission of department.

**ENG213** 3 Credits  
**Introduction to the Study of Language**  
 Study of language as code; phonetics, phonology, morphology, syntax, semantics; language acquisition; historical and socio-linguistics. Prerequisites: ENG102, or ENG111 with a grade of "C", or better, or permission of instructor.

**ENG235** 3 Credits  
**Magazine Article Writing**  
 Basic skills and techniques used by professional writers for publication in magazines. Includes analyzing markets, identifying article slant, writing query letters, research techniques, editing, and submission procedures. Emphasis on nonfiction. Prerequisites: None.

## ■ English Humanities

**ENH110** 3 Credits  
**Introduction to Literature**  
 Introduces students to literature through various forms of literary expression; e.g., poetry, drama, essay, biography, autobiography, short story, and novel. Prerequisites: None.

**ENH214** 3 Credits  
**Poetry Study**  
 Involves reading, discussing, and analyzing poetry of various forms and from selected periods. Prerequisites: None.

**ENH221** 3 Credits  
**Survey of English Literature Before 1800**  
 Emphasizes the social and political backgrounds as well as the form and content of English literature from Anglo-Saxon times to the end of the eighteenth century. Prerequisites: None.

**ENH222** 3 Credits  
**Survey of English Literature After 1800**  
 Emphasizes the social and political backgrounds as well as the form and content of English literature in the nineteenth and twentieth centuries. Prerequisites: None.

**ENH241** 3 Credits  
**American Literature Before 1860**  
 Includes literature written prior to 1860 in the United States. Prerequisites: None.

**ENH242** 3 Credits  
**American Literature After 1860**  
 Includes literature written after 1860 in the United States. Prerequisites: None.

**ENH251** 3 Credits  
**Mythology**  
 Deals with the myths and legends of civilizations with the greatest influence upon the development of the literature and culture of the English speaking people, and compares those myths with myths from other cultures. Prerequisites: None.

**ENH275** 3 Credits  
**Modern Fiction**  
 Includes novels and short stories of modern writers which reflect significant themes of our time. Prerequisites: None.

**ENH291** 3 Credits  
**Children's Literature**  
 Review of folk and modern literature from a variety of world cultures, including application of literary criteria to folk and modern literature for children Prerequisites: None.



## ■ Fire Science

**FSC102** 11 Credits  
**Fire Department Operations**

Introductory fire science course primarily designed for the new fire department recruit. Includes firefighting skills, equipment, and administrative policies, fire department operations, per-

sonnel policies, and International Fire Service Accreditation Congress Practical Skills Testing. Prerequisites or Corequisites: EMT104 and permission of instructor.

**FSC105** 3 Credits

### Hazardous Materials/First Responder

Basic methods of recognition and identification based upon the chemical and physical properties of hazardous materials; basic safety procedures when utilizing specific types of protective clothing and equipment; basic tactical information relating to scene management. Prerequisites: None.

**FSC108** 3 Credits

### Fundamentals of Fire Prevention

Fundamentals of fire prevention. Includes techniques, procedures, regulations, and enforcement. Also includes discussion of hazards in ordinary and special occupancies. Field trips and lectures from industry also included. Prerequisites: None.

**FSC113** 3 Credits

### Introduction to Fire Suppression

Characteristics and behavior of fire, fire hazard properties of ordinary materials, extinguishing agents, fire suppression organization and equipment, basic fire fighting tactics, and public relations as affected by fire suppression. Prerequisites: None.

**FSC117** 3 Credits

### Fire Apparatus

Principles of care, maintenance and operation of fire apparatus and pumps. Includes pump construction and accessories, pumping techniques, power development, and transmission. Driving, troubleshooting and producing effective fire streams. Prerequisites: None.

**FSC118** 3 Credits

### Fire Hydraulics

Review of basic mathematics. Hydraulic laws and formulas as applied to the fire service. Application of formulas and mental calculations to hydraulic problems, water supply variables, and discharge requirements for pumers. Prerequisites: None.

**FSC134** 3 Credits**Fitness and Conditioning/Firefighters**

Overview of all aspects of fitness for current and prospective firefighters. Includes mental aspects of performance for optimal achievement on fire department agility tests and firefighting tasks; physical fitness and workout techniques as they apply to performing specific firefighting tasks; individual conditioning strategies, nutritional guidelines, and basic exercise principles. Lifelong fitness and conditioning. Prerequisites: None.

**FSC204** 3 Credits**Firefighting Tactics and Strategy**

Methods of coordinating personnel, equipment, and apparatus on the fireground. Practical methods of controlling and extinguishing structural and other types of fires. Includes simulation exercises. Prerequisites: FSC113 or permission of instructor or equivalent.

**FSC208** 3 Credits**Firefighter Safety and Building Construction**

Actions necessary to provide for the safety of firefighters operating on the fireground. Effects that fire and heat may have on various types of building construction resulting in the loss of structural integrity. Includes signs and symptoms of structural damage. Prerequisites: FSC113 or permission of instructor or equivalent.

**FSC209** 3 Credits**Fire Investigation**

Methods of determining point of fire origin, path of fire travel, and fire cause. Includes recognizing and preserving evidence; interviewing witnesses; arson laws and types of arson fires; and court testimony, reports, and records. Prerequisites: None.

**FSC238** 2 Credits**Vehicular Extrication and Patient Stabilization**

Participative course designed for Emergency Medical Technicians (EMTs) and other prehospital care providers. Enhances the knowledge base of the EMT and incorporates new knowledge and skills necessary to access, extricate, and care for victims of crash incidents. Provides exposure to scene management skills to include size-up, disentanglement, victim stabilization for single and multi-victim situations, hazardous materials incidents, integration of local emergency medical services (EMS) for patient assessment and management, and standard operating procedures to selected victim scenarios. Prerequisites: Basic EMT certification, current enrollment in an EMT-Basic program, nurse with emergency department experience, or law enforcement personnel, or permission of instructor.

**FSC290AA** 1 Credit**Arson Investigation**

Investigative techniques used in analyzing suspected arson scenes, motives, and collection of physical evidence. Prerequisites: None.

**Food and Nutrition****FON100** 3 Credits**Introductory Nutrition**

Basic nutrition concepts for health and fitness. Emphasizes current dietary recommendations for maximizing well-being and minimizing risk of chronic disease. Focuses on use of tables, food guides, and guidelines for making healthy food choices. Includes unique nutrition needs for selected stages of the lifecycle, methods for evaluating credibility of nutrition claims, principles of vegetarian nutrition, safe and economic use of supplements, principles of energy balance, basic elements of food safety, diet for exercise and sports, and personal dietary evaluation techniques. Not for pre-dietetics or selected other preprofessional majors. May not be taken for credit if credit has been earned in FON100AA and/or FON100AC. Prerequisites: None.

**FON102** 2 Credits**Menu Planning**

Principles and techniques of menu planning for food service operations where food is served in quantity; includes applications for health care institutions, commercial kitchens, school cafeterias, and industrial facilities. Prerequisites or Corequisites: MAT082 or a minimum score of 43 on the ASSET math numerical placement test.

**FON122** 3 Credits**Principles of Food and Beverage Service**

Qualities and skills necessary for successful food and beverage service. Includes room planning and setup, duties of service staff, types of service, customer relations, dining room etiquette, and cash management. Prerequisites: None.

**FON241** 3 Credits**Principles of Human Nutrition**

Scientific principles of human nutrition. Emphasis on health promotion and concepts for conveying accurate nutrition information in a professional setting. Addresses therapeutic nutrition principles for treatment of common health conditions. Includes exploration of food sources of nutrients, basic metabolism of nutrients in the human body, relationship between diet and other lifestyle factors, use of supplements, current recommendations for food selection throughout the life cycle, and use of nutrition tools for planning food intake or assessment of nutritional status. Prerequisites or Corequisites: One year high school chemistry with grade of "C" or better, or CHM130 and CHM130LL, or BIO100, or BIO156, or BIO181, or approval of instructor.

**French****FRE101** 4 Credits**Elementary French I**

Basic grammar, pronunciation and vocabulary of the French language. Includes the study of French culture, practice of listening, speaking, reading and writing skills. Prerequisites: None.

**FRE102** 4 Credits  
**Elementary French II**  
 Continued study of grammar and vocabulary of the French language along with the study of French culture. Emphasis on speaking, listening, reading and writing skills. Prerequisites: FRE101 or equivalent.

**FRE201** 4 Credits  
**Intermediate French I**  
 Review of essential grammar of the French language and study of French culture. Continued practice and development of reading, writing, and speaking skills. Prerequisites: FRE102 with a grade of "C" or better, two years of high school French with an average of "C" or better, or departmental approval.

**FRE202** 4 Credits  
**Intermediate French II**  
 Review of grammar, continued development of French language skills, and continued study of the French culture. Prerequisites: FRE201 with a grade of "C" or better or three years of high school French with an average of "C" or better.



## ■ General Business

**GBS110** 3 Credits  
**Human Relations in Business and Industry**

Exploration of fundamental theories and concepts of human relations in business and industry. Particular emphasis is placed on developing effective interpersonal relationships and leadership skills within an organization. Prerequisites: None.

**GBS112** 2 Credits  
**Credit Collections**  
 Interpreting account records. Managing and recording customer contact communications. Includes fact finding, problem solving, and dealing with customer defensiveness. Federal laws regarding specific collections and skip tracing. Prerequisites: None.

**GBS151** 3 Credits  
**Introduction to Business**  
 Characteristics and activities of current local, national, and international business. An overview of economics, marketing, management and finance. Prerequisites: None.

**GBS175** 3 Credits  
**Professional Development**  
 Examines personal qualities and professional skills needed to find a good job. Explores techniques required to build a successful career. Prerequisites: None.

**GBS205** 3 Credits  
**Legal, Ethical, and Regulatory Issues in Business**  
 Legal theories, ethical issues and regulatory climate affecting business policies and decisions. Prerequisites: None.

**GBS221** 3 Credits  
**Business Statistics**  
 Business applications of descriptive and inferential statistics, measurement of relationships, and statistical process management. Prerequisites: Grade of "C" or better in GBS220 or MAT172.

**GBS233** 3 Credits  
**Business Communication**  
 Internal and external business communications, including verbal and nonverbal techniques. Prerequisites: ENG101 or ENG107 with grade of "C" or better, or permission of department/division.

## ■ General Technology

**GTC127** 3 Credits  
**Beginning Woodworking**  
 Woodworking fundamentals and applications including basic construction, wood preparation, finishing techniques, and project material calculation. Emphasis on safe and proper use of hand tools and both stationary and portable power tools. Prerequisites: None.

**GTC128** 3 Credits  
**Intermediate Woodworking**  
 Development and application of basic woodworking skills; emphasis on planning a project; calculating and buying needed materials, jointery, wood preparation and finishing techniques. Prerequisites: GTC127 or previous woodworking experience.

**GTC130** 3 Credits  
**Furniture Construction I**  
 Process of building a piece of furniture including calculating and buying needed material, using tools properly and safely (hand tools and machines), jointery, wood preparation and basic finishing techniques. Prerequisites: None.

**GTC131** 3 Credits  
**Furniture Construction II**  
 Continuation of GTC130 including special set-ups on machines, special joints, adhesives, special finishes, panel doors, panel drawers, metal drawer guides and plastic laminates. Prerequisites: GTC130 or departmental permission.

**GTC144** 3 Credits  
**Introduction to Cabinetmaking**  
 Cutting, shaping, assembling, and finishing of articles of furniture or fixtures; stresses safe use of hand and power tools. Prerequisites: None.

**GTC145** 3 Credits  
**Advanced Cabinetmaking**  
 Advanced types and methods of construction as applied to building projects. Prerequisites: GTC144, or departmental permission.



## ■ Geography

*Includes the following prefixes: (GCU) Cultural Geography and (GPH) Physical Geography.*

**GCU121** 3 Credits  
World Geography I:

Eastern Hemisphere

Description and analysis of areal variations in social, economic, and political phenomena in major world regions. Emphasis on Europe, Russia, North Africa, and the Asian world. Prerequisites: None.

**GCU122** 3 Credits

World Geography II: Western Hemisphere

Description and analysis of variations in social, economic, and political phenomena in major world regions. Emphasis on Sub-Saharan Africa, Latin America, and Anglo America. Prerequisites: None.

**GCU194** 3 Credits

Special Topics in Cultural Geography

Detailed study of specific regions, topics, or current issues in cultural geography. Topics may include origins, diffusion, and division of cultural areas. Examines cultural patterns and spatial organization which may include population, religion, economic, social and political characteristics. Studies interrelationships between humans and the physical environment (i.e. environmental ecosystems, physical processes and natural resources). Prerequisites: None.

**GPH111** 4 Credits

Introduction to Physical Geography

Spatial and functional relationships among climates, landforms, soils, water, and plants. Prerequisites: None.

**GPH112** 3 Credits

Introduction to Physical Geography

Spatial and functional relationships among climates, landforms, soils, water, and plants. Prerequisites: None.

**GPH113** 1 Credit

Introduction to Physical Geography Lab

Laboratory experience in support of GPH112. Prerequisites or Corequisites: GPH112.

## ■ Geology

**GLG101** 3 Credits

Introduction to Geology I - Physical Lecture

A study of the kind and arrangement of materials composing the earth's crust and the geological processes at work on and within the earth's surface. Prerequisites: None.

**GLG103** 1 Credit

Introduction to Geology I - Physical Lab

May accompany GLG101. Study of common rock-forming minerals, rocks, and maps. Prerequisites: None.

**GLG110** 3 Credits

Geologic Disasters and the Environment

Acquaints students with the use and importance of geological studies as they apply to the interactions between people and the earth. Includes geological processes and hazards such as floods, earthquakes, and landslides; use of fossil fuels; mining of raw materials. Prerequisites: None.

**GLG111** 1 Credit

Geological Disasters and the Environment Lab

May accompany GLG110. Basic geological processes and concepts. Emphasis on geology-related environmental problems concerning Arizona. Case histories and field studies. May require field trips. Prerequisites: None.

## ■ German

**GER101** 4 Credits

Elementary German I

Basic grammar, pronunciation and vocabulary of the German language. Includes the study of German culture, practice of listening, speaking, reading and writing skills. Prerequisites: None.

**GER102** 4 Credits

Elementary German II

Continued study of grammar and vocabulary of the German language along with the study of German culture. Emphasis on German language skills. Prerequisites: GER101 or equivalent.

**GER201** 4 Credits

Intermediate German I

Review of essential grammar of the German language and study of the German culture. Continued practice and development of reading, writing, and speaking skills. Prerequisites: GER102, two years of high school German, or departmental approval.

**GER202** 4 Credits

Intermediate German II

Continued development of German language skills and continued study of the German culture. Prerequisites: GER201, or equivalent, or departmental approval.

## ■ Health Related

*Includes the following prefixes: (HCC) Health Core Curriculum, (HES) Health Science and (HIT) Health Information Technology.*

**HCC101** .5 Credit

Health Care Today

Overview of current health care professions, including career and labor market information. Health care delivery system, third party payers, and facility ownership. Health organization structure, patient rights and quality of care. Prerequisites: None.

**HCC103** .5 Credit

Workplace Behavior in Health Care

Health care and life values. Definition and importance of



COURSE DESCRIPTIONS

Health Related

values and ethics. Work ethic behaviors essential for the health care worker. Professional code of ethics, worker's rights and responsibilities. Prerequisites: None.

HCC105 .5 Credit

Personal Wellness and Safety

Healthful living practices such as nutrition, stress management, and exercise. Use of principles of body mechanics in daily living activities. OSHA standard precautions. Prerequisites: None.

HCC107 1 Credit

Communication and Team Work in Health Care Organizations

Emphasis on basic communication skills which facilitate team work in the health care setting. Focus on development of personal communication skills and an understanding of how effective communication skills promote team work. Focus on intercultural communication strategies. Prerequisites: None.

HCC109 .5 Credit

CPR for the Health Care Provider

Current standards for one and two rescuer Cardiopulmonary Resuscitation (CPR) and obstructed airway procedures on the adult, infant, and pediatric victim. Successful completion qualifies student for an American Heart Association CPR card for health care provider. Prerequisites: None.

HCC130 3 Credits

Fundamentals in Health Care Delivery

Overview of current health care professions including career and labor market information. Health care delivery systems, third party payers, and facility ownership. Health organization structure, patient rights and quality care. Health care and life values. Definition and importance of values, ethics, and essential behaviors in the workplace. Worker rights and responsibilities. Healthful living practices to include nutrition, stress management and exercise. Occupational Safety and Health Administration (OSHA) standard precautions and facility safety. Use of principles of body mechanics in daily living activities. Basic communication skills which facilitate team work in the health care setting. Focus on development of personal communication skills and an understanding of how effective communication skills promote team work. Focus on intercultural communication strategies. Prerequisites: None.

HCC130AA .5 Credit

Health Care Today

Overview of current health care professions including career and labor market information. Health care delivery systems, third-party payers, and facility ownership. Health organization structure, patient rights and quality care. Prerequisites: None.

HCC130AB .5 Credit

Workplace Behaviors in Health Care

Health care and life values. Definition and importance of values, ethics, and essential behaviors in the workplace. Worker rights and responsibilities. Prerequisites: None.

HCC130AC .5 Credit

Personal Wellness and Safety

Introduces healthful living practices to include nutrition, stress management and exercise. Includes Occupational Safety and Health Administration (OSHA) standard precautions and facility safety. Use of principles of body mechanics in daily living activities. Prerequisites: None.

HCC130AD .5 Credit

Communication and Teamwork in Health Care Organizations

Emphasis on basic communication skills which facilitate teamwork in the health care setting. Focus on development of personal communication skills and an understanding of how effective communication skills promote teamwork. Focus on intercultural communication strategies. Prerequisites: None.

HCC130AE .5 Credit

Legal and Ethical Issues in Health Care

Basic, legal terminology used in the health care setting. Basic legal concepts related to health care employment. Identification of ethical guidelines including client privacy and rights and ethical decision making. Prerequisites: None.

HCC130AF .5 Credit

Decision Making in the Health Care Setting

Principles and application of the decision making. Description and application of process improvement and the relationship to the decision making model. Prerequisites: None.

HCC140 2 Credits

Medical Terminology for Health Care Workers

Introduction to medical terms used in health care. Body systems approach to common terms related to structures, function, diseases, procedures, and diagnostic tests. Building and analyzing terms using word parts. Selected medical abbreviations and symbols. Prerequisites: HCC101, HCC103, HCC105, HCC107 and HCC109. May be taken concurrently with Level II program pathway courses.

HCC142 1 Credit

Medical Terminology for Specialty Areas

Medical terminology used with special care populations and in special services. Includes obstetric, pediatric, mental health, diagnostic imaging, oncology, and surgery terms. Use of word parts, term spelling and pronunciation. Prerequisites: HCC140.

HCC145 3 Credits

Medical Terminology for Health Care Workers

Medical terminology used in health care, with special care populations and in special services. Body systems approach to terms related to structures, functions, diseases, procedures, and diagnostic tests. Building and analyzing terms using word parts. Medical abbreviations and symbols and term spelling. Prerequisites: None.

HCC145AA 1 Credit

Medical Terminology for Health Care Workers I

Introduction to medical terms used in health care. Body systems approach to selected terms related to structures,

functions, diseases, procedures, and diagnostic tests. Building and analyzing terms using basic word parts. Selected medical abbreviations and symbols and term spelling. Prerequisites: None.

**HCC145AB** 1 Credit  
**Medical Terminology for Health Care Workers II**  
 Additional medical terms used in health care. Body systems approach to more detailed terms related to structures, functions, diseases, procedures, and diagnostic tests. Building and analyzing terms using standard word parts. Common abbreviations and symbols and term spelling. Prerequisites: HCC145AA.

**HCC145AC** 1 Credit  
**Medical Terminology for Health Care Workers III**  
 Medical terminology used with special care populations and in special services. Includes obstetric, pediatric, mental health, diagnostic imaging, oncology, and surgery terms. Use of word parts and term spelling. Prerequisites: HCC145AA and HCC145AB, or HCC146.

**HCC146** 2 Credits  
**Common Medical Terminology for Health Care Workers**  
 Common medical terms used in health care. Body systems approach to terms related to structures, functions, diseases, procedures, and diagnostic tests. Building and analyzing terms using word parts. Medical abbreviations and symbols and term spelling. Prerequisites: None.

**HCC151** .5 Credit  
**Legal and Ethical Issues in Health Care**  
 Basic legal terminology utilized in the health care setting. The basic legal concepts related to health care employment. Identification of ethical guidelines to include client privacy and rights, as well as the process of ethical decision making. Prerequisites: HCC101, HCC103, HCC105, HCC107 and HCC109.

**HCC153** .5 Credit  
**Decision Making in the Health Care Setting**  
 Principles of the decision-making process using the nine-step format and application of the process. Description and application of process improvement and its relationship to the decision-making model. Prerequisites: HCC101, HCC103, HCC105, HCC107 and HCC109.

**HES100** 3 Credits  
**Healthful Living**  
 Health and wellness and their application to an optimal life style. Explores current topics of interest such as stress management, nutrition, fitness, and environmental health. Evaluates common risk factors associated with modern lifestyles. Prerequisites: None.

**HIT170** 3 Credits  
**Medical Terminology for Allied Health**  
 Basic tools for building a medical vocabulary and acquainting the student with medical terms as they pertain to anatomy, physiology, and diseases. Prerequisites: None.

## ■ History

**HIS101** 3 Credits  
**History of Western Civilization Middle Ages to 1789**  
 Survey of origin and development of Western civilization and its institutions from the Renaissance and Reformation through Age of Enlightenment. Prerequisites: None.

**HIS102** 3 Credits  
**History of Western Civilization 1789 to Present**  
 Survey of origin and development of Western civilization and its institutions from French Revolution through the present. Prerequisites: None.

**HIS103** 3 Credits  
**United States History to 1870**  
 The political, economic, and social development of United States from Colonial through Reconstruction period. Prerequisites: None.

**HIS104** 3 Credits  
**United States History 1870 to Present**  
 The political, economic, and social development of United States from Reconstruction period up to present time. Prerequisites: None.

**HIS105** 3 Credits  
**Arizona History**  
 The prehistoric and contemporary Native American experience, Spanish colonial times, the Mexican National period, the U.S. federal territorial years, and Arizona's political and economic development during the twentieth century. Prerequisites: None.

**HIS203** 3 Credits  
**African-American History I**  
 History and cultural heritage of African-Americans from their beginnings in Ancient Africa through the experience of chattel slavery in the Americas to their eventual emancipation and participation in the American Civil War. Prerequisites: None.

**HIS243** 3 Credits  
**World Religions**  
 The development of various religions from the prehistoric to modern times. Political, economic, social and geographic relationships among world religions. Consideration of both Eastern and Western religions. Prerequisites: None.

**HIS273** 3 Credits  
**US Experience in Vietnam 1945 - 1975**  
 Survey of the US experience in Vietnam, 1945-1975, in view of political, economic, and social forces of the Cold War. Prerequisites: None.

**HIS277** 3 Credits  
**The Modern Middle East**  
 Survey of the political and economic development of the Middle East since 1500. Emphasis on the decline of the Moslem empire, the resurgence of contemporary Pan-Arabian, the Palestinian-Israeli question and the impact of oil production on the region and the rest of the world. Prerequisites: None.

Human Services

■ Human Services

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| <p><b>HSA101</b> 1 Credit<br/> <b>Medical Assistance Customer Service</b><br/>                 An examination of Federal, State and county government agencies and the Arizona Health Care Cost Containment System (AHCCCS). Basic application and verifications processes will be introduced. Prerequisites: None.</p> <p><b>HSA105</b> .5 Credit<br/> <b>Recognizing Domestic Violence</b><br/>                 Overview of recognizing domestic violence and resources for the victim. Covers types of violence, behaviors and characteristics of an abuser, effects on children as well as the Domestic Violence Statute and Orders of Protection. Prerequisites: None.</p> <p><b>HSA110</b> 2 Credits<br/> <b>Eligibility Criteria I</b><br/>                 An in depth exploration of the criteria needed to meet household, income and livelihood restrictions for determining eligibility for the Arizona Health Care Cost Containment System (AHCCCS). Includes calculations of expenses and deductions and their relationship to eligibility determination. Prerequisites: HSA101.</p> <p><b>HSA112</b> 2 Credits<br/> <b>Assistance Office Procedures</b><br/>                 Procedures for Federal and State assistance offices. Includes office support procedures, computer systems, interview procedures. Prerequisites: None.</p> <p><b>HSA113</b> 2 Credits<br/> <b>Family Assistance Computer System Overview</b><br/>                 Overview of the computer system used in the Family Assistance Administration Office. Use of the Arizona Technical Eligibility Computer System and Arizona Integrated Manual and Benefit Information Guide emphasized. Role and responsibilities of an eligibility interviewer covered. Prerequisites: None.</p> <p><b>HSA114</b> 3 Credits<br/> <b>Assistance Applications</b><br/>                 Overview of Federal and State policies and procedures for determining food stamps eligibility and medical assistance referrals. Includes introduction to eligibility and medical assistance referral process, interviewing techniques, initial applications and forms processing Prerequisites: None.</p> <p><b>HSA116</b> 3 Credits<br/> <b>Assistance Determination</b><br/>                 Overview of Federal and State policies and procedures for determining eligibility for assistance payments. Includes assistance payments eligibility determination, general assistance applications, expedited services, presumptive eligibility, recertification applications and eligibility reviews. Prerequisites: None.</p> | <p><b>HSA118</b> 3 Credits<br/> <b>Medical Assistance Determination</b><br/>                 Overview of Federal and State policies and procedures for determining medical eligibility. Includes medical assistance eligibility determination, application procedures, non-financial and financial eligibility factors, emergency services for ineligible aliens, duration of coverage, and decision notices and changes. Prerequisites: None.</p> <p><b>HSA120</b> 2 Credits<br/> <b>Eligibility Criteria II</b><br/>                 Further examination of the eligibility determination process. Includes resource evaluation, citizenship/alien determinations and Sixth Omnibus Budget Reconciliation Act (SOBRA). Prerequisites: HSA110.</p> <p><b>HSA122</b> 2 Credits<br/> <b>Unemployment Insurance Claims Taking</b><br/>                 Procedures for making claimant eligibility determinations and employer chargeability. Also includes interviewing techniques, required documentation and processes for generating determinations. Prerequisites: Departmental approval.</p> <p><b>HSA124</b> 2 Credits<br/> <b>Unemployment Insurance Adjudication I</b><br/>                 Further examination of chargeability issues. Types of evidence, rules governing credibility of evidence and further development of factfinding skills. Special emphasis on separation issues, rules and determinations. Prerequisites: HSA122.</p> <p><b>HSA126</b> 2 Credits<br/> <b>Unemployment Insurance Adjudication II</b><br/>                 Examination of advanced eligibility issues. Special types of adjudications including administrative penalties, retirement/pension and educational wages. Prerequisites: HSA124.</p> <p><b>HSA130</b> 1 Credit<br/> <b>Human Resource Management System</b><br/>                 Introduction to the Human Resource Management System (HRMS). Covers basic components of the system as well as navigation and forms completion procedures. Prerequisites: None.</p> <p><b>HSA135</b> 4 Credits<br/> <b>Applied Eligibility</b><br/>                 Management of client case files from application through determination. Also includes the appeals and redetermination processes, documentation and the refinement of interviewing and questioning techniques. Prerequisites: HSA120.</p> <p><b>HSA150</b> 2 Credits<br/> <b>Government Office Management</b><br/>                 Development of skills to manage employees in the government assistance setting. Overview of management philosophies and techniques for effective time management, problem solving and communications. Prerequisites: None.</p> |
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COURSE DESCRIPTIONS  
Human Services • Humanities

**HSA152** 2 Credits  
**Government Office Evaluations**  
Procedures for conducting evaluations of government assistance employees. Includes evaluation processes, the employee appraisal system, and rating guidelines. Required reports and documentation for managers. Prerequisites: HSA150.

**HSA160** 3 Credits  
**Employment Assistance Administration I**  
Administration of the Job Opportunities and Basic Skills (JOBS) Training program. Includes assessment and development of the Employment Plan Agreement (EPA) and case management procedures. JOBS components and support services also covered. Prerequisites: None.

**HSA162** 3 Credits  
**Employment Assistance Administration II**  
Further instruction in the administration of the Job Opportunities and Basic Skills (JOBS) Training program. Includes sanctionable and withholding issues as well as monitoring and evaluation of employment. Dispute resolution, fair hearings and grievances procedures covered. Prerequisites: HSA160.

**HSA170** 2 Credits  
**Employment and Training Administration I**  
Administration of the Employment and Training program using the Job Service Automated System (JSAS). Includes assessment and development of the Employment Plan Agreement (EPA) and case work techniques. Component activities and support services also covered. Prerequisites: None.

**HSA172** 2 Credits  
**Employment and Training Administration II**  
Further instruction in the administration of the Employment and Training program using the Job Service Automated System (JSAS). Includes sanctionable issues as well as monitoring and evaluation of employment. Dispute resolution, fair hearings and grievances procedures also covered. Prerequisites: HSA170.

**HSA180** 1 Credit  
**Arizona Financial Information System**  
Introduction to the Arizona Financial Information System (AFIS). Covers basic components of the system as well as data elements, navigation and forms completion procedures. Prerequisites: None.

**HSA222** 3 Credits  
**Advanced Eligibility Determination I**  
Advanced eligibility issues with regards to gross income, budgeting and beginning/terminated income. Includes policy for making changes, calculations for determinations, and effects of increase and decrease of benefits. Prerequisites: None.

**HSA224** 2 Credits  
**Advanced Eligibility Determination II**  
Advanced eligibility issues with regards to Federal and State policies and procedures for making changes to Food Stamp (FS), Medical Assistance (MA), and Aid to Families with Dependent Children (AFDC) cases. Includes changes in household, assistance, expenses and resources as well as non-compliance procedures. Prerequisites: HSA222.

**HSA226** 2 Credits  
**Advanced Eligibility Determination III**  
Two Parent Employment Program (TPEP) case management and the Federal Emergency Services Program. Also includes policy for dealing with cases of minor parents and the self-employed. Prerequisites: HSA224.

## ■ Humanities

**HUM101** 3 Credits  
**General Humanities**  
A general humanities course concentrating on three great ages of outstanding human achievement: The Golden Age of Greece, the Renaissance and the 20th Century. Prerequisites: None.

**HUM107** 3 Credits  
**Humanities Through the Arts**  
Introduction to humanities including film, drama, music, literature, painting, sculpture, and architecture. Prerequisites: None.

**HUM108** 3 Credits  
**Contemporary Humanities**  
An exploration of human expression in contemporary arts and sciences. Prerequisites: None.

**HUM190AA-AI** 1 Credit  
**Honors Forum**  
Interdisciplinary studies of selected issues confronting the individual and society. Formal lectures followed by informal discussions with outstanding scholars and social leaders. Supplemented by readings and pre- and post-forum discussion and critique. Varied content from module to module due to changing forum themes and issues. Prerequisites: Admission to the College Honors Program or permission of the instructor.

**HUM205** 3 Credits  
**Introduction to Cinema**  
Survey of the history and development of the art of motion pictures, including criticism of aesthetic and technical elements. Prerequisites: None.

**HUM210** 3 Credits  
**Contemporary Cinema**  
A study of contemporary films, directors and critics with emphasis on evaluating film as an art form. Prerequisites: None.

**HUM250** 3 Credits  
**Ideas and Values in the Humanities**  
 A historical analysis of the interrelationships of art, architecture, literature, music, and philosophy from the early civilizations to the Renaissance, including western and non-western cultures. Prerequisites: ENG101.

**HUM251** 3 Credits  
**Ideas and Values in the Humanities**  
 A historical analysis of the interrelationships of art, architecture, literature, music, and philosophy from the Renaissance to modern period, including western and non-western cultures. Prerequisites: ENG101.

## ■ Industry

**IND110** 1 Credit  
**Introduction to the Printing Industry**  
 Brief history/introduction of graphic arts technologies including printing, photography, graphics and text. Safety and health practices, job estimating and trade customs as well as legal restrictions and requirements covered. Prerequisites: None.

**IND111** 3 Credits  
**Paper, Binding and Finishing Techniques**  
 Finishing techniques and binding styles of paper. Covers paper properties, requirements, and grades. Various finishing and binding styles emphasized. Prerequisites: None.

**IND112** 2 Credits  
**Lithographic Inks and Offset Press Operations**  
 Basic overview of lithographic inks and offset press operations. Sheet-fed and web-fed offset presses emphasized. Prerequisites: None.

## ■ Integrated Studies

**IGS290** 3 Credits  
**Integrated Studies**  
 Integrated nature of human experience. Critical inquiry of a particular theme from a wide variety of academic viewpoints. Synthesis of knowledge and skills. Evaluation of experience and decisions from ethical, aesthetic, and intellectual perspectives. Preparation of three formal papers. Prerequisites: ENG101 or ENG107 or equivalent.

## ■ Japanese

**JPN101** 5 Credits  
**Elementary Japanese I**  
 Basic grammar, pronunciation, and vocabulary of Japanese. Study of Japanese culture. Development of speaking, listening, reading and writing skills. Prerequisites: None.

**JPN102** 5 Credits  
**Elementary Japanese II**  
 Continued study of basic grammar, pronunciation and vocabulary of Japanese. Study of the Japanese culture. Intensive practice in oral communication and development

of reading and writing skills. Prerequisites: JPN101 or departmental approval.

**JPN201** 5 Credits  
**Intermediate Japanese I**  
 Expansion of sentence structures through oral/aural practice. Increased emphasis on reading and writing in Japanese and study of Japanese culture. Prerequisites: JPN102 or equivalent.

**JPN202** 5 Credits  
**Intermediate Japanese II**  
 Extensive review of Japanese grammar; development of vocabulary and idiomatic expressions through reading and writing. Continued practice of oral communication skills and study of Japanese culture. Prerequisites: JPN201 or equivalent.

## ■ Latin

**LAT101** 4 Credits  
**Elementary Latin I**  
 Introduction to the basic grammar and vocabulary of the Latin language. Practice reading and translating Latin into English. Prerequisites: None.

**LAT102** 4 Credits  
**Elementary Latin II**  
 Comparative study of English and Latin grammar. Emphasis on analytical thinking, memorization, and familiarization with new terminology. Translation from English and from original works in Latin. Prerequisites: LAT101 or permission of instructor.



## ■ Law Enforcement Technology

**LET100** 1 Credit  
**Introduction to Law Enforcement Technology**

Overview of law enforcement and administration of criminal justice system. Course outlines the criminal justice process from arrest to final disposition. Also includes the relationship between the branches of government and various components of the criminal justice system. Prerequisites: Departmental approval.

**LET102** 4 Credits  
**Criminal Investigation**  
 Overview of specialized techniques for the investigation of various types of crimes. Includes technology in police data processing operations as well as the nature and structure of various types of specialized crimes and crime groups. Also introduces techniques for interviewing and interrogation. Prerequisites: Departmental approval.

**LET106** 2 Credits  
**Patrol Procedures**  
 Overview of the types and purposes of police patrol; including vehicle patrol and routine patrol procedures, mediation,

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and management of crisis situations. Emphasis on citizen protection, crime prevention, and identification and apprehension of suspects. Prerequisites: Departmental approval.

LET109 2 Credits  
Criminal Law

Overview of the basic concepts and terminology of statutory law. Examination of some of the most frequently used sections. Prerequisites: Departmental approval.

LET111 2 Credits  
Tactical Driving

Overview of basic defensive driving techniques, dynamics of moving vehicle, the driving task, and driving a vehicle under hazardous conditions. Includes theory of high speed vehicle control while in pursuit, methods to successfully stop fleeing vehicles, psychological and physiological factors, liability issues, and methods for reducing the risks of pursuit. Prerequisites: Departmental approval.

LET119 1 Credit  
Community Relations

Includes media relations, child protective services, equal employment opportunity, the importance of ethics and professionalism for good community relations, and educating the community in the area of crime prevention. Prerequisites: Departmental approval.

LET125 2 Credits  
Legal Aspects of Law Enforcement

Overview of the basic guidelines of the United States and state constitutions, focusing on those parts which deal with the rights of the individuals. Also covers laws of arrest, common civil and criminal liabilities experienced by law enforcement officers and agencies, the civil process, rules of evidence, and courtroom proceedings. Prerequisites: Departmental approval.

LET127 2 Credits  
Field Problems

Practical application of the knowledge and skills of police procedures needed to respond to various types of law enforcement problems. Emphasis on responding to simulated problem situations dealing with officer safety, interpersonal skills, problem solving, and paperwork. Prerequisites: Departmental approval.

LET130 2 Credits  
Detention Officer Training

Introduction to detention facility philosophy and goals. Examination of services and programs provided to inmates. Also includes officer responsibilities with regards to discipline, conduct and dealing with inmates in the legal system. Prerequisites: Departmental approval.

LET132 3 Credits  
Introduction to Correctional Law

Introduction to the legal and constitutional rights of inmates. Pre-trial, sentencing, and probation processes covered. Court cases and the litigation process with regards to enforcement personnel and custodial agencies discussed. Prerequisites: LET130.

LET134 2 Credits  
Detention Management I

Management skills for dealing with inmates with special needs. Issues related to female inmates, drug addictions, and mental disorders covered. Techniques for dealing with suicidal inmates and gang members included. Prerequisites: LET132.

LET135 2 Credits  
Detention Management II

Further examination of management techniques and tools within the detention facilities. Crisis intervention and problem solving techniques covered. Also includes medical screening, fingerprinting, intake/release procedures and the classification system. Prerequisites: LET134.

LET136 2 Credits  
Detention Security Procedures

Security procedures within the detention facilities. Officer responsibilities with regards to contraband, facility security, and key/tool control. Procedures for conducting searches, security walks, and headcounts, managing visitations and proper use of restraints. Dealing with hostage and emergency situations covered. Prerequisites: LET135.

LET138 1 Credit  
Detention Officer Emergency Procedures

Techniques for managing emergency situations in the detention facility including fires and medical emergencies. Skills for administering first aid and cardiopulmonary resuscitation (CPR). Procedures for use of chemical agents and electronic restraint devices. Prerequisites: LET136.

LET139 2 Credits  
Detention Facility Training

Daily procedures for managing the detention facility. Includes processing inmate needs and requests, completing departmental reports and managing "special needs" inmates. Operational procedures for all functional areas of the facility covered. Prerequisites: LET138.

LET140 1 Credit  
R.I.S.C. Team Training

Procedures of Resistive Inmate Subdue and Control (R.I.S.C.) Team including activation, operation, documentation, and incident critique. Covers team function, members and their responsibilities, as well as equipment, camcorder usage, restraint chair and various restraint modes. Restraint scenarios emphasized. Prerequisites: Must be a law enforcement officer and have departmental approval.

LET143 3 Credits  
Physical Conditioning and Wellness

Emphasis on developing physical fitness for the participants through mental and physical conditioning, structured exercise, and classroom education. Basic elements of strength training, aerobic conditioning, flexibility, and nutrition. Prerequisites: None.

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| LET145<br>Arrest/Defense Tactics<br>Proper use of lethal and non-lethal defensive tactics, techniques of stopping and approaching suspects in vehicles and on foot, and the custody and transportation of prisoners. Emphasis on basic safety and protection for both the officer and violator during initial contact, arrest and transportation. Prerequisites: Departmental approval. | 5 Credits | LET161<br>Correctional Sergeant's Leadership Procedures<br>Leadership procedures for correctional sergeants. Leadership and supervision styles, duties, physical fitness and personal value systems as well as communication process and available resources covered. Prerequisites: None.   | 3 Credits |
| LET146<br>Officer Survival<br>Overview of skills and techniques for officer survival. Tactical thinking, critical incident stress, entry techniques and emergency plans as well as basic high risk traffic stops and search warrants covered. Limitations of the mind and body in a crisis also covered. Prerequisites: None.   | 1 Credit  | LET162<br>Introduction to Inmate Management<br>Effective inmate management techniques. Includes components of effective management and use of officer discretion. Criminal justice system, Arizona Government and correctional system structure also covered. Procedures for dealing with inmate discipline and classification, grievances, and use of force determinations. Prerequisites: Departmental approval. | 3 Credits |
| LET150<br>Firearms I<br>Overview of firearms usage. Covers firearms safety and nomenclature, basic firearms usage techniques, and firearms care and cleaning. Prerequisites: Departmental approval.   | 3 Credits | LET164<br>Correctional Information Systems<br>Overview of policies and guidelines for professional and effective distribution of information within the correctional system, including regulations governing two-way radio operation and use of a field notebook. Prerequisites: Departmental approval.  | 1 Credit  |
| LET151<br>Firearms II<br>Practical application of firearms usage. Covers loading and unloading ammunition, firearms safety, daytime and nighttime firing techniques and shooting positions. Prerequisites or Corequisites: LET150.  | 2 Credits | LET166<br>Correction Officers Safety and Weapons Training<br>Basic shooting principles of the weapons used by correctional officers. Includes nomenclature, handling, loading and firing of the service revolver, rifle, shotgun and 37mm gas gun. Lawful use of chemical agents including identification, coding, delivery and decontamination procedures. Prerequisites: Departmental approval.                  | 2 Credits |
| LET152<br>Tactical Weapons<br>Basic impact weapons and handgun fighting. Emphasis on handgun, expandable/straight baton and side handle baton operations, including impact weapon targets and use of force. Includes importance of physical fitness, stress factors, and techniques for engaging suspects. Prerequisites: Departmental approval.  | 2 Credits | LET168<br>Inmate Security Procedures<br>Procedures for dealing with issues of contraband, searches and inmate transportation. Use of various levels of restraints and progressive behavior control. Inmate count, personal property inventory and forced cell move procedures also covered. Prerequisites: Departmental approval.  | 2 Credits |
| LET155<br>General Instructor Certification<br>Designed to aid persons responsible for training in the workplace. Emphasis on motivating the adult learner, systematic training, planning and evaluating performance. Prerequisites: None.   | 3 Credits | LET170<br>Security, Custody and Control Procedures<br>Procedures for maintaining security and control within a correctional institution. Includes custody levels, roles of staff and essential components with regards to span-of-control. Also covers procedures for dealing with crime scene management, fires and emergency situations. Prerequisites: Departmental approval.                                   | 2 Credits |
| LET156<br>First Aid<br>First aid in a law enforcement environment, including impaired breathing, cardiac conditions, resuscitation, control of bleeding, movement of injured persons, shock, injury, and legal and civil issues associated with rendering emergency care. Prerequisites: Departmental approval.   | 2 Credits | LET172<br>Conflict and Crisis Management<br>Conflict and crisis management techniques for correctional institutions. Effecting positive, non-forceful resolutions to potentially violent situations. Emphasis on officer and inmate safety. Prerequisites: Departmental approval.  | 2 Credits |
| LET160<br>Correctional System Ethics and Professionalism<br>Overview of policies and guidelines with respect to professionalism and ethics in the correctional system. Includes workforce diversity, staff-inmate relations, and harassment issues. Also covers the definition of ethics and the basis for ethical decision making. Prerequisites: Departmental approval.               | 1 Credit  |  |           |

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| <b>LET176</b> 2 Credits<br><b>Medical and Mental Health</b><br>Responsibilities of the correctional system staff with regards to medical and mental health of inmates. Includes basic first aid, basic life support, and supervision and care for mentally ill and impaired inmates. Also includes drug and substance abuse and communicable disease control. Prerequisites: Departmental approval.   | <b>LET202</b> 2 Credits<br><b>Traffic Procedures</b><br>Overview of traffic procedures. Includes citations and warnings, traffic control, accident investigation, and dealing with impaired drivers. Prerequisites: Departmental approval.  |
| <b>LET178</b> 3 Credits<br><b>Physical Fitness and Self Defense Training</b><br>Physical and self defense training for correctional officers. Emphasis on aerobic power, muscular strength, endurance, and flexibility. Includes necessary and legal self defense along with techniques for protection of self and others in physical confrontations. Also includes training guidelines, safety issues and the benefits of good physical fitness. Prerequisites: Departmental approval. | <b>LET203</b> 2 Credits<br><b>Report Writing</b><br>Overview of types and parts of reports. Includes elements of composition; characteristics of reports; substance; conclusions; statistics; accurate and complete descriptions of persons and property; and the importance of notes, their preservation, and final use. Prerequisites: Departmental approval.   |
| <b>LET179</b> 2 Credits<br><b>Traffic Enforcement Procedures</b><br>Overview of operational procedures for traffic enforcement officers. Covers pursuits, roadblocks, and report writing as well as sudden custody death syndrome. Incident command system also covered. Prerequisites: Departmental approval.  | <b>LET211</b> 2 Credits<br><b>Criminalistics</b><br>Study of fingerprinting, crime scene processing, preliminary investigations and crime scene management. Prerequisites: Departmental approval.   |
| <b>LET183</b> 2 Credits<br><b>Traffic Offenses</b><br>Transportation law provisions. Covers Arizona Revised Statute (ARS) Title 28, drug transportation, and contraband as well as civil and criminal traffic laws. Traffic offenses, violation name, and classification included. Prerequisites: Departmental approval.  | <b>LET223</b> 1 Credit<br><b>Search and Seizure</b><br>Overview of statutes, constitutional requirements, and case law covering search and seizure. Includes procedures for obtaining and serving a search warrant as well as procedures for searching persons, premises and vehicles. Prerequisites: Departmental approval.  |
| <b>LET188</b> 3 Credits<br><b>Vehicle Inspection</b><br>Commercial vehicle inspection procedures. Covers driver and vehicle commercial transportation regulated by Arizona Revised Statutes (ARS) 28 and 29. Includes transportation of hazardous materials, various vehicle components and systems, towaway operations, and inspection reports. Prerequisites: Departmental approval.  | <b>LET225</b> 4 Credits<br><b>Investigator Training</b><br>Police Detective Training. Emphasis on investigations, search and seizure, legal aspects of interview and interrogation, report writing, case management, and field problem scenarios. Prerequisites: 3 years experience as a police officer and nine semester hours related college courses.  |
| <b>LET190</b> 1 Credit<br><b>Human Communications and Relations</b><br>Overview of human communications and human relations, with special emphasis on techniques used to overcome problems of communication. Covers various communication methods used in dealing with the community and techniques for handling crisis situations. Prerequisites: Departmental approval.   | <b>LET226</b> 6 Credits<br><b>Arrest and Defense Tactics Instructor Training</b><br>Techniques for instructing students in arrest and defense tactics. Includes approaching suspects, use of equipment, and officer responsibilities as well as handcuffing and transporting prisoners. Use of force and liability issues, pressure points and impact weapons also covered. Close Quarter Crisis Management and psychological factors emphasized. Prerequisites: Departmental approval. |
| <b>LET201</b> 3 Credits<br><b>Physical Fitness Instructor Certification</b><br>Covers skills necessary to instruct and conduct physical fitness tests using the Cooper Institute for Aerobics Research standards and the Peace Officer Physical Aptitude Test (POPAT) standards. Also covers basics of human anatomy, strength training and aerobic conditioning as well as nutrition and prevention of injuries. Prerequisites: Department approval.                                   | <b>LET229</b> 1 Credit<br><b>High Risk Situations/Instructor Training</b><br>Techniques for instructing students in high risk/known risk situations. Includes pre-stop procedures, primary and back-up officer responsibilities, suspect removal, and vehicle positioning. Prerequisites: None.   |
|   | <b>LET230</b> 3 Credits<br><b>Cultural Awareness for Law Enforcement</b><br>Cultural diversity awareness for Law Enforcement Officers. Topics include multiculturalism, prejudice, stereotypes, gender issues, power, and changing the status quo. Prerequisites: Departmental approval.  |



Law Enforcement Technology • Library Skills

**LET250** 2 Credits  
**DUI Detection**

Overview of alcohol-related DUI enforcement and general deterrence, DUI detection and description techniques, legal statutes, Standardized Field Sobriety Test (SFST's) procedures, DUI arrest process, report writing, courtroom testimony techniques and drug detention techniques. Prerequisites: Departmental approval.

**LET252** .5 Credit  
**Impaired Driver Testing**

Proper use of a breath test device. Emphasis on the detection of impaired drivers. Characteristics of various types of alcohol also covered. Prerequisites: Departmental approval.

**LET260** 3 Credits  
**Traffic Accident Investigation**

Overview of accident investigation techniques. Types of friction marks, debris, physical evidence on the roadway and from the vehicle. Human factors and reaction times also covered. Measurement and calculations emphasized. Prerequisites: MAT102 or permission of instructor.

**LET272** 3 Credits  
**Drug Classifications**

Methods for classifying and evaluating drug effects for Drug Recognition Experts (DRE). Covers central nervous systems depressants and stimulants, hallucinogens, phen-cyclidine (PCP), and narcotic analgesic as well as inhalants, cannabis and drug combinations. Categories, symptoms and indicators of use, also included. Prerequisites: Must be a law enforcement officer or have prior approval from the State Drug Recognition Expert Operations Coordinator, departmental approval from the officer's police agency, and must be Horizontal Gaze Nystagmus (HGN) certified or prior approval of course instructor.

**LET279AA** 4 Credits  
**Field Training: Phase I**

Introduction to the Field Training Program. Overview of standards for officers in training. Also includes vehicle inspection, traffic stops, writing citations and field interview cards. Use of the radio and Mobil Data Terminal (MDT) covered. Integration of radio and MDT use while driving patrol emphasized. Prerequisites: Departmental approval.

**LET279AB** 5 Credits  
**Field Training: Phase II**

Continuation of field training. Procedures of a Callback Center, bookings at the county and city jails, and orientation to the Communications Center emphasized. Standards for officers in training also evaluated as well as emphasis on effective report writing. Prerequisites: Departmental approval.

**LET279AC** 5 Credits  
**Field Training: Phase III**

Continuation of field training. Procedures in arrest of suspects driving under the influence (DUI) and for investigating accidents emphasized. Includes firearms

qualifying. Standards for officers in training also evaluated. Prerequisites: Departmental approval.

**LET279AD** 4 Credits  
**Field Training: Phase IV**

Culmination of field training. Self initiated field activity, 'On-view' cases emphasized. Integration of recognizing activity that is suspicious in nature or illegal and appropriate action. Standards for officers in training also evaluated. Prerequisites: Departmental approval.

**LET290** 4 Credits  
**Supervisor Examination Preparation**

Analysis of material covered on the Phoenix Police Department Sergeants Examination. Topic sources include Phoenix Police Department Operation Orders, Phoenix Police Department General Orders, Memorandum of Understanding, Arizona Revised Statutes Title 13 and 28, Phoenix Personnel Rules, and selected Police Management Regulations. Techniques for oral boards and presentations also included. Prerequisites: Departmental approval.

**LET291** 3 Credits  
**Supervision Oral Board Preparation**

Mock oral board for the Phoenix Police Department Sergeants Examination. Emphasis on the five factors of scoring dimensions. Practice predicting possible oral board questions as well as presentation techniques. Prerequisites: Departmental approval.

**LET292** 2 Credits  
**Supervision of Police Personnel**

Supervision responsibility in the law enforcement setting. Includes leadership styles and employee discipline and evaluation as well as deployment, training and instruction techniques. Prerequisites: Departmental approval.



■ **Library Skills**

**LBS101** 2 Credits  
**Library Resource Concepts and Skills**

Information access skills for print and electronic resources.

Use of libraries and their structure, tools, and staff to identify, locate, evaluate and make effective and ethical use of information. Emphasizes critical thinking skills. Prerequisites: None.

**LBS201** 1 Credit  
**Electronic Resources Concepts and Skills**

Use of computers to access electronic databases and to process search results. Includes search concepts and strategies, evaluating search results, and bibliographic citing of electronic sources. Prerequisites: None.

## ■ Management

- MGT101** 3 Credits  
**Techniques of Supervision**  
 Overview of the foundations of supervision and how to get things done within an organization through other people. The functions of planning, organizing, staffing, motivating and controlling presented. Prerequisites: None.
- MGT172** 1 Credit  
**Organizations, Paradigms, and Change**  
 Examines the nature of organizations, paradigms, and change as organizations manage for excellence. Focuses on current practices and future trends in total quality management. Includes ethics and the future of organizations in a global economy. Prerequisites: None.
- MGT175** 3 Credits  
**Business Organization and Management**  
 Covers basic principles of managing quality and performance in organizations. Covers management functions: planning, organizing, leading, and controlling. Emphasizes continual improvement, ethics, and social responsibility. Prerequisites: None.
- MGT229** 3 Credits  
**Management and Leadership I**  
 Covers management concepts and applications for business, industry, and government organizations. Prerequisites: None.
- MGT230** 3 Credits  
**Management and Leadership II**  
 Includes practical applications of activities, issues, and problems related to current managerial and supervisory skills and talents. Prerequisites: MGT229 or departmental approval.
- MGT251** 3 Credits  
**Human Relations in Business**  
 Analysis of motivation, leadership, communications, and other human factors. Cultural differences that may create conflict and affect morale individually and within organizations. Prerequisites: None. MGT101 or MGT175 or MGT229 suggested, but not required.
- MGT253** 3 Credits  
**Owning and Operating a Small Business**  
 Starting, organizing, and operating a small business, including location, finance management processes, advertisement and promotion, credit, inventory control and ethics. Prerequisites: None.
- MGT259** 1 Credit  
**Management Seminar**  
 Classroom portion of the management internship experience, including student development of specific job-related objectives to be accomplished at the work site. Exploration of general business and specific work-related topics in a seminar setting. May be repeated for a total of two (2)

credits. Prerequisites: Department approval. Corequisites: MGT260AA.

- MGT260AA** 3 Credits  
**Management Internship**  
 Laboratory portion of management seminar course. Fifteen hours weekly. Supervised and evaluated by internship coordinator. May be repeated for a total of six (6) credits. Prerequisites: Departmental approval. Corequisites: MGT259.
- MGT275** 3 Credits  
**Office Management and Procedures**  
 Covers basic administrative office services and systems, including analysis and management of operations, information systems, human resources, and facilities design. Prerequisites: None. MGT175, or MGT229 suggested but not required.
- MGT276** 3 Credits  
**Personnel/Human Resources Management**  
 Human resource planning, staffing, training, compensating, and appraising of employees in labor-management relationships. Prerequisites: None. MGT101, or MGT175, or MGT229 suggested but not required.

## ■ Marketing

- MKT271** 3 Credits  
**Principles of Marketing**  
 An analysis of the marketing process and environment with regard to the product, pricing, distribution, and communication in order to satisfy buyer needs. Prerequisites: None.



## ■ Mathematics

- MAT082** 3 Credits  
**Basic Arithmetic**  
 Primary emphasis placed on fundamental operations with whole numbers, fractions, decimals, integers, and rational numbers; proportions, and percentages. Other topics include representations of data, geometric figures, and measurement. Prerequisites: None.
- MAT092** 3 Credits  
**Introductory Algebra**  
 Basic axioms of algebra, linear equations in one and two variables, operations on polynomials, rational expressions, graphing of linear equations and the solving of linear equations. May receive credit for only one of the following: MAT090, MAT091, or MAT092. Prerequisites: Grade of "C" or better in MAT082, or MAT102, or equivalent, or satisfactory score on district placement exam.

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Mathematics

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| <p><b>MAT092AA</b><br/>Introductory Algebra/1st Degree Equation Inequalities</p> <p>The study of basic operations on integers, and rational numbers and the solving of first degree one variable equations and inequalities. Prerequisites: Grade of "C" or better in MAT082, or MAT102, or equivalent, or satisfactory score on district placement exam.</p>  | <p>1 Credit</p>  | <p>radical, rational, exponential and logarithmic functions; linear, quadratic, rational and absolute value inequalities; systems of linear equations. May receive credit for only one of the following: MAT120, MAT121, or MAT122. Prerequisites: Grade of "C" or better in MAT090, MAT091, MAT092, or equivalent, or a satisfactory score on the district placement exam.</p>  |
| <p><b>MAT092AB</b><br/>Introductory Algebra/Polynomials</p> <p>Fundamental operations with polynomials in one or more variables. Techniques in factoring and its use in equation solving. Prerequisites: Grade of "C" or better in MAT092AA or equivalent.</p>   | <p>1 Credit</p>  | <p><b>MAT122</b><br/>Intermediate Algebra</p> <p>Algebraic operations on radical and rational expressions and complex numbers; linear, quadratic, absolute value, radical, rational, exponential, and logarithmic functions; linear, quadratic, rational, and absolute value inequalities; systems of linear equations. May receive credit for only one of the following: MAT120, MAT121, or MAT122. Prerequisites: Grade of "B" or better in MAT090, MAT091, MAT092, or equivalent, or a satisfactory score on the district placement exam.</p> |
| <p><b>MAT092AC</b><br/>Introductory Algebra/Graphing Systems</p> <p>Graphing linear equations in two variables and solving systems of equations in two variables. Also problem solving using systems of equations, operations with rational expressions, and problem solving with rational expressions. May receive credit for only one of the following: MAT090 or MAT092. Prerequisites: Grade of "C" or better in MAT092AB or equivalent.</p>   | <p>1 Credit</p>  | <p><b>MAT122AA</b><br/>Intermediate Algebra I</p> <p>Linear and quadratic equations and inequalities; systems of linear equations. May receive credit for only one of the following: MAT120, MAT121, or MAT122. MAT122AA, MAT122AB, and MAT122AC together are equivalent to MAT122. Prerequisites: Grade of "B" or better in MAT090, MAT091, MAT092, or equivalent, or a satisfactory score on the district placement exam.</p>  |
| <p><b>MAT102</b><br/>Mathematical Concepts/Applications</p> <p>A problem solving approach to mathematics as it applies to life and the world of work. Development, demonstration, and communication of mathematical concepts and formulas that relate to measurement, percentage, statistics, and geometry. Prerequisites: Grade of "C" or better in MAT082, or equivalent, or satisfactory score on district placement exam.</p>  | <p>3 Credits</p> | <p><b>MAT122AB</b><br/>Intermediate Algebra II</p> <p>Absolute value equations and inequalities; radical expressions and functions. May receive credit for only one of the following: MAT120, MAT121, or MAT122. MAT122AA, MAT122AB, and MAT122AC together are equivalent to MAT122. Prerequisites: Grade of "C" or better in MAT122AA or equivalent.</p>  |
| <p><b>MAT103AA</b><br/>Mathematics for Industrial Applications I</p> <p>Fundamental operations with whole numbers, common fractions, decimals, percentages, and ratio and proportion. Graphs, measurements, and measurement tools. Fundamentals of algebra to include signed numbers, algebraic operations, linear equations, graphs of linear equations, and systems of equations. Includes applied math problems. Prerequisites: None.</p>   | <p>2 Credits</p> | <p><b>MAT122AC</b><br/>Intermediate Algebra III</p> <p>Rational expressions, equations, and inequalities; exponential and logarithmic functions. May receive credit for only one of the following: MAT120, MAT121, or MAT122. MAT122AA, MAT122AB, and MAT122AC together are equivalent to MAT122. Prerequisites: Grade of "C" or better in MAT122AB or equivalent.</p>   |
| <p><b>MAT103AB</b><br/>Mathematics for Industrial Applications II</p> <p>Fundamentals of plane geometry and angular measure. Theorems, axioms, corollaries and definitions applying to triangles, congruent and similar figures, polygons, and circles. Computed measure of geometric figures, area, volume, surface area, and weight. Fundamentals of trigonometry, trigonometric functions, right triangles, law of sines and law of Cosines. Includes applied math problems. Prerequisites: MAT103AA or permission of the instructor.</p> | <p>2 Credits</p> | <p><b>MAT142</b><br/>College Mathematics</p> <p>Working knowledge of college-level mathematics and its applications to real-life problems. Emphasis on understanding mathematical concepts and their applications rather than on manipulative skills. Appropriate for the student whose major does not require college algebra or pre-calculus. Prerequisites: Grade of "C" or better in MAT120 or MAT121 or MAT122 or equivalent, or satisfactory score on district placement exam.</p>   |
| <p><b>MAT120</b><br/>Intermediate Algebra</p> <p>Algebraic operations on radical and rational expressions and complex numbers; linear, quadratic, absolute value,</p>  | <p>5 Credits</p> |  |

## Mathematics

- MAT150** 5 Credits  
College Algebra Concepts  
Relations and functions; polynomial functions; exponential and logarithmic functions; systems of equations and inequalities; matrices; sequences and series. May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187. Prerequisites: Grade of "C" or better in MAT120 or MAT121 or MAT122 or equivalent, or satisfactory score on district placement exam.
- MAT151** 4 Credits  
College Algebra  
Relations and functions; polynomial functions; exponential and logarithmic functions; systems of equations and inequalities; matrices; sequences and series. May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187. Prerequisites: Grade of "C" or better in MAT120, MAT121, MAT122 or equivalent, or satisfactory score on district placement exam.
- MAT151AA** 1 Credit  
College Algebra/Introduction to Functions I  
Relations and functions. MAT151AA, MAT151AB, MAT151AC and MAT151AD together are equivalent to MAT151. May receive credit for only one of the following: MAT150, MAT151, MAT152, MAT187. Prerequisites: Grade of "C" or better in MAT120, MAT121, MAT122, or equivalent, or satisfactory score on district placement exam.
- MAT151AB** 1 Credit  
College Algebra II  
Polynomial functions. MAT151AA, MAT151AB, MAT151AC and MAT151AD together are equivalent to MAT151. May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187. Prerequisites: Grade of "C" or better in MAT151AA.
- MAT151AC** 1 Credit  
College Algebra III  
Exponential and logarithmic functions. MAT151AA, MAT151AB, MAT151AC and MAT151AD together are equivalent to MAT151. May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187. Prerequisites: Grade of "C" or better in MAT151AB.
- MAT151AD** 1 Credit  
College Algebra IV  
Systems of equations and inequalities; matrices; sequences and series. MAT151AA, MAT151AB, MAT151AC and MAT151AD together are equivalent to MAT151. May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187. Prerequisites: Grade of "C" or better in MAT151AC.
- MAT152** 3 Credits  
College Algebra  
Relations and functions; polynomial functions; exponential and logarithmic functions; systems of equations and inequalities; matrices; sequences and series. May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187. Prerequisites: Grades of "B" or better in MAT120, MAT121, MAT122, or equivalent, or a satisfactory score on district placement exam.
- MAT156** 3 Credits  
Theory of Elementary Mathematics  
Investigation and study of mathematical content with an emphasis on mathematical processes of reasoning and communication. Includes number systems, geometry, problem solving, algebra, measurement, elementary statistics, and probability. Designed to meet the requirements for preservice elementary school teachers. Prerequisites: Grade of "C" or better in MAT120 or MAT121 or MAT122 or equivalent, or satisfactory score on district placement exam.
- MAT167** 3 Credits  
Elements of Statistics  
Basic concepts and applications of statistics, including data description, estimation and hypothesis tests. Prerequisites: Grade of "C" or better in MAT150, or MAT151, or MAT152, or equivalent, or satisfactory score on district placement exam.
- MAT172** 3 Credits  
Finite Mathematics  
An introduction to the mathematics required for the study of social and behavioral sciences. Includes sets, combinatorics, probability, matrix algebra, linear programming and mathematics of finance. Prerequisites: Grade of "C" or better in MAT150, or MAT151, or MAT152, or equivalent, or satisfactory score on district placement exam.
- MAT182** 3 Credits  
Plane Trigonometry  
A study of measures of angles, properties of graphs of trigonometric functions, fundamental identities, addition and half-angle formulas, inverse trigonometric functions, solutions of trigonometric equations, complex numbers and properties of triangle solution. May receive credit for only one of the following: MAT182 or MAT187. Prerequisites: Grade of "C" or better in MAT150, or MAT151, or MAT152, or equivalent, or concurrent registration in MAT150, or MAT151, MAT152, or satisfactory score on district placement exam.
- MAT187** 5 Credits  
Precalculus  
A precalculus course combining topics from college algebra and trigonometry. Preparation for analytic geometry and calculus. May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187. Prerequisites: Grade of "B" or better in MAT120, or MAT122, or equivalent, or satisfactory score on a placement exam. Strongly recommended that students have some knowledge of trigonometry.
- MAT212** 3 Credits  
Brief Calculus  
An introduction to the theory, techniques and applications of the differential and integral calculus of elementary functions with problems of interest to students in business and the social sciences. Prerequisites: Grade of "C" or better in

MAT150, or MAT151, or MAT152, or equivalent, or satisfactory score on district placement exam.

**MAT220** 5 Credits  
**Analytic Geometry and Calculus I**

Topics from analytic geometry with special emphasis on inequalities and absolute value expressions, limits, continuity, the fundamental principles and formulae for differential and integral calculus along with their applications to geometry and mechanics, the mean value theorems and the fundamental theorem of calculus. May receive credit for only one of the following: MAT220 or MAT221. Prerequisites: Grade of "C" or better in (MAT150, or MAT151, or MAT152), and MAT182, or MAT187, or equivalent, or satisfactory score on district placement exam.

**MAT221** 4 Credits  
**Calculus with Analytic Geometry I**

Real numbers, limits, continuity, differential and integral calculus of functions of one variable. May receive credit for only one of the following: MAT220 or MAT221. Prerequisites: Grade of "C" or better in (MAT150, or MAT151, or MAT152), and MAT182, or MAT187, or equivalent, or satisfactory score on district placement exam.

**MAT231** 4 Credits  
**Calculus with Analytic Geometry II**

Methods of integration, applications of calculus, elements of analytic geometry, improper integrals, sequences and series. May receive credit for only one of the following: MAT230 or MAT231. Prerequisites: Grade of "C" or better in MAT220 or MAT221 or equivalent.

**MAT241** 4 Credits  
**Calculus with Analytic Geometry III**

Vector-valued functions of several variables, multiple integration, introduction to vector analysis. Prerequisites: Grade of "C" or better in MAT230 or MAT231 or equivalent.

**MAT262** 3 Credits  
**Differential Equations**

Ordinary differential equations with applications including LaPlace transforms with numerical methods. Prerequisites: Grade of "C" or better in MAT230 or MAT231 or equivalent.

## ■ Music Performance

**MUP150** 1 Credit  
**Community Chorus**

A mixed chorus with emphasis on college/community participation and preparation of a variety of choral literature for public performance. Auditions may be required. May be repeated for credit. Prerequisites: None.

## ■ Music: History/Literature

**MHL141** 3 Credits  
**Appreciation and Literature of Music to 1800**

Study of primitive and medieval periods, folk music, Renaissance and Reformation and characteristics and styles of the Classic era. Prerequisites: None.

**MHL142** 3 Credits  
**Appreciation and Literature of Music 1800 to Present**

Study of the characteristics and styles of the music of the Romantic, Impressionistic and Contemporary periods. Prerequisites: None.

**MHL145** 3 Credits  
**American Jazz and Popular Music**

The study of cultural and social contributions to the evolution of American jazz and popular music from the mid-1800's to present. Prerequisites: None.

**MHL153** 3 Credits  
**Rock Music and Culture**

History of Rock music and how cultural, social, political, and economic conditions have shaped its evolution. Prerequisites: None.

## ■ Office Automation Systems

**OAS111AA** 1 Credit  
**Computer Keyboarding I**

Mastery of essential microcomputer keyboarding skills. Emphasis on touch typing of alphabetic and numeric keys and symbols. Prerequisites: None.

**OAS111AB** 1 Credit  
**Computer Keyboarding II**

Further development of microcomputer keyboard speed and accuracy. Emphasis on touch typing with speed and accuracy development of numerals as related to preparation and handling of documents. Prerequisites: BPC/OAS111AA or permission of instructor.

**OAS118** 1 Credit  
**10-Key By Touch**

Touch system of numeric keys on ten-key pads. Prerequisites: None.

**OAS250** 3 Credits  
**Office Automation Concepts**

Basic concepts of word/information processing; understanding systems approach to communication; measurement and control; future dimensions of word processing. Prerequisites: None.

## Philosophy

PHI101 3 Credits

### Introduction to Philosophy

General consideration of human nature and the nature of the universe. Knowledge, perception, freedom and determinism, and the existence of God. Prerequisites: None.

PHI105 3 Credits

### Introduction to Ethics

Major theories of conduct. Emphasis on normative ethics, theories of good and evil from Plato to the present. Prerequisites: None.

PHI243 3 Credits

### World Religions

The development of various religions from the prehistoric to modern times. Political, economic, social and geographic relationships among world religions. Consideration of both Eastern and Western religions. Prerequisites: None.

PHI298AA 1 Credit

### Special Projects

Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: None.

## Physical Education

PED101IH 1 Credit

### Physical Activities: Fitness for Life

Designed to teach students how to use appropriate techniques for assessing, writing and participating in personalized programs of Cardiovascular Fitness, Weight Control, and Muscular Strength and Flexibility. Prerequisites: None.

## Physics

PHY101 4 Credits

### Introduction to Physics

A survey of physics emphasizing applications of physics to modern life. Designed for students who need a course in physics in order to understand the physical basis of modern technology. Prerequisites: Grade of "C" or better in MAT091 or MAT092, or satisfactory score on math placement exam.

PHY111 4 Credits

### General Physics I

A noncalculus approach to the principles of general physics. Includes mechanics, fluids, sound and heat. Recommended for preprofessional and suggested for certain other majors. Prerequisites: Trigonometry or department consent.

PHY112 4 Credits

### General Physics II

Includes electricity, magnetism, optics, and modern physics. Prerequisites: PHY105 or PHY111.

## Political Science

POS100 3 Credits

### Introduction to Political Science

Introduction to the discipline of political science and its relation to other disciplines with emphasis on the major philosophies and institutions of government. Prerequisites: None.

POS110 3 Credits

### American National Government

Study of the historical backgrounds, governing principles, and institutions, of the national government of the United States. Prerequisites: None.

POS115 3 Credits

### Issues in American Politics

Examination of major issues in current affairs in the fields of politics, economics, social relations, foreign affairs, aesthetics, and others through the reading and viewing of secondary information sources. Prerequisites: ENG101 or ENG107 or equivalent.

POS120 3 Credits

### World Politics

Introduction to the principles and issues relating to the study of international relations. Evaluation of the political, economic, national, and transnational rationale for international interactions. Prerequisites: None.

POS125 3 Credits

### Issues in World Politics

Contemporary issues and factors in international relations. Stress conditions in civil order, trade, and international institutions. May be repeated for a total of six (6) credit hours. Prerequisites: None.

POS220 3 Credits

### U.S. and Arizona Constitution

Examination of the United States Constitution and the constitution and government of the State of Arizona. Prerequisites: None.

POS221 1 Credit

### Arizona Constitution

Examination of the Constitution of the State of Arizona. Equivalent to the second part of POS220. May not enroll in POS220 and POS221 concurrently. Prerequisites: None.

POS222 2 Credits

### U.S. Constitution

Examination of the United States Constitution. Equivalent to the first part of POS220. May not enroll in POS220 and POS222 concurrently. Prerequisites: None.

## ■ Professional Growth

|   |          |
|---|----------|
| <b>PGR120AB</b>   | 1 Credit |
| Elements of Agency Management:<br>Interpersonal Relationship Skills<br>Interpersonal relationship techniques used in working with social service agency clients. Prerequisites: None.   |          |
| <b>PGR120AC</b>   | 1 Credit |
| Elements of Agency Management:<br>Cultural Awareness<br>Cultural factors that effect attitudes, beliefs, values, and behaviors when communicating and interacting with social service agency clients. Prerequisites: None.  |          |
| <b>PGR120AE</b>   | 1 Credit |
| Elements of Agency Management:<br>Written Communication Skills<br>A study of written Communication with particular emphasis on skills required in agency management. Includes outlining, summarizing, report writing and proper punctuation. Prerequisites: None. |          |
| <b>PGR121</b>   | 1 Credit |
| Employee Development:<br>Time and Money Management<br>Techniques for managing time and money. Establishing short and long-term goals for personal financial management and time management. Prerequisites: None.  |          |
| <b>PGR122</b>   | 1 Credit |
| Employee Development: Effective Communication<br>Techniques for effective business communications. Includes outlining, summarizing and report writing. Also covers active listening techniques and common barriers to the listening process. Prerequisites: None. |          |

## ■ Psychology

|  |           |
|--|-----------|
| <b>PSY101</b>  | 3 Credits |
| Introduction to Psychology<br>To acquaint the student with basic principles, methods and fields of psychology such as learning, memory, emotion, perception, physiological, developmental, intelligence, social and abnormal. Prerequisites: None.                           |           |
| <b>PSY125</b>  | 3 Credits |
| Leadership and Group Dynamics<br>Practical experience and theory in effective leadership and group problem solving. Includes principles of group dynamics and theory of shared leadership. Prerequisites: None.  |           |
| <b>PSY211</b>  | 3 Credits |
| Crisis Management<br>Provides training in crisis management for emergency medical technicians. Includes personal management of stress, medical emergencies, rape, suicide, death and dying. Prerequisites: PSY101 with a grade of "C" or better or permission of instructor. |           |

|  |           |
|--|-----------|
| <b>PSY230</b>  | 3 Credits |
| Introduction to Statistics<br>An introduction to basic concepts in descriptive and inferential statistics, with emphasis upon application to psychology. Consideration given to the methods of data collection, sampling techniques, graphing of data, and the statistical evaluation of data collected through experimentation. Required of psychology majors. Prerequisites: PSY101 with a grade of "C" or better and MAT092 or equivalent, or permission of instructor. |           |
| <b>PSY240</b>  | 3 Credits |
| Developmental Psychology<br>Human development from conception through adulthood. Includes: physical, cognitive, emotional and social capacities that develop at various ages. Recommended for students majoring in nursing, education, pre-med, and psychology. Prerequisites: PSY101 with a grade of "C" or better or permission of the instructor.   |           |
| <b>PSY245</b>  | 3 Credits |
| Psychology of Adult Development<br>Deals with adults in general as well as adults at three life stages: early, middle, and later adulthood. Characteristics, lifestyles, activities, and problems of adults as well as current theories and research. Prerequisites: PSY101 with a grade of "C" or better, or permission of instructor.  |           |
| <b>PSY250</b>  | 3 Credits |
| Social Psychology<br>The scientific study of how people's thoughts, feelings, and behaviors are influenced by other people and situations. Includes how we think about ourselves and others, persuasion and influence, sexual and romantic attraction, friendship and helping others, aggression and prejudice. Prerequisites: PSY101 with a grade of "C" or better or permission of the instructor.   |           |
| <b>PSY260</b>  | 3 Credits |
| Personality Development<br>Introduction to theories of personality with emphasis upon application of specific theories towards the understanding of individuals. Prerequisites: PSY101 with a grade of "C" or better or permission of instructor.  |           |
| <b>PSY266</b>  | 3 Credits |
| Abnormal Psychology<br>Distinguishes between normal behavior and psychological disorders. Subjects may include stress disorders, problems with anxiety and depression, unusual and abnormal sexual behavior, schizophrenia and addictive behaviors. Causes and treatments of psychological problems and disorders are discussed. Prerequisites: PSY101 with a grade of "C" or better, or permission of instructor.   |           |
| <b>PSY270</b>  | 3 Credits |
| Personal and Social Adjustment<br>Surveys the basic mental health principles as they relate to coping with stress, interpersonal relationships, sex, marriage, and working. Emphasis on learning to become a more competent and effective person. Prerequisites: PSY101 with a grade of "C" or better or permission of the instructor.   |           |

## ■ Public Administration

**PAD101** 3 Credits

### Survey of Public Administration

The history, present and future of public administration. Covers roles of public administrators, organizational relationships, intergovernmental relations and human resources as well as ethical issues, financial management, communication skills, and productivity issues. Prerequisites: None.

**PAD104** 3 Credits

### Management in the Public Sector I

Introduces concepts and techniques of modern management in government agencies. Emphasis is on supervisor-employee relationships and on goal orientation as a requisite in developing and maintaining a motivational work climate. Prerequisites: None.

**PAD107** 3 Credits

### Public Finance Administration

Basic accounting principles for state and local government. Includes budgeting, financial management, revenue fund management, performance measures, reporting and audits. Prerequisites: None.

**PAD116** 3 Credits

### Supervisory Training for DOC Employees

Overview of first line supervisory skills. Includes communication and team building skills. Emphasis on basic supervisory and leadership skills. Prerequisites: None.

**PAD122** 3 Credits

### Public Sector/Human Resources Management

Overview of human resources management in the public sector. Covers planning, staffing, training, compensating, and appraising employees in labor management relationships. Prerequisites: PAD101, or PAD103, or MGT175 or permission of instructor.

**PAD123** 3 Credits

### Management in the Public Sector II

Cover the basics of and rationale for effective employee management practices. Emphasis is on setting parameters for managing employees in the public sector. Prerequisites: PAD104. Not open to students with credit in PAD121.

**PAD125** 3 Credits

### Leadership in the Public Sector

Overview of leadership skills in public administration. Includes leadership characteristics, behavioral styles, communication skills, performance measurement systems as well as diversity and ethical issues. Dealing with troubled employees and discipline also covered. Prerequisites: None.

**PAD170** 3 Credits

### Public Sector Organizational Behavior

Basic principles of public-sector management from an organizational behavior perspective. Levels of organizational behavior: the individual, the group and the organization system emphasized. Prerequisites: None.

**PAD201** 3 Credits

### Techniques of Municipal Administration

City administration management. Covers techniques, practices and responsibilities of city staff including forces of change, administrative techniques and leadership. Prerequisites: PAD101 or PAD103 or permission of instructor.



## ■ Reading

*Includes the following prefixes: (CRE) Critical and Evaluative Reading and (RDG) Reading.*

**CRE101** 3 Credits

### Critical and Evaluative Reading I

Emphasis on applying critical inquiry skills to varied and challenging reading materials. Includes analysis, synthesis, and evaluation

through written discourse. Prerequisites: ENG101 and (reading placement test score of 41 or higher (ASSET), or grade of "C" or better in RDG091, or permission of instructor.)

**CRE111** 3 Credits

### Critical Reading for Business and Industry

Emphasis on reading skills required for success in business and technology. Includes interpretation of technical and professional materials with an emphasis on critical analysis and reading. Prerequisites: Reading ASSET test score, or grade of "C" or better in RDG091, or permission of instructor.

**RDG091** 3 Credits

### College Reading Skills I

Designed to improve basic reading and study skills, vocabulary and comprehension skills. Recommended to all students whose placement test scores indicate a need for reading instruction. Prerequisites: Reading placement test score (ASSET), or grade of "C" or better in RDG081, or permission of instructor.

**RDG105** 2 Credits

### Speed Reading

Development of skills that result in increased reading speed while maintaining satisfactory comprehension of a variety of materials. Prerequisites: A grade of "C" or better in RDG091 or permission of instructor.

## ■ Religious Studies

**REL243** 3 Credits

### World Religions

The development of various religions from the prehistoric to modern times. Political, economic, social and geographic relationships among world religions. Consideration of both Eastern and Western religions. Prerequisites: None.



## ■ Sign Language

SLG090AA 1 Credit  
Speedy Sign Language I

Introduction of techniques for communicating with deaf people using American Sign Language (A.S.L.). Expressive and receptive sign skills, manual alphabet, numbers, and basic sign vocabulary. Prerequisites: None. Suggested but not required: SLG103.

SLG101 4 Credits  
American Sign Language I

Introduction of principles, methods, and techniques for communicating with deaf people who sign. Development of expressive and receptive sign skills, manual alphabet, numbers, and sign vocabulary. Overview of syntax, grammar, and culture related to American Sign Language (A.S.L.). Prerequisites: None. SLG103 suggested as a corequisite but not required.

SLG102 4 Credits  
American Sign Language II

Continued development of knowledge and language skills for communicating with deaf people who sign. Includes numbers, fingerspelling, and culture. Emphasis on enhancement of receptive sign skills and continued development of expressive sign skills. Application of rudimentary, syntactical, and grammatical structure stressed with continued development of sign vocabulary. Prerequisites: SLG101, with a grade of "C" or better, or permission of department/division. SLG110 suggested as a corequisite but not required.



## ■ Sociology

SOC101 3 Credits  
Introduction to Sociology  
Fundamental concepts of social organization, culture, socialization, social institutions and social change. Prerequisites: None.

SOC110 3 Credits  
Drugs and Society  
Explores drugs as a social problem. Examines social-cultural factors contributing

to use and abuse and effects of commonly used drugs on the individual and society. Reviews current theories and research relating to drug use. Explores prevention, intervention, and treatment. Examines public policies concerning drug related issues. Prerequisites: None.

SOC140 3 Credits  
Racial & Ethnic Minorities

Contemporary racial and ethnic intergroup relations emphasizing cultural origins, developments, and problems of minority groups in the United States. Prerequisites: None.

SOC157 3 Credits  
Sociology of Marriage & Family  
The study of courtship, marriage, and family patterns, their historical development, their adaptation to a changing culture, and their impact on individuals. Prerequisites: None.

SOC212 3 Credits  
Women and Men in a Changing Society  
A study of the way culture shapes and defines the positions and roles of both men and women in society. Major emphasis on social conditions which may lead to a broadening of sex roles and a reduction of sex-role stereotypes and the implications of these changes. Open to both men and women. Prerequisites: None.

SOC245 3 Credits  
Social Deviance  
A sociological analysis of social deviance including a review of theories, individual and social implications of deviant labeling, and relevant aspects of social control. Prerequisites: SOC101.

SOC251 3 Credits  
Social Problems  
A sociological exploration of selected social problems. Emphasis on current concerns. Prerequisites: SOC101.

## ■ Spanish

SPA101 4 Credits  
Elementary Spanish I  
Basic grammar, pronunciation and vocabulary of the Spanish language. Includes the study of the Spanish-speaking cultures. Practice of listening, speaking, reading, and writing skills. Prerequisites: None.

SPA102 4 Credits  
Elementary Spanish II  
Continued study of grammar and vocabulary of the Spanish language and study of the Spanish-speaking cultures. Emphasis on speaking, reading, and writing skills. Prerequisites: SPA101 or departmental approval.

SPA109 4 Credits  
Law Enforcement Spanish I  
Conversational and written Spanish for law enforcement personnel. Includes basic sentence structure, pronunciation, vocabulary practice, speaking, listening, reading and basic writing ability in common job-related situations. Prerequisites: None.

SPA115 3 Credits  
Beginning Spanish Conversation I  
Conversational Spanish. Basic sentence structure, pronunciation and vocabulary necessary to develop speaking ability in Spanish. Designed for students seeking speaking and listening abilities with little emphasis on grammar. Prerequisites: None.

Spanish • Theatre/Performance/Production • Total Quality Management

**SPA116** 3 Credits  
**Beginning Spanish Conversation II**  
 Continued development of speaking and listening skills for effective communication in Spanish. Prerequisites: SPA115 or departmental approval.

**SPA201** 4 Credits  
**Intermediate Spanish I**  
 Continued study of essential Spanish grammar and Spanish-speaking cultures. Continued practice and development of reading, writing, and speaking skills in Spanish. Emphasis on fluency and accuracy in spoken Spanish. Prerequisites: SPA102, two years of high school Spanish, or departmental approval.

**SPA202** 4 Credits  
**Intermediate Spanish II**  
 Review of grammar, continued development of Spanish language skills with continued study of the Spanish-speaking cultures. Prerequisites: SPA201 or departmental approval.

**SPA209** 3 Credits  
**Intermediate Spanish for Law Enforcement**  
 Conversational and written Spanish. Intermediate sentence structure and vocabulary practice that is law enforcement specific. Intermediate level speaking, listening, reading and writing ability in common job-related situations. Course conducted in Spanish. Prerequisites: A grade of "B" or better in SPA005AA and SPA109 or permission of instructor.

**SPA217** 4 Credits  
**Spanish for Business Communication**  
 General business terminology, situations and correspondence in Spanish, including sections on cultural differences that can affect business transactions. Various specific business situations in Latin America and Spain contrasted with similar situations in the USA. Prerequisites: GBS151 and either SPA201 or permission of instructor.

**SPA225** 3 Credits  
**Intermediate Spanish Conversation I**  
 A continuation of SPA116. Continued development of skills in conversational Spanish. A review of the major grammatical and pronunciation problems. Prerequisites: SPA116, or SPA102 or departmental approval.

**SPA226** 3 Credits  
**Intermediate Spanish Conversation II**  
 A continuation of SPA225. Continued development of skills in conversational Spanish with a review of grammatical problems. Prerequisites: SPA225, two years Spanish or the equivalent or departmental approval.

**SPA265** 3 Credits  
**Advanced Spanish I**  
 Introduction and study of Spanish and Spanish-American literature. Selected readings from most Spanish-speaking countries. All discussions, oral reports, and written assignments are in Spanish. Prerequisites: SPA202 or departmental approval.

**SPA266** 3 Credits  
**Advanced Spanish II**  
 Further study of Spanish and Spanish-American literature. Reading selections from most Spanish-speaking countries. All oral reports, discussions, and written reports in Spanish. Graduated level of difficulty from the literature studied in SPA265. Prerequisites: SPA265 or departmental approval.

**SPA282AC** 3 Credits  
**Volunteerism for Spanish: A Service Learning Experience**  
 Service-learning field experience within private/public agencies, and citizen volunteer groups. May be repeated for a total of four (4) SPA282 credit hours. Standard grading available according to procedures outlined in catalog. Prerequisites: Permission of instructor.

**SPA298AA** 1 Credit  
**Special Projects**  
 Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: None.

■ **Theatre**

**THE205** 3 Credits  
**Introduction to Cinema**  
 Survey of the history and development of the art of motion pictures, including criticism of aesthetic and technical elements. Prerequisites: None.

**THE210** 3 Credits  
**Contemporary Cinema**  
 A study of contemporary films, directors and critics with emphasis on evaluating film as an art form. Prerequisites: None.



■ **Total Quality Management**

**TQM101** 3 Credits  
**Quality Customer Service**  
 Examines the nature of quality customer service and the attitudes, knowledge, and skill needed to work effectively in a quality customer service environment. Foundation skills for quality customer services are taught, applied, and practiced. Prerequisites: None.

**TQM105** 2 Credits  
**Writing For Quality Results**  
 Theory and practice of writing business correspondence in a quality-oriented organization. Includes the orientation of the

Total Quality Management • Travel Agent Technology

writer to the internal/external customer's needs and writing in positive, negative and persuasive settings. Prerequisites: Appropriate English placement test score in ENG101, or "C" or better in ENG071. OAS108 and TQM101 or TQM101AA and TQM101AB are recommended.

**TQM200** 2 Credits

**Leadership for Front-Line Employees**

Methods of traditional management concepts and their application to a quality oriented environment for the front-line employee. Covers planning, goal-setting, problem-solving, motivation, time management, adaptability, flexibility and dependability in a quality setting. Prerequisites: None. TQM101 or TQM101AA and TQM101AB are recommended.

**TQM201** 2 Credits

**Total Quality Concepts**

Examines the concepts of quality as they relate to service, products and the employee. Focuses on the history, rationale and basic principles of Total Quality. Recognizes the scope and requirements for a Total Quality development effort. Prerequisites: None.

**TQM204** 3 Credits

**Team Roles and Dynamics**

Focuses on basic concepts and tools associated with quality improvement to help teams function effectively. Participants use theory and practice to work as a team, plan, and conduct good meetings, manage logistics and details, gather useful data, analyze the data, communicate clearly and persuasively ideas and results with confidence and impact, and implement change. Prerequisites: None.

**TQM205** 2 Credits

**Managing Diversity**

Explores managing diversity in quality-oriented organizations. Addresses the issues of diversity impacting the workplace and emphasizes methods of mediating and enhancing interactions. Prerequisites: None. TQM201 is recommended.

**TQM214** 2 Credits

**Principles of Process Improvement**

Examines the concepts and tools of quality/continuous improvement. Includes mapping processes, statistical measurement, problem-solving tools and methods of presenting findings, evaluating, and implementing changes. Prerequisites: None. TQM201 is recommended.

**TQM220** 2 Credits

**Leadership and Empowerment Strategies**

Methods for facilitating teams and empowering employees, which effectively enable all employees to act upon a shared vision. Prerequisites: None. TQM201 is recommended.

**TQM230** 2 Credits

**Teamwork Dynamics**

Theory and practice of how team members and team leaders use listening, negotiating and interpersonal skills for the enhancement of team process. Included are concepts of

team development and team problem-solving techniques. Prerequisites: None. TQM201 is recommended.

**TQM235** 2 Credits

**Motivation, Evaluation, and Recognition Systems**

Presents methods for benchmarking, assessing team performance, linking recognition to team performance, and valuing victories and mistakes with all personnel. Prerequisites: None. TQM201 is recommended.

**TQM240** 2 Credits

**Project Management in Quality Organizations**

Presents methods for quality organizations in how to plan and schedule a project in use of Critical Path Method (CPM) and Program Evaluation and Review Technique (PERT) techniques and software to monitor and control projects. Prerequisites: None. TQM201 is recommended.

**TQM290AA** 1 Credit

**TQM Internship**

Quality Process Leadership experience in an organizational setting. Eighty (80) hours of work and seminar activities. Prerequisites: TQM201, TQM214, TQM220, TQM230, TQM235, TQM240, or departmental approval.

**TQM292** 1 Credit

**Innovation Strategies**

Identification of the attitudes, knowledge and skills needed to challenge the process and initiate change in an organization. Includes the analytical skill required for creativity as well as methods for innovative thinking. Prerequisites: TQM290AA or departmental approval.



**Travel Agent Technology**

**TVL113** 2 Credits

**Introduction to the Travel Industry**

Travel customer booking procedures. Includes communication skills, fare quotes and sale closure. Also covers

special services and shipping procedures. Prerequisites: None.

**TVL115** 2 Credits

**Car and Hotel Reservations**

Procedures for making car and hotel reservations. Includes special programs and preferred properties as well as manual car and hotel segments. Prerequisites: None.

**TVL117** 3 Credits

**Travel Industry Reservations**

Ticketing and documentation procedures. Covers multiple Passenger Name Records, air modifications, reservations, and meeting management procedures. Also includes Spanish and non-employee reservations, procedures for special services, air shuttles and Amtrak. Prerequisites: Departmental approval.

Travel Agent Technology • Utilities Customer Service

**TVL119** 3 Credits  
**Travel Industry Reservations Lab**  
 Customer service experience in the travel industry. Includes airline, car and hotel reservations as well as Amtrak. Also covers fare calculation, rule usage and documentation in addition to ticketing and special services. Prerequisites and/or Corequisites: TVL117.



■ **Utilities Customer Service**

**UCS101** 3 Credits  
**Introduction to Billing**

An introduction to basic billing procedures in the public utility industry. Includes computer familiarization, coordinates system, billing cycle, payment plans, and components of the bill. Prerequisites: None.

**UCS104** 1 Credit  
**Public Utility Customer Service**

Overview of customer service concepts. End-result benefits, customer satisfaction system, and problem solving emphasized. Behavior styles also covered. Prerequisites: None.

**UCS105** 2 Credits  
**Introduction to Public Utility**

Introduction to the public utility customer service operations. Emphasis on public utility workstation components and usage procedures. Covers customer service, documentation, and confidentiality policies. Also includes ergonomic, service area geography, hazardous material, and emergency procedure information. Prerequisites: None.

**UCS108** 1 Credit  
**Account Services for Public Utilities**

Overview of procedures for accessing and maintaining customer accounts. Includes the billing cycle, rates and payment options as well as various types of service orders. Prerequisites: Departmental approval.

**UCS110** 2 Credits  
**Meter and Trouble Orders**

Fundamentals of meters and their functions. Instruction on providing meterchecks, handling trouble calls and determining and processing corrective action. Wind machines and security lights will be discussed. Prerequisites: None.

**UCS120** 3 Credits  
**Payments, Credits and Rates**

Examination of procedures to perform payment, deposit and credit operations. Includes various connect orders and rate calculations. Prerequisites: None.

**UCS122** 3 Credits  
**Public Utility Orders**

Procedures for processing public utility customer requests. Emphasis on determining billing options, service plans,

and payment procedures. Covers new account establishment and field activity order processing. Also includes meter exchange, rate change, trouble and outage order, and deregulation information. Prerequisites: UCS105.

**UCS124** 3 Credits  
**Public Utility Orders Lab**

Practical application in processing public utility customer orders. Emphasis on using workstation and software applications. Covers shut-off, trouble, and outage orders as well as the creation of new accounts. Also covers order modification, payment options, service plan and deposit requirements, and meter reading provisions. Prerequisites or Corequisites: UCS122.

**UCS126** 2 Credits  
**Public Utility Service Practices**

Application of public utility customer service practices. Covers account and service plan enrollment, modifications, and cancellations. Includes account handling exceptions and service area geography. Computer usage emphasized. Prerequisites or Corequisites: UCS124.

**UCS130** 3 Credits  
**Service Orders I**

Fundamentals of processing service orders. Emphasis on customer service, making determinations of services required and placing appropriate orders. Prerequisites: None.

**UCS132** 3 Credits  
**Advanced Public Utility Processing**

Procedures for processing public utility customer requests. Emphasis on collection procedures, customer service, and energy usage analysis. Covers payment plans, rebilling, and miscellaneous charge procedures. Also includes deregulation and energy saving tip provision information. Prerequisites: UCS124.

**UCS134** 3 Credits  
**Advanced Public Utility Processing Lab**

Practical application in processing public utility customer requests. Includes collection and documentation procedures as well as consumption rate and deregulation. Meter reads and billing adjustments also covered. Prerequisites or Corequisites: UCS132.

**UCS135** 2 Credits  
**Service Orders II**

Further examination of the processing of service orders. Emphasis on customer account data, account status, third party billings and placing appropriate orders. Prerequisites: UCS130.

**UCS140** 2 Credits  
**Service Order Procedures**

Practical application of service order processing. Includes meter and trouble orders, requests for service, billings and rates. Prerequisites: UCS135.

## ■ Water/Wastewater Management

**WWM106** 3 Credits  
**Small Water System Operation and Maintenance**

Overview of safe and effective operation and maintenance of small drinking water systems and treatment plants. Also covers wells, pumps, disinfection and setting water rates. Prerequisites: None.

**WWM110** 3 Credits  
**Principles of Water Treatment Plant Operations**

Principles in the safe and effective operation and maintenance of drinking water treatment plants, reservoir management and intake structuring. The source of water, basic water laboratory test procedures and calculations also covered. Prerequisites: None.

**WWM112** 3 Credits  
**Basic Water Treatment Processes**

Exploration of the processes used in the treatment of water. Principles of coagulation and flocculates, sedimentation, and disinfection explored. Also includes operation of equipment used in water treatment, prevention of corrosion, and taste and odor control. Prerequisites: WWM110.

**WWM114** 3 Credits  
**Mineral Control**

Operation and maintenance processes in the treatment for iron, manganese, hardness, trihalomethanes and minerals. The importance of fluoridating drinking water and water softening. Prerequisites: WWM110 or WWM112.

**WWM116** 3 Credits  
**Water Treatment Plant Administration**

Administration safety and maintenance of a water treatment plant. Handling and disposal of process wastes, instrumentation use, laboratory procedures, drinking water regulations. Prerequisites: WWM114.

**WWM120** 3 Credits  
**Operation of Wastewater Treatment Plants**

Safe and effective operation and maintenance of wastewater treatment plants. Overview of treatment processes and laboratory testing used in wastewater treatment plants. Principles and processes involved in waste treatment ponds, disinfection and chlorination process. Prerequisites: None.

**WWM122** 3 Credits  
**Basic Wastewater Treatment Processes**

Exploration of the processes used in the preliminary treatment of wastewater. Operation of equipment used in wastewater treatment, principles of sedimentation and flotation, trickling filters, biological contactors, and activated sludge also included. Prerequisites: WWM120.

**WWM124** 3 Credits  
**Sludge and Solids Handling**

Exploration of conventional activated sludge plant operations including principles of activated sludge and sludge digestors used in wastewater treatment. Laboratory procedures and effluent disposal included. Prerequisites: WWM120 or WWM122.

**WWM126** 3 Credits

**Wastewater Plant Administration**

Administrative responsibilities in operating a wastewater plant including safety and maintenance. Emphasis on laboratory procedures, reporting data in reports and graphs and recordkeeping. Prerequisites: WWM124.

**WWM130** 3 Credits

**Wastewater Collection Systems Operation and Maintenance**

Overview of wastewater collection systems with an emphasis on inspection and cleaning of sewer systems. Safety considerations, maintenance and underground repair procedures also covered. Prerequisites: None.

**WWM132** 3 Credits

**Wastewater Collection Systems Administration**

Overview of administrative duties of operating a wastewater collection system. Principles of lift stations, equipment maintenance and sewer rehabilitation also covered. Prerequisites: WWM130.

**WWM134** 3 Credits

**Water Distribution System Operation and Maintenance**

Safe and effective operation and maintenance of water distribution systems. Water contaminants, disinfection and chlorination in addition to development of a plant safety plan. Prerequisites: None.

**WWM240** 3 Credits

**Industrial Wastewater Treatment Regulations**

Introduction to industrial wastewater management. Emphasis on the various Federal and local regulations governing industrial discharges and pollution control. Types of contaminants found in industrial wastewater and their effects on wastewater collection, treatment and disposal systems. Prerequisites: WWM126.

**WWM252** 3 Credits

**Pretreatment Facilities Inspection**

Exploration of procedures used to conduct on-site inspections of industrial pretreatment facilities. Emphasis on sampling, flow monitoring and pretreatment technology. Prerequisites: WWM250.

**WWM285** 1 Credit

**Special Topics in Water/Wastewater Treatment**

Special topics in water and wastewater management. May be repeated. Prerequisites: Departmental approval.

## ■ Wellness Education

**WED156** 1 Credit

**Humor and Play**

Physiological, psychological, emotional, and intellectual effects of humor and play; suggestions for planning periods of play and incorporating it into one's life. Prerequisites: None.

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## Rio Salado Major Locations

Rio Salado College Administrative Offices\*  
2323 West 14th Street, Tempe, AZ 85281  
(480) 517-8000

Rio Phoenix – 7th Avenue\*\*  
619/621 North 7th Avenue, Phoenix, AZ 85007  
(480) 517-8030

Sun Sounds\*\*  
3124 East Roosevelt, Phoenix, AZ 85008  
(602) 231-0500

KJZZ/KBAQ Radio Stations\*\*  
1435 South Dobson Road, Mesa, AZ 85202  
(480) 834-5627

Rio School of Dental Hygiene\*\*  
1150 East Washington, Phoenix, AZ 85006  
(480) 517-8020

Rio West Valley — 56th Support Center  
7383 North Litchfield Road, Glendale, AZ 85309  
*(two blocks north of Glendale Avenue on Litchfield Road)*  
(480) 517-8780

Rio Sun Cities Lifelong Learning Center  
12535 Smokey Drive, Surprise, AZ 85374  
*(just south of Bell Road)*  
(480) 517-8770

Rio Paradise Valley  
4550 East Cactus Road, Phoenix, AZ 85032  
*(above the food court)*  
(480) 517-8760

Rio East Valley  
1455 South Stapley Drive, Suite 15, Mesa, AZ 85204  
*(just north of the Superstition Highway)*  
(480) 517-8050

\* Cash payments are only accepted at Rio Salado's Administrative Offices.

\*\* Class registration is not available at KJZZ/KBAQ Sun Sounds, School of Dental Hygiene, or Rio Phoenix - 7th Avenue.

For more information on  
Rio Salado College, call  
(480) 517-8540  
or visit our home page at  
<http://www.rio.maricopa.edu>



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## Valley-Wide Class Locations

Apollo High School  
8045 North 47th Avenue, Glendale

Carson Junior High School  
525 North Westwood, Mesa

Central High School  
4525 North Central Avenue, Phoenix

Dobson High School  
1501 West Guadalupe, Mesa

Greenway High School  
3930 West Greenway, Phoenix

McClintock High School  
1830 East Del Rio, Tempe

Mesa High School  
1680 East Southern, Mesa

Paradise Valley High School  
3950 East Bell Road, Phoenix

Phoenix College  
1202 West Thomas Road, Phoenix

Rio East Valley  
1455 South Stapley Drive, Suite 15, Mesa  
*(just north of the Superstition Highway)*

Rio Paradise Valley  
4550 East Cactus Road, Phoenix  
*(above the food court)*

Rio Phoenix – 7th Avenue  
619/621 North 7th Avenue, Phoenix

Rio Sun Cities Lifelong Learning Center  
12535 Smokey Drive, Surprise  
*(just south of Bell Road)*

Rio Tempe  
2323 West 14th Street, Tempe

Rio West Valley (Luke Air Force Base)  
56th Support Center  
7383 North Litchfield Road, Glendale  
*(two blocks north Glendale Avenue on Litchfield Road)*

Seventh Day Adventist Church  
5900 East Camelback Road, Scottsdale

Sunnyslope High School  
35 West Dunlap Avenue, Phoenix

Washington High School  
2217 West Glendale Avenue, Phoenix

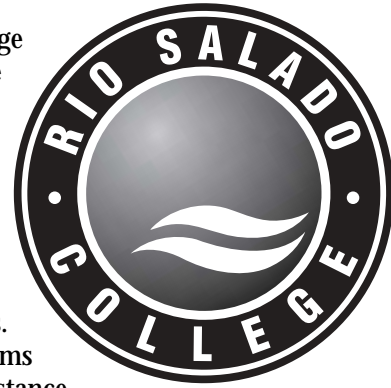
Westwood High School  
945 West 8th Street, Mesa

## Vision Statement

Through living our values, Rio Salado College creates a climate of high expectations for the success of our students, customers and employees.

## Mission Statement

As an institution of higher education placing high value on student learning, Rio Salado College creates convenient, high-quality learning opportunities for diverse populations. We specialize in customized, unique programs and partnerships, accelerated formats and distance delivery. In all that we do, we pursue continuous improvement and innovation, and we challenge the limits of tradition.



## Purposes

Serving our local, national and international communities, we provide:

1. General education and courses for university transfer.
2. Applied programs that are aligned with workforce needs in business, industry and government.
3. Adult basic education.
4. Comprehensive student services.
5. Cultural enrichment and community service.
6. Continuing education and lifetime learning opportunities.

## Pride Factors

We take great pride in providing programs and services that are characterized by:

- *Quality*
- *Convenience*
- *Timeliness*
- *Accuracy*
- *Innovation*

## Core Values

We are unalterably committed to demonstrating the following core organizational values:

- *Learning*
- *Customer Focus*
- *Assessment/Continuous Improvement*
- *Teamwork*
- *Professionalism*
- *Diversity*

## Learning First: The Assessment Philosophy of Rio Salado College

Rio Salado College focuses on assessment-directed improvement for increasing student learning and improving the teaching and learning process. We believe that

- 1) learning is the primary purpose of assessment;
- 2) assessment should lead to improvement and not be an end unto itself; and
- 3) that faculty and students who understand the value of assessment and participate in assessment activities benefit most from this work.

Therefore, the college expects every individual to participate fully in this effort.