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

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,

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
Rio Salado College

Administration
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Dean of Instruction
James Van Dyke, Ph.D.
Dean of Applied Programs
Todd Simmons, M.Ed., C.P.A.
Dean of Administrative Services
Karen L. Mills, Ed.D.
Senior Associate Dean of Instruction
Carol W. Ilson, M.A.
Senior Associate Dean of Applied Programs
Sylvia Hantla, M.A.
Associate Dean of Student Services
Mary Rodes, M.A.
Associate Dean of Marketing
Barbara Poe, M.S.
Director of Admissions & Records
Mary Hannaman, M.S.
Administrative Director of Adult Basic Education & Transition
Monica Zontanos, M.A.
Administrative Director of Faculty Services
Carl Matthusen, M.A.
General Manager of KJZZ/KBAQ

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Lorelei Wood, B.S., M.A., Northern Arizona University.

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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 Field Training
Public Safety Technology
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Telecommunications: Customer Service
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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.

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/

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.
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.
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 (AB). 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. 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 ENG 101, 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.

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 (ENG 101 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

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<thead>
<tr>
<th>Problems</th>
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<th>Who to Contact</th>
</tr>
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<td>Academic Advising</td>
<td>480-517-8540</td>
<td>Student Services</td>
</tr>
<tr>
<td>Academic Appeal</td>
<td>480-517-8381</td>
<td>Faculty Department</td>
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<tr>
<td>Accident at Site</td>
<td>480-517-8200</td>
<td>Campus Security</td>
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<td>Complaints &amp; Grievances (staff)</td>
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<td>Associate Dean of Student Services</td>
</tr>
<tr>
<td>Complaints &amp; Grievances (Grades/class/instructors)</td>
<td>480-517-8381</td>
<td>Fast Team or Department Chair or Department Chair</td>
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<tr>
<td>Computer Assistance</td>
<td>480-517-8600</td>
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<td>Name Change</td>
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<td>Parking Tickets</td>
<td>480-517-8200</td>
<td>Security</td>
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### Visit our web pages

- **Homepage**
  - [http://www.rio.maricopa.edu/](http://www.rio.maricopa.edu/)
- **Career Services**
  - [http://www.rio.maricopa.edu/career](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/](http://www.rio.maricopa.edu/services/student/)
- **Registration Online**
  - [http://www.rio.maricopa.edu/services/student/enrollment/registration/](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/](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](http://www.rio.maricopa.edu).

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

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<th>Topic Description</th>
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<td>Arizona General Education Curriculum (AGEC)</td>
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<td>45031</td>
<td>Associate in Arts Degree</td>
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<tr>
<td>45032</td>
<td>Associate in Business Degree</td>
</tr>
<tr>
<td>45033</td>
<td>Associate in Science Degree</td>
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... converting your home, car, office or favorite park into a college.

Thousands of students and working adults have done just that with distance learning through Rio Salado College.

Instead of meeting in a classroom on a specific day and time, distance learning classes meet anytime and anyplace you wish.

You take them through the Internet, 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 for more information.

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endless possibilities

480-517-8540
www.rio.maricopa.edu
more.info@riomail.maricopa.edu
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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
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 MCCCD 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...
within a designated “decision zone” must receive advise-
ment to aid the student in selecting a course(s).
A S S E T / C O M P A S S 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 recommend-
ed 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 place-
ment within the M aricopa Community C olleges:
• A ll colleges shall use the same assessment instruments.
• A ll colleges shall adhere to the same cut-off scores.
• T he 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 A S S E T assess-
ment site).
• A assessment scores, with the exception of the read-
ing exemption, will be valid for two years from the
date of the original or re-test assessment.

Note: T he D ean of Student Services or designee may
approve re-testing for students with special needs or cir-
cumstances. T he re-test date will then serve as the date
of record.

Evaluation
T he M aricopa Community Colleges will provide an
ongoing evaluation of the assessment and placement
process. A n annual report shall be submitted to the
G overning Board to indicate the policy’s effectiveness
noting the number of students assessed, their place-
ment scores and their success in courses. E very three
years a thorough review of the policy and procedures
shall be implemented, including recommendations
from the E nglish, R eading and M ath Instructional
Councils regarding cut-off scores.

Bookstore
Rio Salado’s Bookstore is located at South M ountain Com-
munity College at 7050 South 24th Street, Phoenix, in the
Student Services Building.
Books may be purchased by phone and shipped by U P S
within 3-5 days for an additional shipping fee or delivered free
to any M CCCD C ampus 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 M ountain 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 MCCCD colleges for their unique programs of study. No more than 20 semester credit hours may be applied to AGEC. 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.

CONTINUED

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
Paradise Valley Mall
2323 West 14th Street
Tempe, AZ 85281
480-517-8540

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

RIO SALADO COLLEGE CATALOG 2001-2002

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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:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Score</th>
<th>Credit Hours/Equivalency</th>
</tr>
</thead>
<tbody>
<tr>
<td>English-L. Language and Composition</td>
<td>4 or 5</td>
<td>6 credit hrs/ENG 101, ENG 100 AA, AC, AD eligible for Honors ENG 102</td>
</tr>
<tr>
<td>English-L. Literature and Composition</td>
<td>4 or 5</td>
<td>6 credit hrs/ENG 101, ENH 110 eligible for Honors ENG 102</td>
</tr>
</tbody>
</table>

Math AP Recommendation:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Score</th>
<th>Credit for Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math-Calculus AB</td>
<td>3, 4 or 5</td>
<td>M AT 220 or M AT 221</td>
</tr>
<tr>
<td>Math-Calculus BC</td>
<td>3</td>
<td>M AT 220 or M AT 221</td>
</tr>
<tr>
<td>Math-Calculus BC</td>
<td>4 or 5</td>
<td>M AT 220 &amp; M AT 221, or M AT 221, MAT 230, and M AT 231 upon completion of M AT 241</td>
</tr>
<tr>
<td>Computer Science A and AB</td>
<td>4 or 5</td>
<td>CSC 100</td>
</tr>
</tbody>
</table>

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.
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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Spanish</th>
<th>French</th>
<th>German</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102</td>
<td>50-54</td>
<td>49-53</td>
<td>46-50</td>
<td>8 (101,102)</td>
</tr>
<tr>
<td>ENG 201</td>
<td>55-61</td>
<td>54-62</td>
<td>51-59</td>
<td>12 (101,102, 201)</td>
</tr>
<tr>
<td>ENG 202</td>
<td>62-80</td>
<td>63-80</td>
<td>60-80</td>
<td>16 (101, 102, 201, 202)</td>
</tr>
</tbody>
</table>

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 Examination.

CONTINUED
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 MCCCD 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 85221-6950, 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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Transcript Information
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.
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.

A 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. A 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 an equivalent 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. 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. Is under the age of 18 and has taken the appropriate courses for which he or she plans to enroll based on the 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.

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 admmissibility 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.
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
- Living Expenses: $10,400
- Books: $800
- Health Insurance: $600
- Total: $16,900

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 Lewer Mark Plus Plan required by the MCCCD.
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 MCCCD colleges is the Lewer Mark Plus Plan offered by General American Life Insurance Company through the Lewer Agency. For more information, contact the Office of Admissions and Records or designated office.
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 certificate 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.

CONTINUED

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.
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.
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:

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Foreign Government Official</td>
</tr>
<tr>
<td>E</td>
<td>Treaty Trader</td>
</tr>
<tr>
<td>G</td>
<td>Principal Resident Representative of Recognized Foreign Member Government to International Staff</td>
</tr>
<tr>
<td>H</td>
<td>Temporary Worker in Professional Nursing/Specialty/Nonagricultural Occupations</td>
</tr>
<tr>
<td>I</td>
<td>Representative of Foreign Information Media</td>
</tr>
<tr>
<td>K</td>
<td>Fiancé or Child of Fiancé of U.S. Citizen</td>
</tr>
<tr>
<td>L</td>
<td>Intracompany Transferee</td>
</tr>
<tr>
<td>N</td>
<td>Parent or Child Accorded Special Immigrant Status</td>
</tr>
<tr>
<td>O</td>
<td>Workers of “Extraordinary” Ability in Sciences, Arts, Education, Business, or Athletics</td>
</tr>
<tr>
<td>P</td>
<td>“Internationally Recognized” Entertainers &amp; Athletes, “Reciprocal Exchange” or “Culturally Unique” Artists &amp; Entertainers</td>
</tr>
<tr>
<td>Q</td>
<td>Cultural Exchange Visitors</td>
</tr>
<tr>
<td>R</td>
<td>Religious Workers</td>
</tr>
<tr>
<td>V</td>
<td>Spouses and Dependent Children of Lawful Permanent Residents</td>
</tr>
<tr>
<td>I-688</td>
<td>Employment Authorization</td>
</tr>
</tbody>
</table>

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.

CONTINUED
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) Depedency 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

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.
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:

<table>
<thead>
<tr>
<th>Credits Attempted*</th>
<th>Minimum GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-15</td>
<td>1.60</td>
</tr>
<tr>
<td>16-30</td>
<td>1.75</td>
</tr>
<tr>
<td>31-45</td>
<td>1.90</td>
</tr>
<tr>
<td>46 +</td>
<td>2.00</td>
</tr>
</tbody>
</table>

   *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.)

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

*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](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](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 Surchage: $149.00/TBD
   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 Surchage: $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 Surchage: $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 Surchage: $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 Surchage: $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 HISHE 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:
   • A pache
   • G ila
   • G reenlee
   • S anta C ru

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:

Check Returned from Bank ........................................ 15.00
Child Care Fees: (per clock hour)
   G W C C .......................... 1.50
   P V C C .......................... 2.00
   S C C .......................... 2.25
   All other colleges* .................. 1.75
* Childcare not available at RIO Salado College.

Course Materials Fee .......................... actual cost
Distance Learning Fees .......................... up to 225.00
Emergency Medical Technology (EMT)
   actual cost, not to exceed .................. 400.00
Excessive Laboratory Breakage .......................... actual cost
Field Studies ........................................ 20.00
Fitness Center ........................................ 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
(Degrees/Certificates - 25 or more credits)
non refundable ..................................... 5.00
Commencement Fee
(One time fee refundable up to
2 weeks prior to graduation) ................. 10.00

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
a parking permit ................................... 30.00
Falsifying information on vehicle
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
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,
or unauthorized off-pavement area ......... 5.00
Removing a barricade or failure to obey
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)
NAV 200, 205, 215, 225 ... 60.00
AMT .............................................. 90.00
Aviation Industry Lab .................. 50.00
AVT ............................................ 40.00

Anthropology Field School Fee
(Glendale) (non-refundable)
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 Modelng for Animation .......... 50.00
ART 186 Modelng for Digital Media ...... 50.00
ART 190 Art of West Site Design ............. 50.00
ART 192 3-D Modelng for Digital Media ... 50.00
ART 194 3-D Modelng 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)
BPC 102 A D, BD .............................. 52.00
BPC 103 A J, B J, C J, A B, B B, C B .... 52.00
BPC 104 A D, BD, C D ........................ 52.00
BPC 107, A H, B H .................. 52.00

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

The following fees apply in addition to regular lab fees:
AUT 270AA, additional fees for AUT 103A B ... 95.00
AUT 270AA, additional fees for AUT 107A C ... 65.00
AUT 270AA, additional fees for AUT 108A B ... 95.00
AUT 270AA, additional fees for AUT 109A C .... 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 A dv Routing & Switching ... 30.00
CNT 170 Cisco Project Based Learning ...... 30.00
CNT 180 Cisco Network Design .......... 30.00
CNT 200 Cisco Networking A dv Configuration .... 30.00
CNT 210 Remote - Access Networks ....... 30.00
C O M 220 M ult layer Switching ........... 30.00
C O M 230 Network Troubleshooting .... 30.00

Conservatory Theatre Fee -
Summer only (Scottsdale) .................... 100.00

Covey Training
(GateWay, Scottsdale, South Mountain)
COV 110 AA Intro to Seven Habits of Highly Effective People .... 55.00
COV 110 AB Seven Habits of Highly Effective People - Advanced A pplic .... 35.00
<table>
<thead>
<tr>
<th>Course</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Firearms Training Fee</strong></td>
<td>40.00</td>
</tr>
<tr>
<td><strong>Field Trips &amp; Out-of-County/International Tours</strong></td>
<td>35.00</td>
</tr>
<tr>
<td><strong>Culinary Arts Fee - per semester (Scottsdale)</strong></td>
<td>35.00</td>
</tr>
<tr>
<td><strong>Culinary Studies - Food &amp; Nutrition Program (Phoenix)</strong></td>
<td>40.00</td>
</tr>
<tr>
<td><strong>Dental</strong> (Rio Salado)</td>
<td>35.00</td>
</tr>
<tr>
<td><strong>Dental Hygiene</strong> (Rio Salado)</td>
<td>160.00</td>
</tr>
<tr>
<td><strong>Dental Hygiene &amp; Dental Assisting</strong> (Phoenix)</td>
<td>95.00</td>
</tr>
<tr>
<td><strong>Dental Hygiene &amp; Dental Assisting</strong></td>
<td>40.00</td>
</tr>
<tr>
<td><strong>Culinary Arts Fee</strong></td>
<td>35.00</td>
</tr>
<tr>
<td><strong>Desktop Publishing Class Fee</strong> (Scottsdale)</td>
<td>45.00</td>
</tr>
<tr>
<td><strong>Electronics</strong> (Chandler-Gilbert)</td>
<td>167.00</td>
</tr>
<tr>
<td><strong>English</strong> (GateWay)</td>
<td>62.00</td>
</tr>
<tr>
<td><strong>Equine Science</strong> (Scottsdale)</td>
<td>40.00</td>
</tr>
<tr>
<td><strong>Fire Science</strong> (Glendale)</td>
<td>100.00</td>
</tr>
<tr>
<td><strong>Fire Science</strong> (Mesa)</td>
<td>100.00</td>
</tr>
<tr>
<td><strong>Health Science</strong> (GateWay)</td>
<td>40.00</td>
</tr>
<tr>
<td><strong>Manufacturing Process Program</strong> (Mesa)</td>
<td>65.00</td>
</tr>
<tr>
<td><strong>Mathematics</strong> (Glendale)</td>
<td>62.00</td>
</tr>
<tr>
<td><strong>Mathematics</strong> (Mesa)</td>
<td>62.00</td>
</tr>
<tr>
<td><strong>Mechanical Technology</strong> (GateWay)</td>
<td>95.00</td>
</tr>
<tr>
<td><strong>Mortuary Science Program</strong> (Mesa)</td>
<td>50.00</td>
</tr>
<tr>
<td><strong>Music</strong> (Phoenix)</td>
<td>50.00</td>
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<tr>
<td><strong>Music</strong> (Scottsdale)</td>
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<td><strong>Multi-Media</strong> (Phoenix)</td>
<td>50.00</td>
</tr>
<tr>
<td><strong>Music</strong> (Scottsdale)</td>
<td>50.00</td>
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</tbody>
</table>

**CONTINUED**

**RIO SALADO COLLEGE CATALOG 2001-2002**
### FINANCIAL INFORMATION

#### Tuition and Fees • Veterans Affairs Office

<table>
<thead>
<tr>
<th>Music ( Mesa)</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>MTC 195 Studio Recording I</td>
<td>175.00</td>
</tr>
<tr>
<td>MTC 195A A Studio Recording I</td>
<td>175.00</td>
</tr>
<tr>
<td>MTC 196 Studio Recording II</td>
<td>175.00</td>
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<tr>
<td>MTC 197 Live Sound Reinforcement I</td>
<td>75.00</td>
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<tr>
<td>MTC 298 Studio Recording III</td>
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<tr>
<td>MTC 298A A Live Sound Reinforcement II</td>
<td>75.00</td>
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<tr>
<td>MUP Experimental Protocols</td>
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<table>
<thead>
<tr>
<th>Nursing ( Mesa)</th>
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<tbody>
<tr>
<td>NCE 126, 126A A, 126A B Nursing A ssisting</td>
<td>46.00</td>
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<tr>
<td>NUR 108, 109, 208, 209 Nursing Process</td>
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<tr>
<td>NUR 180, 280 Special Course Fee</td>
<td>30.00</td>
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<table>
<thead>
<tr>
<th>Nursing ( Phoenix)</th>
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<tbody>
<tr>
<td>NUR 213</td>
<td>35.00</td>
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<tr>
<td>NUR 180, 280</td>
<td>30.00</td>
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| Nursing Student - Fourth Semester ( Scottsdale) | 30.00 |

| Nursing Student Test Fee ( GatesWay) | up to 25.00 |

<table>
<thead>
<tr>
<th>Peace Officer Certification ( Scottsdale)</th>
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<tbody>
<tr>
<td>AJS 101 Peace Officer Certification I</td>
<td>100.00</td>
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<tr>
<td>AJS 202 Peace Officer Certification II</td>
<td>100.00</td>
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<tr>
<td>AJS 286 A Z Post Notebook &amp; Targets</td>
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<tr>
<td>Actual Cost</td>
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</table>

<table>
<thead>
<tr>
<th>Telecommunications Course Fees ( Scottsdale)</th>
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<tbody>
<tr>
<td>TCM 100 Digital M ultimedia</td>
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<tr>
<td>TCM 101 Fundamentals of Radio &amp; TV</td>
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<tr>
<td>TCM 104 Scriptwriting</td>
<td>150.00</td>
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<tr>
<td>TCM 111 Screenwriting I</td>
<td>150.00</td>
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<tr>
<td>TCM 111A A Screenwriting Short Film</td>
<td>150.00</td>
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<tr>
<td>TCM 112 Writing for Situation Comedy</td>
<td>150.00</td>
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<tr>
<td>TCM 114 Audio for T V</td>
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<tr>
<td>TCM 120 Intro to Sound Design for Film/Video</td>
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<tr>
<td>TCM 131A A Radio/TV A nnouncing</td>
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<tr>
<td>TCM 134 Preprod for M otion Pict &amp; TV</td>
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<tr>
<td>TCM 135 Prod for M otion Pict &amp; TV</td>
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<tr>
<td>TCM 136 Post Prod for M otion Pict &amp; TV</td>
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<tr>
<td>TCM 140 Mod ern M edia Concepts</td>
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<tr>
<td>TCM 141 M otion Picture Production</td>
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<tr>
<td>TCM 151 Broadcast Production</td>
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<tr>
<td>TCM 180A A T V Prod Techniques</td>
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<tr>
<td>TCM 211 Screenwriting II</td>
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</tr>
<tr>
<td>TCM 213 M otion Picture Workshop</td>
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</tr>
<tr>
<td>TCM 213A A M otion Pict W ksp On Loc</td>
<td>200.00</td>
</tr>
<tr>
<td>TCM 214 T V Workshop</td>
<td>150.00</td>
</tr>
<tr>
<td>TCM 215 Photography for M otion Picture</td>
<td>150.00</td>
</tr>
<tr>
<td>TCM 216 Screenwriting III</td>
<td>150.00</td>
</tr>
<tr>
<td>TCM 218 Screenwriting T V</td>
<td>150.00</td>
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<tr>
<td>TCM 235 Producing News</td>
<td>150.00</td>
</tr>
<tr>
<td>TCM 241 Non-linear E diting</td>
<td>380.00</td>
</tr>
<tr>
<td>TCM 241A A Advanced M edia Composing</td>
<td>380.00</td>
</tr>
<tr>
<td>TCM 242 Portfolio Non-linear E diting</td>
<td>100.00</td>
</tr>
<tr>
<td>TCM 243 I ntro V ideo Comp/T itle A nim</td>
<td>200.00</td>
</tr>
<tr>
<td>TCM 245 A dv M otion Picture Production</td>
<td>150.00</td>
</tr>
<tr>
<td>TCM 246 N ew M edia Production</td>
<td>150.00</td>
</tr>
<tr>
<td>TCM 251 A dvanced Studio Production</td>
<td>150.00</td>
</tr>
<tr>
<td>TCM 260 Film &amp; Video Prod &amp; Financing</td>
<td>150.00</td>
</tr>
<tr>
<td>TCM 271 A dvanced Non-linear Effects and Composing AVID</td>
<td>380.00</td>
</tr>
<tr>
<td>TCM 280 M otion Picture Post Production</td>
<td>150.00</td>
</tr>
<tr>
<td>TCM 280A A Special Projects</td>
<td>150.00</td>
</tr>
<tr>
<td>TCM 280B Special Projects</td>
<td>100.00</td>
</tr>
<tr>
<td>TCM 280C Special Projects</td>
<td>150.00</td>
</tr>
<tr>
<td><strong>Speedy Spanish</strong> (Phoenix) SPA 085 A A, A B, A C</td>
<td>100.00</td>
</tr>
</tbody>
</table>

| Virtual Reality Training ( Handler-Gilbert) VRT | 100.00 |
| W indsurfing (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.

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### Veterans Affairs Office

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

All students applying for or receiving VA educational benefits are encouraged to contact the V A O 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 V A O. 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 V A O 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

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

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

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.

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 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.

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

Rio Computer Labs are Located at:

<table>
<thead>
<tr>
<th>Location</th>
<th>Phone</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rio East Valley</td>
<td>480-517-8055</td>
<td>1455 South Stapley Dr., Suite 15, Mesa (just north of the Superstition Freeway)</td>
</tr>
<tr>
<td>Rio West Valley</td>
<td>480-517-8785</td>
<td>56th Support Center, 7383 N. Litchfield Rd., Glendale (two blocks north of Glendale Avenue, across from LAFB)</td>
</tr>
<tr>
<td>Rio Paradise Valley Mall</td>
<td>480-517-8765</td>
<td>4550 East Cactus Rd., Phoenix (above the food court)</td>
</tr>
<tr>
<td>Rio Sun Cities Lifelong Learning Center</td>
<td>480-517-8775</td>
<td>12535 Smokey Dr., Surprise (just South of Bell Road)</td>
</tr>
<tr>
<td>Rio Tempe</td>
<td>480-517-8455</td>
<td>2323 West 14th St., Tempe (third floor)</td>
</tr>
</tbody>
</table>

Open Entry/Open Exit Helpdesk  | 480-517-8450 |

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 M egs of RAM and a 28.8 modem or better, plus a Pentium 75 CP U or Power PC CPU.

Mixed Media classes combine delivery technologies which may include conference calling, audio and videocas- settes, 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).

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/M edia 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
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

<table>
<thead>
<tr>
<th>Foundational Knowledge Block</th>
<th>45 credits</th>
<th>4</th>
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<tbody>
<tr>
<td>EDU 285 Education Seminar 4</td>
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<tr>
<td>EDU 222 Introduction to the Exceptional Learner 3</td>
<td></td>
<td></td>
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<tr>
<td>EDU 225 Foundations of ESL/Bilingual Education 3</td>
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<td></td>
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<tr>
<td>EDU 270 Learning and the Brain 3</td>
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<tr>
<td>EDU 272 Educational Psychology 3</td>
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<tr>
<td>EDU 276 Classroom Management 3</td>
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<thead>
<tr>
<th>Professional Knowledge Block</th>
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<tbody>
<tr>
<td>EDU 240 Methods for Teaching the ESL Student 3</td>
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<tr>
<td>EDU 270AA Elementary Reading &amp; Decoding 3</td>
<td></td>
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<tr>
<td>EDU 275 Diagnosis and Remediation of Reading for K-12 3</td>
<td></td>
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<tr>
<td>EDU 290 Science Methods and Curriculum Development 3</td>
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<tr>
<td>EDU 293 Math Methods and Curriculum Development 3</td>
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</tr>
<tr>
<td>EDU 295 Social Studies Methods and Curriculum Development 3</td>
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<td></td>
</tr>
<tr>
<td>EDU 299 Student Teaching Lab 8</td>
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</tr>
</tbody>
</table>

## 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

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

---

**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.
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 contact 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)

OR
EDU272 Educational Psychology (3) 3
EDU276 Classroom Management 3

Professional Knowledge Block
EDU222 Introduction to the Exceptional Learner 3
EDU223A Emotional Disabilities in the Classroom 3
EDU223B Learning Disabilities in the Classroom 3
EDU223C Mild/Moderate Mental Retardation in the Classroom 3
EDU223D Physical and Other Health Impairments in the Classroom 3
EDU223E Methods in Special Education 3
EDU223F Assessment in Special Education 3
EDU270AA Elementary Reading & Decoding 3
EDU275 Diagnosis and Remediation of Reading for K-12 3
EDU276 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.
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 MCCCD 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
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**

**Associates 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
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
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 F92 (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 (92 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:
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:
A 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 obliged 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:
A 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 Su94 (Active)
Nonattendance F95 (Inactive)
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.
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 Maricopa Community 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 Course Equivalency Guide/AzCAAS (Course Equivalency Guide/AzCourse 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 M CCCD 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

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 M CCCD 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 MCCCD 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 AGEC 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 (AGEC A Core Area, AGEC A Awareness Area, M CCCD 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 or 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 M CCCD and the institutions to which M CCCD 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 (E 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 "M CCCD Courses That Can Be Used to Satisfy M CCCD 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.

I. MCCCD GENERAL STUDIES Credits

The M CCCD General Studies includes two areas, M CCCD AGEC A and M CCCD Additional Requirements.

A. MCCCD AGEC A

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/CS) and a second course from either Computer/Statistics/Quantitative Applications (CS).
CERTIFICATES & DEGREES

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

1. Mathematics [MA] (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. HUM 250 and HUM 251 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/SQ] 8
   To complete the Natural Sciences requirement:
   Select four (4) semester credits of [SQ] and four (4) semester credits of [SQ] for a total of eight (8) semester credits. OR eight (8) semester credits of [SQ]. Students cannot take eight (8) semester credits of [SQ] 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. MCCCD 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 MCCCD Additional Requirements because courses can satisfy a Core Area and MCCCD 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:
   COM 100 [SB] (3 credits)
   OR
   COM 100A A & COM 100B &
   COM 100AC [SB] (3 credits)
   OR
   COM 110 [SB] (3 credits)
   OR
   COM 110A A & COM 110B &
   COM 110AC [SB] (3 credits)
   OR
   COM 225 [L] (3 credits)
   OR
   COM 230 [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.
   CRE 101 [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.
   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
   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 Maricopa County Community College District.

AA GR Total Credits: 60-64
Associate in Arts (AA) Degree, Special Requirements (SR)

The Maricopa County Community College District's Associate in Arts (AA) degree, Special Requirements (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 MCCCD 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

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 MCCCD 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 MCCCD General Studies includes two areas, MCCCD Additional Requirements, Common Lower Division Program Requirements, 3) General Electives.

The list identifies the courses in alpha-order by prefix as well as the different Core A reas and Awareness A reas 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.

I. MCCCD General Studies

<table>
<thead>
<tr>
<th>Credits</th>
<th>MCCCD General Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>Core Areas:</td>
</tr>
<tr>
<td>6</td>
<td>First-Year Composition (FYC)</td>
</tr>
<tr>
<td>3</td>
<td>Literacy and Critical Inquiry [L]</td>
</tr>
<tr>
<td>6</td>
<td>Mathematical Studies [MA/CS]</td>
</tr>
</tbody>
</table>

A. MCCCD AGEC A

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] A and a second course from either Computer/Statistics/Q 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. AND
2. Computer/Statistics/Q 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. H U M 250 and H U M 251 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. MCCC D 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 D Additional Requirements because courses can satisfy a Core Area and MCCC D 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:
COM 100 [SB] (3 credits) OR
COM 100A A & COM 100AB & COM 100AC [SB] (3 credits) OR
COM 110 [SB] (3 credits) OR
COM 110A A & COM 110AB & COM 110AC [SB] (3 credits) OR
COM 225 [L] (3 credits) OR
COM 230 [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.

CRE 101 [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:

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:

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 (E 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. MCCCD General Studies which includes AGEC 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 MCCCD 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 MCCCD 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 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 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 (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 EQuality Guide/A rizona Course A pplicabil-ity 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 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 EQuality 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 “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 particular AGEC.
I. MCCCD GENERAL STUDIES

A. MCCCD 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 [SQ] 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:

A accounting:
   * ACC111 & ACC230 & ACC240
   OR
   ** ACC211 & ACC212
   * MCCCD ACC250 or ACC211 may be taken in lieu of ACC111.
   ** MCCCD ACC111 and ACC112 together are equivalent to ACC211.
   C IS105 [CS] 3
   E CN111 [SB] 3
   E CN112 [SB] 3
   G BS205 3
   G BS220 or M AT212 [MA] 3
   G BS221 [CS] 3

Business elective: 3

Select from the following options:
   C IS158 [CS] COBOL Programming I
   C IS159 [CS] Visual Basic Programming I
   C IS162AA [CS] C: Level I
   C IS162AB [CS] C++: Level I
   C IS162AC [CS] Visual C++: Level I
   C IS163AA [CS] Java Programming: Level I
   G BS151 Introduction to Business
   G BS233 [L] Business Communication
   M GT251 Human Relations in Business
   M GT253 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
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) MCCCD 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 accounting 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.htm

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

The MCCCD 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 MCCCD 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, see the policy on credit for Prior Learning on page 19.

The MCCCD 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/Azona 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.

• 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 "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 particular AGEC.
I. MCCCD GENERAL STUDIES

A. MCCCD 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. HUM 250 and HUM 251 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:

A. Accounting:
   * ACC111 & ACC230 & ACC240
   ** ACC211 & ACC212
   * MCCCD ACC250 or ACC211 may be taken in lieu of ACC111.
   ** MCCCD ACC111 and ACC112 together are equivalent to ACC211.

B. Programming I (COBOL/Java/Visual Basic):
   Select 3 credits from the following:
   CIS158 [CS] OR
   CIS159 [CS]
   OR
   CIS163AA [CS]

C. Programming II (C or C++):
   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
Certificate & Degrees

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

The Maricopa County Community College District's 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 (AGEC S) and MCCCD 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 website:

http://www.abor.asu.edu/4_special_programs/azass/index.htm

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 MCCCD 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 MCCCD 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 AGEC S 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 (AGEC S Core Area, AGEC S Awareness Area, MCCCD 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 MCCCD and the institutions to which MCCCD 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 "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.

I. MCCCD General Studies

<table>
<thead>
<tr>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>Core Areas:</td>
</tr>
<tr>
<td>6</td>
<td>First-Year Composition (FYC)</td>
</tr>
<tr>
<td>3</td>
<td>Literacy and Critical Inquiry (L)</td>
</tr>
<tr>
<td>6</td>
<td>Mathematical Studies [MA/CS]</td>
</tr>
</tbody>
</table>

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. **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:
     - COM 100 [SB] (3 credits) OR
     - COM 100A A & COM 100B & COM 100C [SB] (3 credits) OR
     - COM 110 [SB] (3 credits) OR
     - COM 110A A & COM 110B & COM 110C [SB] (3 credits) OR
     - COM 225 [L] (3 credits) OR
     - COM 230 [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.
   - CRE 101 [L] OR equivalent as indicated by assessment

### II. MAJOR SPECIFIC REQUIREMENTS

#### Non-English Language Requirements
- 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
- 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)

### III. GENERAL ELECTIVES
- Select courses to complete a minimum of 60 semester credits but no more than a total of 64 semester credits.

#### AS GR Total Credits:
- 60-64

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**CERTIFICATES & DEGREES**

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

1. **Mathematics [MA]** (3 credits)
   - Select a course in a calculus sequence (MAT 220/MA 221), or any mathematics course for which this course is a prerequisite AND
2. **Computer/Statistics/Quantitative Applications [CS]** (3 credits)
3. **Humanities and Fine Arts [HU]** (6 credits)
   - 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. HUM 250 and HUM 251 will satisfy the Humanities and Fine Arts area requirement.
4. **Social and Behavioral Sciences [SB]** (6 credits)
   - Courses must be selected from at least two different prefixes with a minimum of three (3) semester credits in each prefix.
5. **Natural Sciences [SQ/SG]** (8 credits)
   - To complete the Natural Sciences requirement:
     - Select eight (8) semester credits of either general chemistry (CHM 151 & CHM 151LL, and CHM 152 & CHM 152L), OR
     - Eight (8) semester credits of university physics (PHY 115 & PHY 116, or PHY 121 & PHY 131), OR
     - Eight (8) semester credits of general biology (BIO 181 & 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. MCCCD Additional Requirements
- 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 MCCCD Additional Requirements because courses can satisfy a Core Area and the MCCCD 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 area requirement has been satisfied and additional electives may be taken.
   - Select from the following options:
     - COM 100 [SB] (3 credits) OR
     - COM 100A A & COM 100B & COM 100C [SB] (3 credits) OR
     - COM 110 [SB] (3 credits) OR
     - COM 110A A & COM 110B & COM 110C [SB] (3 credits) OR
     - COM 225 [L] (3 credits) OR
     - COM 230 [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.
   - CRE 101 [L] OR equivalent as indicated by assessment

#### II. MAJOR SPECIFIC REQUIREMENTS

#### Non-English Language Requirements
- 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
- Select courses to complete a minimum of 60 semester credits but no more than a total of 64 semester credits.

#### AS GR Total Credits:
- 60-64

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**RIO SALADO COLLEGE CATALOG 2001-2002**

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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 MCCCD 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

The MCCCD Associate in Science Special Requirements 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/

The 60-64 semester credits required for the Associate in Science Special Requirements 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/

I. MCCCD General Studies

The MCCCD General Studies includes two areas, MCCCD AGEC S and MCCCD Additional Requirements.

A. MCCCD AGEC S

1. Core Areas: 35

   a. First-Year Composition (FYC) 6
   b. Literacy and Critical Inquiry [L] 3
   c. Mathematical Studies [MA/CS] 6

2. Humanities and Fine Arts [HU] 6

MCCCD 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 MCCCD 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 "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.abor.asu.edu/4_special_programs/atass/index.html

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 follows the [MA], [SQ], [SG] general education designations and refers to a particular AGEC.
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
   (CHM 151 & CHM 151LL, and CHM 152 & CHM 152LL),
   OR
   Eight (8) semester credits of university physics (PHY 115 &
   PHY 116, or PHY 121 & PHY 131),
   OR
   Eight (8) semester credits of general biology (BIO 181 &
   BIO 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 His-
   torical Awareness [H]. However, it is not necessary for students
   to exceed thirty-five semester credits to complete the Awareness
   Areas because courses may satisfy a Core Area and one or two
   Awareness Areas simultaneously. Therefore no additional semes-
   ter 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] OR

B. MCCCD 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 nec-
   essary for students to exceed the thirty-five semester credits
   required in order to complete the MCCCD Additional Require-
   ments because courses can satisfy a Core Area and MCCCD Ad-
   ditional Requirements simultaneously. Therefore, no addi-
   tional 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 Com-
  munication. 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:
   COM 100 [SB] (3 credits) OR
   COM 100A & COM 100AB & COM 100AC
   [SB] (3 credits) OR
   COM 110 [SB] (3 credits) OR
   COM 110A & COM 110AB & COM 110AC
   [SB] (3 credits) OR
   COM 225 [L] (3 credits) OR
   COM 230 [L] [SB] (3 credits)

2. Critical Reading
   A total of three (3) semester credits is required for Critical
   Reading. 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.
   CRE 101 [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 (MAT 230 or MAT 231)
   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 MCCCD Core Areas will not
   apply in the Additional Science Requirement area. Note: Stu-
   dents must consult with an advisor or department/division
   chair for appropriate course selection.
   Select eight (8) semester credits of either general chemistry
   (CHM 151 & CHM 151LL, and CHM 152 & CHM 152LL),
   OR
   Eight (8) semester credits of university physics (PHY 115 &
   PHY 116, or PHY 121 & PHY 131),
   OR
   Eight (8) semester credits in general biology (BIO 181 &
   BIO 182) appropriate to the major.

III. MAJOR SPECIFIC REQUIREMENTS

A. Non-English Language Requirements 0-16
   In some majors students must demonstrate 4th semester profi-
   ciency 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
   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 stu-
   dents 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
   Click on Student Information / Common Course Matrix. 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 Arizon
   public universities according to the Arizona Higher Education
   Course Equivalency Guide (CEG) within the Course Applica-
   bility System (CAS).

AS SR Total Credits: 60-64
Arizona General Education Curriculum (AGEC), AGEC A, AGEC B, AGEC S

The Maricopa County Community College District Arizona General Education Curriculum (MCCCD AGEC) 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 AGEC transfers as a block without loss of credit.

All credits used to satisfy the MCCCD AGEC will apply to graduation requirements of the university major for which the AGEC 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 AGEC A is a component of the MCCCD Associate in Arts, the AGEC B is a component of the MCCCD Associate in Business, and the AGEC S is a component of the MCCCD Associate in Science.

Three Types of MCCCD AGECs

There are three types of MCCCD AGECs. They are the AGEC A, the AGEC B, and the AGEC 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

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

1. The AGEC 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). AGEC A requires a minimum of college mathematics or college algebra to satisfy the Mathematics [MA] requirement.

   AGEC A Mathematics requirement is less stringent than the AGEC B and AGEC S. AGEC A and AGEC B Natural Sciences requirements are less stringent than AGEC S.

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

3. The AGEC S is designed to satisfy requirements in majors with more prescriptive mathematics and mathematics-based science requirements. AGEC S articulates with the Associate in Science. AGEC 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 general biology to satisfy the Natural Sciences [SQ/SG] requirement.

The MCCCD AGEC A, AGEC B, and AGEC 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/Azona 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 AGEC;
- 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 AGEC A, AGEC B, or AGEC 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
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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 “MCCC Courses That Can Be Used to Satisfy MCCC 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

A. Core Areas: 35

1. First-Year Composition (FYC) 6

2. Literacy and Critical Inquiry [L] 3


   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. HUM 250 & HUM 251 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.
   - 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 MCCC 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

Credits

A. Core Areas: 35

1. First-Year Composition (FYC) 6

2. Literacy and Critical Inquiry [L] 3


   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. HUM 250 & HUM 251 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.
   - 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 MCCC 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
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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 take a course in algebra or to demonstrate a higher level of skill by completing a course for which 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]**
  - **AGEC A**
    The AGEC 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]**
    - **AGEC B**
      The AGEC B Mathematics Core area requires a course in Brief Calculus or a higher level mathematics course.
  
  - **Mathematics [MA]**
    - **AGEC S**
      The AGEC 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]**
  - **AGEC 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. HUM 250 and HUM 251 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.
**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 American culture. Cultural change is facilitated by such factors as interdependence that is apparent in many disciplines—for example, contemporary art, business, engineering, music, and the natural and social sciences. Any 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 sciences traditionally called history.
Courses That Can Be Used to Satisfy MCCCD 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 each course. Course combinations are listed at the end of the combination.

For example, GLG 110 as a single course satisfies the Global [G] Awareness area. GLG 110 & GLG 111 combined satisfy Natural Sciences [SG] in the Core Area.

Thus, if a student chooses to take the GLG 110 & GLG 111 combination, the student will satisfy the [G] due to the successful completion of GLG 110 and, in addition, will satisfy the [SG] general studies area by successfully completing the course combination of GLG 110 and GLG 111.

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

<table>
<thead>
<tr>
<th>Area Satisfied</th>
<th>Course Number</th>
<th>Course Name &amp; Credits</th>
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<tbody>
<tr>
<td>CS AGB139</td>
<td>Aribusiness C Operation (3 cr.)</td>
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<tr>
<td>SB, C AIS105</td>
<td>Introduction to A nimation (3 cr.)</td>
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<tr>
<td>C AIS141</td>
<td>Sovereign I ndian N ations (3 cr.)</td>
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<td>C AIS160</td>
<td>American I ndian L aw (3 cr.)</td>
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<td>SB AIS101</td>
<td>Intro to Ciminal J ustice (3 cr.)</td>
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<td>CS AIS119</td>
<td>C omputer A pplications Justice Studies (3 cr.)</td>
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<td>HU AIS123</td>
<td>Ethics &amp; A dministration of J ustice (3 cr.)</td>
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<tr>
<td>SB AIS200</td>
<td>Current Issues in Criminal J ustice (3 cr.)</td>
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Information subject to change. For a current update, go to www.district.maricopa.edu/addev/curric/agecmatrix.html or call Student Services at 480-517-8540.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>AST111</td>
<td>Intro To Astronomy I (3 cr.)</td>
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<td>AST113</td>
<td>Astronomy I Laboratory (1 cr.)</td>
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<td>AST112</td>
<td>Intro To Astronomy II (3 cr.)</td>
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<td>AST114</td>
<td>Astronomy II Laboratory (1 cr.)</td>
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<td>BIO100</td>
<td>Biology Concepts (4 cr.)</td>
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<td>Lab For Natural History Of The Southwest (1 cr.)</td>
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<td>H uman Biology For Allied Health (4 cr.)</td>
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<td>Curriculum Planning for Diversity (3 cr.)</td>
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<td>CFS259</td>
<td>Sexuality Over The Life Span (3 cr.)</td>
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<td>CH101</td>
<td>Intermediate Chinese I (5 cr.)</td>
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<td>CHM107</td>
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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.) |
| SB  | ECN112 | Microeconomic Principles (3 cr.) |
| SB, H | ECN160 | Economic History Of United States (3 cr.) |
| SB, G | ECN212 | The World Economy (3 cr.) |
| SB, G | ECN250 | World Economic Systems (3 cr.) |
| SB  | EDU221 | Introduction To Education (3 cr.) |
| SB, C | EDU222 | Intro to Special Education (3 cr.) |
| C  | EDU225 | Foundations of ESL & Bilingual Education (3 cr.) |
| C  | EDU230 | Cultural Diversity In Education (3 cr.) |
| C  | EDU235 | Mexican-American Child In Classroom (3 cr.) |
| HU | EDU291 | Children's Literature (3 cr.) |
| HU, C | EDU292 | The Art Of Storytelling (3 cr.) |
| HU, C | EDU294 | Folkloric Awareness (3 cr.) |
| CS  | ELE150 | Digital Systems/Microprocessors (4 cr.) |
| CS  | ELT241 | Microcontrollers (4 cr.) |
| CS  | ELT282 | Structured Assembly Language Programming (4 cr.) |
| FYC  | ENG101 | First-Year Composition (3 cr.) |
| FYC  | ENG102 | First-Year Composition (3 cr.) |
| FYC  | ENG107 | Eng For Speakers Of Other Languages (3 cr.) |
| FYC  | ENG108 | Eng For Speakers Of Other Languages (3 cr.) |
| L  | ENG111 | Technical Writing (3 cr.) |
| L, HU | ENG200 | Reading & Writing About Literature (3 cr.) |
| L  | ENG213 | Introduction to The Study of Language (3 cr.) |
| L  | ENG215 | Strategies Of Academic Writing (3 cr.) |
| L  | ENG216 | Persuasive Writing On Public Issues (3 cr.) |
| L  | ENG217 | Personal & Exploratory Writing (3 cr.) |
| L  | ENG218 | Writing About Literature (3 cr.) |
| HU  | ENG260 | Film Analysis (3 cr.) |
| HU  | ENH110 | Intro to Literature (3 cr.) |
| HU, C | ENH112 | Chicano Literature (3 cr.) |
| HU  | ENH113 | Writers & Current Issues (3 cr.) |
| HU, C | ENH114 | African-American Literature (3 cr.) |
| HU, H | ENH201 | World Literature Through Renaissance (3 cr.) |
| HU, G, H | ENH202 | World Literature After Renaissance (3 cr.) |
| HU  | ENH204 | Intro to Contemporary Literature (3 cr.) |
| HU  | ENH206 | Nature & Environmental Literature (3 cr.) |
| HU  | ENH214 | Poetry Study (3 cr.) |
| HU, H | ENH221 | Survey Of English Lit Before 1800 (3 cr.) |
| HU, H | ENH222 | Survey Of English Lit After 1800 (3 cr.) |
| HU  | ENH230 | Intro to Shakespeare (3 cr.) |
| HU, H | ENH241 | American Literature Before 1860 (3 cr.) |
| HU, H | ENH242 | American Literature After 1860 (3 cr.) |
| HU  | ENH250 | Classical Backgrounds In Literature (3 cr.) |
| HU, G | ENH251 | Mythology (3 cr.) |
| L, HU | ENH254 | Literature & Film (3 cr.) |
| L, HU, C | ENH255* | Contemporary US Literature & Film (3 cr.) |
| *Note: ENH255* General Studies designation effective Spring 2001. |
| HU  | ENH256 | Shakespeare on Film (3 cr.) |
| HU, C | ENH259 | American Indian Literature (3 cr.) |
| HU, C | ENH260 | Literature of the Southwest (3 cr.) |
| HU  | ENH270 | 19th Century American Fiction (3 cr.) |
| HU  | ENH275 | Modern Fiction (3 cr.) |
| HU, C | ENH284 | 19th Century Women Writers (3 cr.) |
| HU, C | ENH285 | Contemporary Women Writers (3 cr.) |
| HU  | ENH289 | Literature from Contemporary Nobel Laureates (3 cr.) |
| HU, C | ENH291 | Children's Literature (3 cr.) |
| HU, C | ENH294 | Folkloric Awareness (3 cr.) |
| G  | FRE201 | Intermediate French I (4 cr.) |
| G  | FRE201AA | Intermediate French I (4 cr.) |
| G  | FRE202 | Intermediate French II (4 cr.) |
| G  | FRE202AA | Intermediate French II (4 cr.) |
| HU, G | FRE265 | Advanced French I (3 cr.) |
| HU, G | FRE266 | Advanced French II (3 cr.) |
| CS  | GBS221 | Business Statistics (3 cr.) |
| L  | GBS233 | Business Communication (3 cr.) |
Courses That Can Be Used to Satisfy MCCCD AGEC A, AGEC B, and/or AGEC S

| SB | GBS280  | Organizational Psychology (3 cr.) |
| SB, G | GCU102  | Intro to Human Geography (3 cr.) |
| SB, G | GCU121  | World Geography: Eastern Hemisphere (3 cr.) |
| SB, G | GCU122  | World Geography: Western Hemisphere (3 cr.) |
| SB, G | GCU141  | Intro to Economic Geography (3 cr.) |
| SB, C, H | GCU221  | Arizona Geography (3 cr.) |
| SB, G | GCU253  | Intro/Cultural & Historical Geography (3 cr.) |
| G | GER201  | Intermediate German I (4 cr.) |
| G | GER201AA | Intermediate German I (4 cr.) |
| G | GER202  | Intermediate German II (4 cr.) |
| G | GER202AA | Intermediate German II (4 cr.) |
| G | GLG101  | Intro to Geology I-Physical Lecture (3 cr.) |
| AND | GLG103  | Intro to Geology I-Physical Lab (1 cr.) |
| H | GLG102  | Intro to Geology II-Historical Lecture (3 cr.) |
| AND | GLG104  | Intro to Geology II-Historical Lab (1 cr.) |
| G | GLG105  | Intro to Planetary Science (4 cr.) |
| G | GLG110  | Geologic Disasters and the Environment (3 cr.) |
| AND | GLG111  | Geologic Disasters and the Environment Lab (1 cr.) |
| G | GPH111  | Intro to Physical Geography (4 cr.) |
| SB | HES100* | H. ealth Living (3 cr.) |
| SB, H | HIS100  | History Western Civilization to Middle Ages (3 cr.) |
| SB, H | HIS101  | History Western Civilization/Middle A ges-1789 (3 cr.) |
| SB, H | HIS102  | History Western Civilization 1789 to Present (3 cr.) |
| SB, H | HIS103  | United States History to 1870 (3 cr.) |
| SB, H | HIS104  | United States History 1870 to Present (3 cr.) |
| SB, H | HIS105  | Arizona History (3 cr.) |
| SB, H | HIS105AA | Arizona History Part I (1 cr.) |
| SB, H | HIS105AB | Arizona History Part II (1 cr.) |
| SB, C, H | HIS105AC | Arizona History Part III (1 cr.) |
| SB, H | HIS106  | Southwest History (3 cr.) |
Courses That Can Be Used to Satisfy MCCCD AGEC A, AGEC B, and/or AGEC S

| SB, C, H | HIS109 | Mexican American History & Culture (3 cr.) |
| SB, H | HIS135 | History of Mexico (3 cr.) |
| SB, G, H | HIS145 | History of Mexico (3 cr.) |
| SB, H | HIS173 | United States Military History (3 cr.) |
| SB, C, H | HIS201 | History of Women in America (3 cr.) |
| SB, C, H | HIS203 | African-American History (3 cr.) |
| SB, C, H | HIS209 | The Chicano in 20th Century America (3 cr.) |
| SB, H | HIS241 | Latin American Civilization in the Colonial Period (3 cr.) |
| SB, G, H | HIS242 | Latin American Civilization Post-Colonial Period (3 cr.) |
| HU, G, H | HIS243 | World Religions (3 cr.) |
| SB, H | HIS251 | History of England to 1700 (3 cr.) |
| SB, H | HIS252 | History of England 1700 to Present (3 cr.) |
| SB, G, H | HIS272 | History of the Far East 1900 to Present (3 cr.) |
| HU | HIS277 | The Modern Middle East (3 cr.) |
| HU | HUM101 | General Humanities (3 cr.) |

Note: Three (3) of the nine (9) HUM 190 modules must be taken to secure HUM 190 credit.

| HU, C | HUM105AA | Cultural Perspective: African Ideas/Values (1 cr.) |
| HU, C | HUM105AB | Cultural Perspective: Native-American Ideas/Values (1 cr.) |
| HU, C | HUM105AC | Cultural Perspective: Asian Ideas/Values (1 cr.) |
| HU, C | HUM105AD | Cultural Perspective: Hispanic Ideas/Values (1 cr.) |
| HU, C | HUM105AE | Cultural Perspective: Mediterranean Ideas/Values (1 cr.) |
| HU | HUM107 | Humanities Through the Arts (3 cr.) |
| HU | HUM108 | Contemporary Humanities (3 cr.) |
| HU, C | HUM120 | Cultural Viewpoints in the Arts (3 cr.) |
| HU | HUM125 | The Urban Experience (3 cr.) |

Note: Three (3) of the nine (9) HUM 190 modules must be taken to secure HUM 190 credit.

| HU | HUM190AA | Honors Forum (1 cr.) |
| HU | HUM190AB | Honors Forum (1 cr.) |
| HU | HUM190AC | Honors Forum (1 cr.) |

<p>| HU, G | HUM201 | Humanities: Universal Themes (3 cr.) |
| HU, G | HUM202 | Humanities: Universal Themes (3 cr.) |
| HU | HUM203 | Human: Intellectual Community/Legal Ethics (4 cr.) |
| HU | HUM205 | Intro to Cinema (3 cr.) |
| HU | HUM206 | Intro to Television Arts (3 cr.) |
| HU | HUM207 | Humanities: Biomedical Ethics (3 cr.) |
| HU, C | HUM208 | Arts &amp; World Views of the Southwest (3 cr.) |
| HU, H | HUM209 | Women &amp; Films (3 cr.) |
| HU | HUM210 | Contemporary Cinema (3 cr.) |
| HU, G | HUM211AA | Foreign Films: Classics (3 cr.) |
| HU, G | HUM211AB | Foreign Films: Japanese (3 cr.) |
| HU, G | HUM211AC | Foreign Films: French (3 cr.) |
| HU, G | HUM213 | Hispanic Film (3 cr.) |
| L, HU, H | HUM250 | Ideas &amp; Values in the Humanities (3 cr.) |
| L, HU, H | HUM251 | Ideas &amp; Values in the Humanities (3 cr.) |
| HU, G | HUM260 | Intercultural Perspectives (3 cr.) |
| HU, H | HUM261 | Asian Ideas &amp; Values (3 cr.) |
| HU, C | HUM292 | The Art of Storytelling (3 cr.) |
| SB, G | IBS109 | Cultural Dimensions of International Trade (3 cr.) |
| L | IGS290 | Integrated Studies (3 cr.) |
| L, G | IGS291 | Studies in Global Awareness (3 cr.) |
| C | IGS292 | Studies in Cultural Awareness (3 cr.) |
| L, H | IGS293 | Studies in Historical Awareness (3 cr.) |
| HU, H | INT115 | Historical Architecture &amp; Furniture (3 cr.) |
| HU, H | INT120 | 20th Century Architecture &amp; Furniture (3 cr.) |
| HU | INT225 | History of Decorative Arts (3 cr.) |
| G | ITA201 | Intermediate Italian I (4 cr.) |
| G | ITA201A | Intermediate Italian I (4 cr.) |
| MA-A, MA-B | MAT230 | Analytic Geometry &amp; Calculus II (5 cr.) |
| MA-A, MA-B | MAT231 | Calculus with Analytic Geometry II (4 cr.) |
| MA-A, MA-B | MAT236 | Technical Calculus III (3 cr.) |
| MA-A, MA-B | MAT241 | Calculus with Analytic Geometry III (4 cr.) |
| MA-A, MA-B | MAT262 | Differential Equations (3 cr.) |
| SB | MCO120 | Media &amp; Society (3 cr.) |
| L, C | MCO220 | Cultural Diversity &amp; The Media (3 cr.) |
| HU, H | MHL141 | Appreciations &amp; Literature of Music to 1800 (3 cr.) |
| HU, H | MHL142 | Appreciations &amp; Literature of Music to Present (3 cr.) |
| HU, G* | MHL143* | Music in World Cultures (3 cr.) |
| HU | MHL145 | American Ja &amp; Popular Music (3 cr.) |
| HU | MHL146 | Survey of Broadway Music (3 cr.) |
| HU | MHL147 | Music of African-American Cultures (3 cr.) |
| HU | MHL153 | Rock Music &amp; Culture (3 cr.) |
| HU | PHI101 | Intro to Philosophy (3 cr.) |
| HU | PHI102 | Intro to Philosophy (3 cr.) |
| L, HU | PHI103 | Intro to Logic (3 cr.) |
| HU | PHI105 | Intro to Ethics (3 cr.) |
| L, HU | PHI106 | Critical Thinking (3 cr.) |
| HU | PHI109 | Philosophy of the Arts (3 cr.) |
| HU | PHI213 | Medical &amp; Bio-Ethics (3 cr.) |
| HU | PHI218 | Philosophy of Sexuality (3 cr.) |
| HU | PHI224 | Political Philosophy (3 cr.) |
| L, HU, C | PHI225 | African-American Religions (3 cr.) |
| HU | PHI233AA | Metaphysics: An Introduction (3 cr.) |
| HU | PHI233AB | Theory of Knowledge (3 cr.) |
| HU | PHI234AA | Plato (3 cr.) |</p>
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<td>REL201</td>
<td>Classics of Western Religions (3 cr.)</td>
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<td>REL202</td>
<td>Classics of Asian Religions (3 cr.)</td>
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<td>REL203</td>
<td>A merican Indian Religions (3 cr.)</td>
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<td>REL205</td>
<td>Religion and the Modern World (3 cr.)</td>
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<td>REL213</td>
<td>Medical &amp; Bio-Ethics (3 cr.)</td>
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<td>REL225</td>
<td>African-American Religions (3 cr.)</td>
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<tr>
<td>REL243</td>
<td>World Religions (3 cr.)</td>
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<tr>
<td>REL244</td>
<td>Philosophy of Religion (3 cr.)</td>
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<tr>
<td>REL246</td>
<td>A merican Indian Euro- A merican Comparative Worldview (3 cr.)</td>
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<tr>
<td>REL270</td>
<td>Introduction to Christianity (3 cr.)</td>
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<tr>
<td>REL290*</td>
<td>Women &amp; Religion (3 cr.)</td>
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<tr>
<td>RUS201</td>
<td>Intermediate Russian (4 cr.)</td>
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<tr>
<td>RUS201AA</td>
<td>Intermediate Russian (4 cr.)</td>
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Courses That Can Be Used to Satisfy MCCCD AGEC A, AGEC B, and/or AGEC S

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<tr>
<td>RUS202</td>
<td>Intermediate Russian</td>
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<td>RUS202AA</td>
<td>Intermediate Russian</td>
<td>4 cr.</td>
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<tr>
<td>SBU200</td>
<td>Society and Business</td>
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<td>SMT150</td>
<td>Digital Systems and Microprocessors</td>
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<td>SOC101</td>
<td>Intro to Sociology</td>
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<tr>
<td>SOC110</td>
<td>Intro to Sociology</td>
<td>3 cr.</td>
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<tr>
<td>SOC140</td>
<td>Racial &amp; Ethnic Minorities</td>
<td>3 cr.</td>
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<tr>
<td>SOC141</td>
<td>Sovereign Indian Nations</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SOC142</td>
<td>Sociology of the Chicano Community</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SOC143</td>
<td>Sociology of the Afro-American Problems</td>
<td>3 cr.</td>
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<tr>
<td>SOC144</td>
<td>Sociology of the African-American Problems</td>
<td>3 cr.</td>
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<tr>
<td>SOC157</td>
<td>Sociology of Marriage &amp; Family</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SOC160</td>
<td>American Indian Law</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SOC210</td>
<td>The Child in Society</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SOC212</td>
<td>Women &amp; Men in a Changing Society</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SOC215</td>
<td>Sociology of Adolescence</td>
<td>3 cr.</td>
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<tr>
<td>SOC245</td>
<td>Social Deviance</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SOC251</td>
<td>Social Problems</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SOC253</td>
<td>Social Class &amp; Stratification</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SOC265</td>
<td>Sociology of Aging</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SOC270</td>
<td>Sociology of Health &amp; Illness</td>
<td>3 cr.</td>
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<tr>
<td>SPA201</td>
<td>Intermediate Spanish I</td>
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<td>SPA201AA</td>
<td>Intermediate Spanish I</td>
<td>4 cr.</td>
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<td>SPA202</td>
<td>Intermediate Spanish II</td>
<td>4 cr.</td>
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<td>SPA202AA</td>
<td>Intermediate Spanish II</td>
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<td>SPA203</td>
<td>Spanish for Spanish Speaking Students I</td>
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<tr>
<td>SPA204</td>
<td>Spanish for Spanish Speaking Students II</td>
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<td>SPA265</td>
<td>Advanced Spanish I</td>
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<td>Advanced Spanish II</td>
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<td>SPH150</td>
<td>Peninsular Spanish Lit in Translation</td>
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<td>SPH151</td>
<td>Latin American Lit in Translation</td>
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<td>SPH245</td>
<td>Hispanic in the Southwest</td>
<td>3 cr.</td>
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<td>SWU102</td>
<td>Introduction to Social Work</td>
<td>3 cr.</td>
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<tr>
<td>SWU271</td>
<td>Introduction to Social Welfare</td>
<td>3 cr.</td>
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<td>TEC105</td>
<td>Clothing Selection</td>
<td>3 cr.</td>
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<td>TEC106</td>
<td>History of Fashion</td>
<td>3 cr.</td>
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<td>THE111</td>
<td>Intro to Theatre</td>
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<tr>
<td>THE205</td>
<td>Intro to Cinema</td>
<td>3 cr.</td>
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<tr>
<td>THE206</td>
<td>Intro to Television Arts</td>
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<td>THE210</td>
<td>Contemporary Cinema</td>
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<td>THP241</td>
<td>Intro to Oral Interpretation</td>
<td>3 cr.</td>
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<td>WST100</td>
<td>Women &amp; Society</td>
<td>3 cr.</td>
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<td>WST105</td>
<td>Women of Color in America</td>
<td>3 cr.</td>
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<td>WST110</td>
<td>Women &amp; Gender: A Feminist Psychology</td>
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<td>WST120</td>
<td>Gender, Class, &amp; Race</td>
<td>3 cr.</td>
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<td>WST209</td>
<td>Women &amp; Films</td>
<td>3 cr.</td>
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<tr>
<td>WST284</td>
<td>19th Century Women Writers</td>
<td>3 cr.</td>
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<tr>
<td>WST285</td>
<td>Contemporary Women Writers</td>
<td>3 cr.</td>
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<tr>
<td>WST290*</td>
<td>Women &amp; Religion</td>
<td>3 cr.</td>
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</table>

Information subject to change. For a current update, go to [www.district.maricopa.edu/eddev/curric/adagematrix.html](http://www.district.maricopa.edu/eddev/curric/adagematrix.html) or call Student Services at 480-517-8540.
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 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/

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

Element | Credits
--- | ---
MCCCD General Studies Core | 19
Approved Lower Division Transfer Courses (Major dependent with maximum to be determined by receiving baccalaureate degree-granting institution) | Variable
Associate in Transfer Partnership Degree Total Hours | 60 minimum

Although the ATP degrees are accessible 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

The Maricopa County Community College District recommends the Associate in General Studies (AGS) degree 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 MCCCD 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= scale for Arizona residents and a minimum 2.5 on a 4.0= 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 100/100A & 100B & 100C/110/110A & 110B & 110C/225/230

Critical Reading (3 credits)

CRE Critical Reading 101/E equivalent as indicated by assessment

Mathematics (3 credits)


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


AGB Aribusiness 139

AJ S Administration of Justice Studies 117/119/205


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 102/102A A/103/103A B/139

ECH Early Childhood Education 238

* Indicates course has a Prerequisite and/or Corequisite.
### Certificates & Degrees

**Associate in General Studies (AGS) Degree**

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<tr>
<th>Code</th>
<th>Program</th>
<th>Credits</th>
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<tr>
<td>EEE</td>
<td>Electrical Engineering</td>
<td>120</td>
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<tr>
<td>ELE</td>
<td>Electronic 115/150/181/241/243/245/281</td>
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<tr>
<td>ELT</td>
<td>Electronic Technology 131/131A A/131A B/</td>
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<tr>
<td></td>
<td>241/243/249/273/281/282</td>
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<tr>
<td>ENG</td>
<td>English 100A E</td>
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<tr>
<td>FON</td>
<td>Food &amp; Nutrition 100/100A A/100A C/100A D/</td>
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<tr>
<td></td>
<td>140B C</td>
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<tr>
<td>GPH</td>
<td>Physical Geography 217/219</td>
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<tr>
<td>HRM</td>
<td>Hotel Restaurant Management 126</td>
<td></td>
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<tr>
<td>JRN</td>
<td>Journalism 133</td>
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<tr>
<td>LAS</td>
<td>Legal Assisting 229</td>
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<td>LBT</td>
<td>Library Technology 106</td>
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<td>MET</td>
<td>Manufacturing Technology 105A A/264</td>
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<td>MTC</td>
<td>Music Theory/Composition 191</td>
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<tr>
<td>NET</td>
<td>Networking Technology 181/181A A/181A B/</td>
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<td>247</td>
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<tr>
<td>OAS</td>
<td>Office Automation Systems 111A A/111A B/113/</td>
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<td></td>
<td>113A A &amp; 113A B/119/130/any 130 module/</td>
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<tr>
<td></td>
<td>any 135 module/any 235 module/261/262</td>
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<tr>
<td>OCT</td>
<td>Quality Control Technology 274</td>
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<tr>
<td>SBS</td>
<td>Small Business 211</td>
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<td>SMT</td>
<td>Semiconductor Manufacturing Technology</td>
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<td></td>
<td>131/150</td>
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<tr>
<td>TCM</td>
<td>Telecommunications 106</td>
<td></td>
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<tr>
<td>TVL</td>
<td>Travel Agent Technology 203/205</td>
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</tr>
<tr>
<td>VPT</td>
<td>Video Production Technology 106</td>
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</tbody>
</table>

**General Studies Distribution Areas**

**(28-29 credits)**

### Humanities and Fine Arts *(9 credits)*

No more than 2 courses, or their modular equivalents, from a single prefix may be used to complete the area. Select nine (9) credits from the following:

- **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** Theatre 111/205/206/210/220/260
- **THP** Theatre/Performance/Production 241
- **WST** Women's Studies 209/284/285

**Social and Behavioral Sciences (9 credits)**

No more than 2 courses, or their modular equivalents, from a single prefix may be used to complete the area.

- **AIS** American Indian Studies 101/105/141
- **AJ S** Administration of Justice Studies 101/119/200/258/259/270
- **ASB** Anthropology 100/102/211/214/222/223/230/235/238/245
- **ASM** Anthropology 101
- **CF S** Child/Family Studies 157/159/176/205/259
- **COM** Communication 100/100A A & 100A B & 110A C & 110A D & 230/250/263
- **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)
- **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

*Indicates course has a Prerequisite and/or Corequisite.*
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 A agricultural Science 183
ASB Anthropology 231
ASM Anthropology 265
AST Astronomy 101/102/105/108/110/114/149AF/149AH/149AI/149AJ/149AK/149AL/149AM/
AN/150/156/181/182/183/201/205/241
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 101/111/112/115/121/131/252
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 290/290A A & 290A B/291/293
JRN Journalism 201/212
MCO Mass Communications 220
NUR Nursing 211
PHI Philosophy 103/106/225
POS Political Science 115
PSY Psychology 290A B/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 MCCCD 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.
- 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
First-Year Composition (6 credits)
ENG English [101/107] & [102/108/111]

Oral Communication (3 credits)
COM Communication 100/100A & 100B & 100AC/110/110A & 110B & 110C/225/230

Critical Reading (3 credits)
CRE Critical Reading 101/111/Equivalent as indicated by assessment

Mathematics (3 credits)
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 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)
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 100/101/102/105/108/109/110/149A/N/150/156/159/181/182/183/201/205/241
CHM Chemistry 107/107L/130/130L/151/151L/152/152L/154/154L/230/230L
GLG Geology Any GLG course(s) (EXCEPT 140/251M C/275)
GPH Physical Geography 111/112/131/212/214
ISS Interdisciplinary Science Studies 111/112
PHS Physical Science 110/120
PHY Physics 101/111/112/115/116/121/131/252
PSY Psychology 290A/B/290AC

* Indicates course has a Prerequisite and/or Corequisite.
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

**Required Courses:** 21

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BH S205*</td>
<td>Models for Growth</td>
<td>3</td>
</tr>
<tr>
<td>CHD100</td>
<td>Foundations of Chemical Dependency</td>
<td>3</td>
</tr>
<tr>
<td>CHD102</td>
<td>Communication Skills in Chemical Dependency</td>
<td>3</td>
</tr>
<tr>
<td>CHD110</td>
<td>Biological Systems Pharmacology of the Chemically Dependent</td>
<td>3</td>
</tr>
<tr>
<td>CHD120</td>
<td>Professional Ethics in Counseling the Chemically Dependent</td>
<td>1</td>
</tr>
<tr>
<td>CHD145</td>
<td>AIDS and Chemical Dependency</td>
<td>1</td>
</tr>
<tr>
<td>CHD150</td>
<td>Principles of Self-Help Groups</td>
<td>2</td>
</tr>
<tr>
<td>CHD161*</td>
<td>Beginning Interviewing and Documentation Skills</td>
<td>3</td>
</tr>
<tr>
<td>CHD165*</td>
<td>Theory and Techniques in the Treatment of the Chemically Dependent</td>
<td>2</td>
</tr>
</tbody>
</table>

Certificate of Completion in Chemical Dependency Level II

**Required Courses:** 47

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD220*</td>
<td>Family Dynamics and Chemical Dependency</td>
<td>3</td>
</tr>
<tr>
<td>CHD226*</td>
<td>Counseling Multicultural and Diverse Populations</td>
<td>3</td>
</tr>
<tr>
<td>CHD236*</td>
<td>Recovery and Relapse of the Chemically Dependent</td>
<td>2</td>
</tr>
<tr>
<td>CHD245*</td>
<td>Dual Diagnosis</td>
<td>2</td>
</tr>
<tr>
<td>CHD250*</td>
<td>Group Interventions with the Chemically Dependent</td>
<td>3</td>
</tr>
<tr>
<td>CHD275*</td>
<td>Adv Theory &amp; Techniques in the Treatment of the Chemically Dependent</td>
<td>3</td>
</tr>
<tr>
<td>CHD280*</td>
<td>Chemical Dependency Practicum</td>
<td>6</td>
</tr>
</tbody>
</table>

**Restricted Electives:** 4

Choose 4 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD215*</td>
<td>Adult Children of Alcoholics</td>
<td>1</td>
</tr>
<tr>
<td>CHD240*</td>
<td>Human Sexuality and Chemical Dependency</td>
<td>2</td>
</tr>
<tr>
<td>CHD265*</td>
<td>Co-Dependency</td>
<td>1</td>
</tr>
<tr>
<td>CHD285*</td>
<td>Chemical Dependency Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CPD102AA</td>
<td>Assertiveness Training</td>
<td>2</td>
</tr>
<tr>
<td>CPD102AD</td>
<td>Eliminating Self-Defeating Behavior</td>
<td>2</td>
</tr>
<tr>
<td>CPD102AH</td>
<td>Stress Management</td>
<td>2</td>
</tr>
<tr>
<td>PSY101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY260*</td>
<td>Personality Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY266*</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY270*</td>
<td>Personal and Social Adjustment</td>
<td>3</td>
</tr>
</tbody>
</table>

* Indicates course has a Prerequisite and/or Corequisite.

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/](http://www.rio.maricopa.edu/ci/programs/) or to speak to an academic advisor, call 480-517-8540.
CLOSED

C E R T I F I C A T E S & D E G R E E S

Chemical Dependency • Computer Technology

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
ENG 101* First-Year Composition (3)
AND
ENG 102* First-Year Composition (3)

Oral Communication 3
Any approved general studies course in the Oral Communication area.

Mathematics 3
MAT 102* Mathematical Concepts/Applications (3)
OR
Equivalent as indicated by assessment

Critical Reading 3
CRE 101* 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
PSY 101 Introduction to Psychology (3)
OR
PSY 270* Personal and Social Adjustment (3)

Certificate(s) or Degree(s) Awarded:
Certificate of Completion in Chemical Dependency Level I (21 credits)
Certificate of Completion in 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

Certificate of Completion in 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.

Required Courses: 16
BPC 135xx* Word Processing (any module) 2
CIS 105 Survey of Computer Information Systems 3
CIS 114D E Excel Spreadsheet 3
CIS 117D x Database Management (any module) 3
CIS 118A B Powerpoint: Level I 1
OR
CIS 121A G Windows Operating System: Level I (1)
AND
CIS 121A G Windows 98: Level I (1) 1
CIS 133 A A The Internet: Level I (1)
AND
CIS 133B A The Internet: Level II (1)
AND
CIS 133C A The Internet: Level III (1)
OR
CIS 133D A The Internet/World Wide Web (3) 3

* Indicates course has a Prerequisite and/or Corequisite.
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
BPC 138A A* Windows Desktop Design & Publishing (3)
OR
BPC 138A B* MacOSintosh Desktop Design & Publishing (3) 3
BPC 235xx* Advanced Work Processing (any module) 2
CIS109* LAN Operations and Concepts 1
CIS120D F Computer Graphics: IBM Adobe Photoshop 3
CIS122A E* Windows Operating System: Level II (1)
OR
CIS122A G* Windows 98 - Level II (1) 1
CIS124A A Project Management Software: Level I 1
CIS214DE* Advanced Excel Spreadsheet: Level II 3
CIS233A B* Internet Web Publishing: FrontPage Level I (1)
AND
CIS233A B* Internet Web Publishing: FrontPage Level II (1)
OR
CIS233A A* The Internet Web Publishing I (1)
AND
CIS233B A* The Internet Web Publishing II (1)
AND
CIS233C A* The Internet Web Publishing III (1)
OR
CIS233D A* The Internet Web Publishing (3) 2-3
TQM 105* 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: 34-35

Certificate of Completion in Computer Technology 16
BPC 125* Microcomputer Set Up and Maintenance 1
BPC 170* Computer Maintenance I: A + Prep 3
BPC 225* Computer Configuration and Enhancement 1
BPC 278* Software Installation - MS Windows 3
CIS109* LAN Operations and Concepts 1
CIS121A B MS-DOS Operating System 1
CIS122A E* Windows Operating System: Level II (1)
OR
CIS122A G* Windows 98 - Level II (1) 1
CIS124A A 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: 34-35

Certificate of Completion in Computer Technology 16
BPC 125* Microcomputer Set Up and Maintenance 1
CIS109* LAN Operations and Concepts 1
CIS120D F Computer Graphics: IBM Adobe Photoshop 3
CIS122A E* Windows Operating System: Level II (1)
OR
CIS122A G* Windows 98 - Level II (1) 1
CIS124A A 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
CIS235* E-Commerce 3

* Indicates course has a Prerequisite and/or Corequisite.
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

BPC 128A F  Introduction to Desktop Publishing: MS Publisher 1

BPC 138AA  Windows Desktop Design & Publishing (3)

OR

BPC 138AB  Macintosh Desktop Design & Publishing (3)

BPC 238AA  Windows Advanced Desktop Publication (3)

OR

BPC 238AB  Macintosh Advanced Desktop Publication (3)

CIS 120B  Computer Graphics: IBM Adobe Illustrator 3

CIS 120D  Computer Graphics: IBM Adobe Photoshop 3

CIS 124AA  Project Management Software: Level I 1

CIS 233A  The Internet Web Publishing I (1)

CIS 233B  The Internet Web Publishing II (1)

CIS 233C  The Internet Web Publishing III (1)

CIS 233D  The Internet Web Publishing (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

BPC 125  Microcomputer Set Up and Maintenance 1

BPC 138A  Windows Desktop Design & Publishing 3

BPC 235  Advanced Word Processing (any module) 2

CIS 122A  Project Management Software: Level I 1

CIS 233A  The Internet Web Publishing I (1)

CIS 233B  The Internet Web Publishing II (1)

CIS 233C  The Internet Web Publishing III (1)

CIS 233D  The Internet Web Publishing (3)

CIS 290A  Computer Information Systems Internship (3)

* Indicates course has a Prerequisite and/or Corequisite.
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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS150*</td>
<td>Programming Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIS159*</td>
<td>Visual Basic Programming I</td>
<td>3</td>
</tr>
<tr>
<td>CIS162A B</td>
<td>C++: Level I (3)</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS166A A</td>
<td>Introduction to JavaScripting (3)</td>
<td>3</td>
</tr>
<tr>
<td>CIS163A A</td>
<td>Java Programming: Level I</td>
<td>3</td>
</tr>
<tr>
<td>CIS233A A</td>
<td>The Internet Web Publishing I (1)</td>
<td></td>
</tr>
<tr>
<td>AND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS233BA A</td>
<td>The Internet Web Publishing II (1)</td>
<td></td>
</tr>
</tbody>
</table>

The following Certificates of Completion are limited to Rio Salado’s Educational Partnership Programs (see page 104):

Database Administration

Basic Systems Engineering

Advanced Systems Engineering

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS109*</td>
<td>LAN Operations and Concepts</td>
<td>1</td>
</tr>
<tr>
<td>CIS115*</td>
<td>Managing Computer Projects</td>
<td>3</td>
</tr>
<tr>
<td>CIS120D C</td>
<td>Computer Graphics: Macromedia Flash (3)</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS120D F</td>
<td>Computer Graphics: Adobe Photoshop (3)</td>
<td>3</td>
</tr>
<tr>
<td>CIS122AG*</td>
<td>Windows 98 - Level II (1)</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS122A E</td>
<td>Windows Operating System: Level II (1)</td>
<td>1</td>
</tr>
<tr>
<td>CIS140*</td>
<td>Survey of Multimedia Technology</td>
<td>2</td>
</tr>
<tr>
<td>CIS166A A</td>
<td>Introduction to JavaScripting</td>
<td>3</td>
</tr>
<tr>
<td>CIS233A A</td>
<td>The Internet Web Publishing I (1)</td>
<td></td>
</tr>
<tr>
<td>AND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS233BA A</td>
<td>The Internet Web Publishing II (1)</td>
<td></td>
</tr>
<tr>
<td>AND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS233CA A</td>
<td>The Internet Web Publishing III (1)</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS233DA A</td>
<td>The Internet Web Publishing (3)</td>
<td>3</td>
</tr>
<tr>
<td>CIS235*</td>
<td>e-Commerce</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS109*</td>
<td>LAN Operations and Concepts</td>
<td>1</td>
</tr>
<tr>
<td>CIS115*</td>
<td>Managing Computer Projects</td>
<td>3</td>
</tr>
<tr>
<td>CIS124A A</td>
<td>Project Management Software: Level I</td>
<td>1</td>
</tr>
<tr>
<td>CIS124BA A</td>
<td>Project Management Software: Level II</td>
<td>1</td>
</tr>
<tr>
<td>CIS140*</td>
<td>Survey of Multimedia Technology</td>
<td>2</td>
</tr>
<tr>
<td>CIS159*</td>
<td>Visual Basic Programming I</td>
<td>3</td>
</tr>
<tr>
<td>CIS225*</td>
<td>Business Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>TQM105*</td>
<td>Writing for Quality Results</td>
<td>2</td>
</tr>
</tbody>
</table>

*Indicates course has a Prerequisite and/or Corequisite.
## Certificate(s) & Degree(s)

### Computer Technology

#### Associate in Applied Science in Computer Technology

**Required Courses:** 11-37

- Certificate of Completion in Computer Technology 16
- Certificate of Completion in Networking 37
- Certificate of Completion in Web Master 34
- Certificate of Completion in Desktop Publishing 33
- Certificate of Completion in Technology Troubleshooting and A+ Preparation 35
- Certificate of Completion in Technology Helpdesk Support 32
- Certificate of Completion in Programming 37
- Certificate of Completion in Business Office Technology 34-35
- Certificate of Completion in e-Commerce/Website Management 35
- Certificate of Completion in Project Management/Website Management 32

**Restricted Electives:** 3-28

Choose 3-28 credits from the following:

- **BPCxxx** Any Business-Personal Computers course .5-4
- **CISxxx** Any Computer Information Systems course 1-4
- **OASxxx** Any Office Automation Systems course .5-4

**General Studies Requirements:** 25

**General Studies Core:** 15

**First-Year Composition** 6

- **ENG 101** First-Year Composition (3)
- **ENG 102** First-Year Composition (3)

**Oral Communication** 3

- **COM 100** Introduction to Human Communication

**Mathematics** 3

- **MAT 102** Mathematical Concepts/Applications (3)
- **MAT xxx** Any higher level MAT course (3)

**Critical Reading** 3

- **CRE 101** Critical and Evaluative Reading I (3)
- **CRE 111** Critical Reading for Business and Industry (3)

**E** Equivalents 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:
  - Computer Technology (16 credits)
  - Networking (37 credits)
  - Web Master (34 credits)
  - Technology Troubleshooting and A+ Preparation (35 credits)
  - Technology Helpdesk Support (32 credits)
  - Programming (37 credits)
  - Business Office Technology (34-35 credits)
  - e-Commerce/Website Management (35 credits)
  - 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.

**Required Courses:**

- CDA 101* Orientation to Clinical Dental Assisting 1
- CDA 102* Introduction to Dental Office Management 1
- CDA 110* Infection Control and Hazard Communication 2
- CDA 115* Dental Anatomy and Pathology 3
- CDA 120* Clinical Patient Management 1
- CDA 125* Dental Materials 3
- CDA 220* Clinical Dental Assisting I 2
- CDA 230* Clinical Dental Assisting II 2
- CDA 240* Dental Radiographic Imaging 3
- CDA 280* Clinical Dental Assistant Practicum 1
- CDA 290* 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 of “C” or better for all courses required within the program.

**Minimum GPA 2.00**

---

**Dental Hygiene**

The Associate 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.

**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 in a health science discipline from a regionally accredited institution of higher education recognized by Maricopa County Community College District.

- BIO 162 Microbiology Concepts for Allied Health 2
- CHM 138* Chemistry for Allied Health 3
- CHM 138L *Chemistry for Allied Health Lab 1
- HCC 109 CPR for Health Care Provider (.5)

OR

Current CPR certification at the health care provider professional rescuer level .5

*Indicates course has a Prerequisite and/or Corequisite.
### Dental Hygiene

**Option 2:** 34.5

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 162</td>
<td>Microbiology Concepts for Allied Health</td>
<td>2</td>
</tr>
<tr>
<td>CHM 138*</td>
<td>Chemistry for Allied Health</td>
<td>3</td>
</tr>
<tr>
<td>CHM 138LL*</td>
<td>Chemistry for Allied Health Lab</td>
<td>1</td>
</tr>
<tr>
<td>HCC 109</td>
<td>CPR for Health Care Provider</td>
<td>.5</td>
</tr>
</tbody>
</table>

**OR**

Current CPR certification at the health care provider professional level .5

**Option 3:** 38.5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 162</td>
<td>Microbiology Concepts for Allied Health</td>
<td>2</td>
</tr>
<tr>
<td>CHM 138*</td>
<td>Chemistry for Allied Health</td>
<td>3</td>
</tr>
<tr>
<td>CHM 138LL*</td>
<td>Chemistry for Allied Health Lab</td>
<td>1</td>
</tr>
<tr>
<td>HCC 109</td>
<td>CPR for Health Care Provider</td>
<td>.5</td>
</tr>
</tbody>
</table>

**OR**

Current CPR certification at the health care provider professional level .5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCC 130</td>
<td>Fundamentals in Health Care Delivery</td>
<td>3</td>
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</tbody>
</table>

**OR**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCC 130A A</td>
<td>Health Care Today</td>
<td>.5</td>
</tr>
<tr>
<td>HCC 130A B</td>
<td>Workplace Behaviors in Health Care</td>
<td>.5</td>
</tr>
<tr>
<td>HCC 130A C</td>
<td>Personal Wellness and Safety</td>
<td>.5</td>
</tr>
<tr>
<td>HCC 130A D</td>
<td>Communication and Teamwork in Health Care Organizations</td>
<td>.5</td>
</tr>
</tbody>
</table>

**AND**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCC 130A E</td>
<td>Legal and Ethical Issues in Health Care</td>
<td>.5</td>
</tr>
</tbody>
</table>

**AND**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCC 130A F</td>
<td>Decision Making in the Health Care Setting</td>
<td>3</td>
</tr>
<tr>
<td>HCC 145A A</td>
<td>Medical Terminology for Health Care Workers I</td>
<td>1</td>
</tr>
</tbody>
</table>

**General Studies Requirements:** 28

**General Studies Core:** 15

**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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRE 101*</td>
<td>Critical and Evaluative Reading I</td>
<td>3</td>
</tr>
</tbody>
</table>

**OR**

Equivalent as indicated by assessment

### Mathematics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 102*</td>
<td>Mathematical Concepts/Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

**OR**

Satisfactory completion of a higher MAT course .5

**OR**

Equivalent by assessment

### General Studies Distribution: 13

**Humanities and Fine Arts** 3

Any approved general studies course in the Humanities and Fine Arts area.

**Social and Behavioral Sciences** 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

### Natural Sciences 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 160</td>
<td>Introduction to Human Anatomy &amp; Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

### Required Courses: 58

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHE 110*</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>DHE 112*</td>
<td>O ral Pathology</td>
<td>3</td>
</tr>
<tr>
<td>DHE 114*</td>
<td>Emergency Medicine</td>
<td>2</td>
</tr>
<tr>
<td>DHE 119*</td>
<td>Head and Neck Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>DHE 120*</td>
<td>Pre-Clinical Dental Hygiene</td>
<td>6</td>
</tr>
<tr>
<td>DHE 122*</td>
<td>Dental Anatomy, Embryology and Histology</td>
<td>2</td>
</tr>
<tr>
<td>DHE 124*</td>
<td>Dental Radiography</td>
<td>2</td>
</tr>
<tr>
<td>DHE 125*</td>
<td>Dental Radiography Lab</td>
<td>1</td>
</tr>
<tr>
<td>DHE 127*</td>
<td>Prevention of Dental Disease</td>
<td>3</td>
</tr>
<tr>
<td>DHE 132*</td>
<td>Dental Hygiene Theory I</td>
<td>3</td>
</tr>
<tr>
<td>DHE 133*</td>
<td>Dental Hygiene Clinic I</td>
<td>3</td>
</tr>
<tr>
<td>DHE 203*</td>
<td>Dental Materials</td>
<td>2</td>
</tr>
<tr>
<td>DHE 204*</td>
<td>Dental Materials Lab</td>
<td>1</td>
</tr>
<tr>
<td>DHE 212*</td>
<td>Dental Hygiene Theory II</td>
<td>2</td>
</tr>
<tr>
<td>DHE 213*</td>
<td>Dental Hygiene Clinic II</td>
<td>5</td>
</tr>
<tr>
<td>DHE 219*</td>
<td>Practice Management</td>
<td>2</td>
</tr>
<tr>
<td>DHE 225*</td>
<td>Periodontics</td>
<td>3</td>
</tr>
<tr>
<td>DHE 227*</td>
<td>Dental Anesthesia</td>
<td>2</td>
</tr>
<tr>
<td>DHE 229*</td>
<td>Community O ral Health</td>
<td>3</td>
</tr>
<tr>
<td>DHE 232*</td>
<td>Dental Hygiene Theory III</td>
<td>2</td>
</tr>
<tr>
<td>DHE 233*</td>
<td>Dental Hygiene Clinic III</td>
<td>5</td>
</tr>
</tbody>
</table>

### Certificate(s) or Degree(s) Awarded:

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS105</td>
<td>Survey of Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>BPC110 Computer Usage and Applications</td>
<td>3</td>
</tr>
<tr>
<td>GBS110</td>
<td>Human Relations in Business and Industry</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>MGT251 Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>GBS233* Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>3</td>
<td>TQM105* Writing for Quality Results</td>
</tr>
<tr>
<td>OR</td>
<td>MGT101 Techniques of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>3</td>
<td>MGT175 Business Organization and Management</td>
</tr>
<tr>
<td>OR</td>
<td>3</td>
<td>GBS151 Introduction to Business</td>
</tr>
<tr>
<td>OR</td>
<td>3</td>
<td>MGT229 Management and Leadership I</td>
</tr>
</tbody>
</table>

* Indicates course has a Prerequisite and/or Corequisite.

Certificate of Completion in Quality Process Leadership

Required Courses: 14

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TQM201</td>
<td>Total Quality Concepts</td>
<td>2</td>
</tr>
<tr>
<td>TQM214</td>
<td>Principles of Process Improvement</td>
<td>2</td>
</tr>
<tr>
<td>TQM220</td>
<td>Leadership and Empowerment Strategies</td>
<td>2</td>
</tr>
<tr>
<td>TQM230</td>
<td>Teamwork Dynamics</td>
<td>2</td>
</tr>
<tr>
<td>TQM235</td>
<td>Motivation, Evaluation and Recognition Systems</td>
<td>2</td>
</tr>
<tr>
<td>TQM240</td>
<td>Project Management in Quality Organizations</td>
<td>2</td>
</tr>
<tr>
<td>TQM290A</td>
<td>*TQM Internship</td>
<td>1</td>
</tr>
<tr>
<td>TQM292*</td>
<td>Innovation Strategies</td>
<td>1</td>
</tr>
</tbody>
</table>

* Indicates course has a Prerequisite and/or Corequisite.
Restricted Electives:  3
COM 110  Interpersonal Communication  3
GBS 175  Professional Development  3
MGT 172  Organizations, Paradigms, and Change  1
MGT 229  Management and Leadership I  3
MGT 230*  Management and Leadership II  3
MGT 251  Human Relations in Business  3
TQM 101  Quality Customer Service  3
TQM 105*  Writing for Quality Results  2
TQM 200  Leadership for Front-Line Employees  2
TQM 205  Managing Diversity  2

Associate in Applied Science in Organizational Leadership

Required Courses:  17-18
Certificate of Completion in Quality Process Leadership  17
OR
Certificate of Completion in Organizational Leadership  17-18

Restricted Electives:  19-22
Students will choose one of two tracks for a total of 19-22 credits.

Track 1  17-18
Certificate of Completion in Quality Process Leadership  17
OR
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

Track 2  19-22
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.

General Studies Requirements:  25-27
General Studies Core:  15-17
First-Year Composition  6

Oral Communication  3
Any approved general studies course in the Oral Communication area.

Critical Reading  3
Any approved general studies course in the Critical Reading area.

Mathematics  3-5
Any approved general studies course in the Mathematics area.

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 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.

Minimum GPA 2.00

* 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
C R E 101* Critical and Evaluative Reading I (3)
OR Equivalent by Assessment (3)

Required Courses: 31
C I S 105 Survey of Computer Information Systems 3
C I S 121A B M S-D O S O perating System (1)
OR C I S 121A E W indows O perating System: L evel I (1)
C I S 150* Programming Fundamentals 3
C I S 159* V isual Basic Programming I 3
C I S 162* C Programming I (any module) 3
C I S 163 A A * Java Programming: L evel I 3
C I S 190* I ntroduction to L ocal A rea N etworks 3
C I S 225* B usiness S ystems A nalysis and D esign 3
C I S 250* M anagement I nformation Systems 3
G B S 233* B usiness C ommunication 3
T Q M 204 T eam R oles and D ynamics 3

Associate in Applied Science in Programming and System Analysis

Program Prerequisites: 3
C R E 101* 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.
C I S 117 D M M icrosoft A ccess: D atabase M anagement 3
C I S 126 D A U N I X O perating System 3
C I S 158* CO B OL P rogramming I 3
C I S 259* V isual Basic P rogramming II 3
C I S 262 xx* C : L evel II (any module) 3
C I S 263 A A * J ava P rogramming: L evel II 3
C I S 290 A C * C omputer I nformation Systems I nternship 3

General Studies Requirements: 22
General Studies Core: 12
First-Year Composition 6
E N G 101* First-Year Composition (3)
OR E N G 107* First-Year Composition for E S L (3)
AND E N G 102* First-Year Composition (3)
OR E N G 108* First-Year Composition for E S L (3)

Oral Communication 3
Any approved general studies course in the Oral Communication area.

Critical Reading 0
Met by C R E 101 in Program Prerequisites area.

Mathematics 3
M A T 212* B rief C alculus

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
E C N 111 M acroeconomic Principles (3)
OR E C N 112 M icroeconomic 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

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, teamwork and management styles.

Certificate of Completion in Public Administration

Required Courses: 15
- BPCxxx Any Business-Personal Computers course(s) (3)
- OR
- CISxxx Any Computer Information Systems course(s) (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
- GB5205 Legal, Ethical, and Regulatory Issues in Business 3
- GB5233* 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
- PA Dxxx Any Public Administration course 3
- PO S110 American National Government 3
- PO S221 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
- ENG101* First-Year Composition (3)
- OR
- ENG102* First-Year Composition (3)
- OR
- ENG111* Technical Writing (3)

Oral Communication
- COM100 Introduction to Human Communication (3)
- OR
- COM230* Small Group Communication (3)

Critical Reading
- CRE101* Critical and Evaluative Reading I (3)
- OR
- CRE111* Critical Reading for Business and Industry (3)

Mathematics
- MAT102* Mathematical Concepts/Applications (3)
- OR
- MAT122* Intermediate Algebra (3)

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

### 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
- COM 110 Interpersonal Communication 3
- GBS 175 Professional Development 3
- TQM 101 Quality Customer Service 3
- TQM 105* Writing for Quality Results 2
- TQM 230 Teamwork Dynamics 2

**Restricted Electives:** 3
Choose 3 credits from the following:
- BPC 117xx (any module) 1
- BPC 130xx (any module) 1
- MGT 172 Organizations, Paradigms, and Change 1
- TQM 200 Leadership for Front-Line Employees 2
- TQM 205 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
- ENG 101* First-Year Composition (3)
 AND
- ENG 102* First-Year Composition (3)
 OR

**Equivalent as indicated by assessment**

**Mathematics**
- MAT 102* 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

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, analysis, and interpretation of water samples, along with the public control components of the societal water cycle.

Required Courses: 12
- WWM 110 Principles of Water Treatment Plant Operations 3
- WWM 112* Basic Water Treatment Processes 3
- WWM 114* Mineral Control 3
- WWM 116* Water Treatment Plant Administration 3

Restricted Electives: 3
Choose 3 credits from the following:
- BPC/CISxx Any BPC/CIS Course .5-3
- BIO 100 Biology Concepts 4
- BIO 181 General Biology (Majors) I 4
- CHM 130* Fundamental Chemistry (3) 3
  AND
- CHM 130LL* Fundamental Chemistry Lab (1) 1
- ENG 101* First-Year Composition 3
- ENG 111* Technical Writing 3
- MAT AT 102* Mathematical Concepts/Applications (3) OR
- Any higher numbered MAT course (3) 3

Certificate 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, analysis, and interpretation of water samples, and the treatment of wastewater for disease control.

Required Courses: 12
- WWM 124 Sludge and Solids Handling 3
- WWM 126* Wastewater Plant Administration 3

Restricted Electives: 3
Choose 3 credits from the following:
- BPC/CISxx Any BPC/CIS Course .5-3
- BIO 100 Biology Concepts 4
- BIO 181 General Biology (Majors) I 4
- CHM 130* Fundamental Chemistry (3) AND
- CHM 130LL* Fundamental Chemistry Lab (1) 1
- ENG 101* First-Year Composition 3
- ENG 111* Technical Writing 3
- MAT AT 102* Mathematical Concepts/Applications (3)
- Any higher numbered MAT course (3) 3

Certificate 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
- WWM 130 Wastewater Collection Systems Operation and Maintenance 3
- WWM 132* Wastewater Collection Systems Administration 3
- WWM 134 Water Distribution System Operation and Maintenance 3

Restricted Electives: 6
Choose 6 credits from the following:
- BPC/CISxx Any BPC/CIS Course .5-3
- BIO 100 Biology Concepts 4
- BIO 181 General Biology (Majors) I 4
- CHM 130* Fundamental Chemistry (3) AND
- CHM 130LL* Fundamental Chemistry Lab (1) 1
- ENG 101* First-Year Composition 3
- ENG 111* Technical Writing 3
- MAT AT 102* Mathematical Concepts/Applications (3)
- Any higher numbered MAT course (3) 3

* Indicates course has a Prerequisite and/or Corequisite.
**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

- **WWM 110** Principles of Water Treatment Plant Operations 3
- **WWM 112** Basic Water Treatment Processes 3
- **WWM 114** Mineral Control 3
- **WWM 120** Operation of Wastewater Treatment Plants 3
- **WWM 122** Basic Wastewater Treatment Processes 3
- **WWM 124** Sludge and Solids Handling 3
- **WWM 130** Wastewater Collection Systems Operation and Maintenance 3
- **WWM 132** Wastewater Collection Systems Administration 3
- **WWM 134** Water Distribution System Operation and Maintenance 3
- **WWM 240** Industrial Wastewater Treatment Regulations 3

**Restricted Electives:** 9

Choose 9 credits from the following:

- **WWM xxx** Any Water/Wastewater Course(s) 1-3

**General Studies Requirements:** 25

**General Studies Core:** 15

**First-Year Composition** 6

- **ENG 101** First-Year Composition (3)
- **ENG 111** Technical Writing (3)

**Oral Communication** 3

- **COM 100** Introduction to Human Communication

**Critical Reading** 3

- **CRE 101** Critical and Evaluative Reading I (3)
- **CRE 111** Critical Reading for Business and Industry (3)

**Mathematics** 3

- **MAT 102** Mathematical Concepts/Applications (3)
- 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.*
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.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR102</td>
<td>Reservations/Sales Training I</td>
<td>3</td>
</tr>
<tr>
<td>AIR104*</td>
<td>Reservations/Sales Training II</td>
<td>3</td>
</tr>
<tr>
<td>AIR105*</td>
<td>Automated Ticketing (3)</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIR106*</td>
<td>Reservations/Sales Training III (3)</td>
<td>3</td>
</tr>
<tr>
<td>AIR110*</td>
<td>Advanced Reservations/Sales Training</td>
<td>2</td>
</tr>
</tbody>
</table>

■ Track 2
Airline Operations - Passenger Services 11

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR102</td>
<td>Reservations/Sales Training I</td>
<td>3</td>
</tr>
<tr>
<td>AIR110*</td>
<td>Advanced Reservations/Sales Training</td>
<td>2</td>
</tr>
<tr>
<td>AIR113*</td>
<td>Automated Ticketing and Check-In</td>
<td>3</td>
</tr>
<tr>
<td>AIR115*</td>
<td>Ticketing/Passenger Services</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIR103</td>
<td>Basic Reservations Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AIR112*</td>
<td>Airline Ticketing Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AIR116*</td>
<td>Airline Gate Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AIR119</td>
<td>Baggage Service/WorldTracer System (2)</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BPC xxx</td>
<td>Any Business-Personal Computer Course (2)</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS xxx</td>
<td>Any Computer Information Systems Course (2)</td>
<td></td>
</tr>
</tbody>
</table>

* Indicates course has a Prerequisite and/or Corequisite.

Modifications to programs and courses may occur throughout the academic year. For the most updated information on curriculum, see our website at:

http://www.rio.maricopa.edu/ci/programs/ or to speak to an academic advisor, call 480-517-8540.
### Associate in Applied Science in Airline Operations

**Required Courses:**
- Certificate of Completion in Airline Operations 10-12
- Certificate of Completion in Quality Customer Service 16

**Restricted Electives:**
Students must choose 11-13 industry/job specific elective credits and have them approved by the department chair.

**General Studies Requirements:**
- First-Year Composition 6
- Critical Reading 3

**General Studies Core:**
- Mathematics 3
- Oral Communication 3

**General Studies Distribution:**
- Humanities and Fine Arts 3
- Social and Behavioral Sciences 3

**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

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#### Track 3
**Airline Operations - Vacations**
- 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**
- 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**
- AIR140* Ramp Safety Procedures 2
- AIR142* Aircraft Dynamics 3
- AIR144* Team Lead Training 2
- BPC 110 Computer Usage and Applications (3)
- CIS105 Survey of Computer Information Systems (3)
- BPC 135xx Any Word Processing Course 2
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 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.

Required Courses: 11

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS175CE</td>
<td>Supporting Microsoft Windows 2000 Network Infrastructure</td>
<td>3</td>
</tr>
<tr>
<td>CIS175CF</td>
<td>Implementing and Administering Microsoft Windows 2000 Directory</td>
<td>3</td>
</tr>
<tr>
<td>CIS175DA</td>
<td>Microsoft Windows 2000 Directory and Operating System Essentials</td>
<td>2</td>
</tr>
<tr>
<td>CIS175DB</td>
<td>Implementing Microsoft Windows 2000 Professional</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

Required Courses: 12

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BPC170</td>
<td>Computer Maintenance I: A+ Preparation</td>
<td>3</td>
</tr>
<tr>
<td>CIS175CB</td>
<td>Designing Microsoft Windows 2000 Directory Services Infrastructure</td>
<td>2</td>
</tr>
<tr>
<td>CIS175CD</td>
<td>Designing Microsoft Windows 2000 Migration Strategy</td>
<td>1</td>
</tr>
<tr>
<td>CIS175CG</td>
<td>Designing a Secure Microsoft Windows 2000 Network</td>
<td>3</td>
</tr>
<tr>
<td>CIS176NA</td>
<td>Novell Netware Plus (3)</td>
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</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS175DE</td>
<td>Novell Network Plus (3)</td>
<td></td>
</tr>
<tr>
<td>CIS171DE</td>
<td>Novell Netware Plus (3)</td>
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</tr>
<tr>
<td>CIS171DE</td>
<td>Novell Netware Plus (3)</td>
<td></td>
</tr>
</tbody>
</table>

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.
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 A ny 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
Humans 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.

Required Courses: 18

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>LET 160*</td>
<td>Correctional Systems Ethics and Professionalism</td>
<td>1</td>
</tr>
<tr>
<td>LET 162*</td>
<td>Introduction to Inmate Management</td>
<td>3</td>
</tr>
<tr>
<td>LET 164*</td>
<td>Correctional Information Systems</td>
<td>1</td>
</tr>
<tr>
<td>LET 166*</td>
<td>Correction Officers Safety and Weapons Training</td>
<td>2</td>
</tr>
<tr>
<td>LET 168*</td>
<td>Inmate Security Procedures</td>
<td>2</td>
</tr>
<tr>
<td>LET 170*</td>
<td>Security, Custody and Control Procedures</td>
<td>2</td>
</tr>
<tr>
<td>LET 172*</td>
<td>Conflict and Crisis Management</td>
<td>2</td>
</tr>
<tr>
<td>LET 176*</td>
<td>Medical and Mental Health</td>
<td>2</td>
</tr>
<tr>
<td>LET 178*</td>
<td>Physical Fitness and Self Defense Training</td>
<td>3</td>
</tr>
</tbody>
</table>

*Indicates course has a Prerequisite and/or Co-requisite.
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

LET 161 Correctional Sergeant’s Leadership Procedures (3)

OR

MGT 229 Management and Leadership I (3)

OR

PAD 116 Supervisory Training for DOC Employees (3)

COM 110 Interpersonal Communication (3)

PO 5220 U.S. and Arizona Constitution (3)

OR

PO 5221 Arizona Constitution (1)

AND

PO 5222 U.S. Constitution (2)

PSY 101 Introduction to Psychology (3)

SOC 101 Introduction to Sociology (3)

Restricted Electives: 6

CIS 105 Survey of Computer Information Systems (3)

CIS 133DA The Internet/World Wide Web (3)

COM 263 Elements of Intercultural Communication (3)

LET 161 Correctional Sergeant’s Leadership Procedures (3)

MGT 229 Management and Leadership I (3)

PAD 116 Supervisory Training for DOC Employees (3)

PH 1243 World Religions (3)

PO 5100 Introduction to Political Science (3)

PSY 2xx* Any 200 Level Psychology Course (3)

SOC 2xx* Any 200 Level Sociology Course (3)

SPA 101 Elementary Spanish I (4)

SPA 115 Beginning Spanish Conversation I (3)

SPA 102* 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

General Studies Requirements: 25

General Studies Core: 15

First-Year Composition

ENG 101* First-Year Composition (3)

AND

ENG 102* First-Year Composition (3)

Oral Communication

COM 230* Small Group Communication (3)

Critical Reading

CRE 101* Critical and Evaluative Reading I (3)

OR

CRE 111* Critical Reading for Business and Industry (3)

OR

Equivalent as indicated by assessment

Mathematics

MAT 122* Intermediate Algebra (3)

General Studies Distribution: 10

Humanities and Fine Arts

Any approved general studies course in the Humanities and Fine Arts area.

Natural Sciences

Any approved general studies course in the Natural Sciences area.

Social and Behavioral Sciences

Any approved general studies course in the Social and Behavioral Sciences area.

Certificate(s) or Degree(s) Awarded:

Certificate of Completion in:

Basic Corrections (18 credits)

Advanced Corrections (21 credits)

Associate in Applied Science in:

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

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

**Required Courses:** 17

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>LET130*</td>
<td>Detention Officer Training</td>
<td>2</td>
</tr>
<tr>
<td>LET132*</td>
<td>Introduction to Correctional Law</td>
<td>3</td>
</tr>
<tr>
<td>LET134*</td>
<td>Detention Management I</td>
<td>2</td>
</tr>
<tr>
<td>LET135*</td>
<td>Detention Management II</td>
<td>2</td>
</tr>
<tr>
<td>LET136*</td>
<td>Detention Security Procedures</td>
<td>2</td>
</tr>
<tr>
<td>LET138*</td>
<td>Detention Officer Emergency Procedures</td>
<td>1</td>
</tr>
<tr>
<td>LET139*</td>
<td>Detention Facility Training</td>
<td>2</td>
</tr>
<tr>
<td>LET178*</td>
<td>Physical Fitness &amp; Self Defense Training</td>
<td>3</td>
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</table>

### Associate in Applied Science in Detention Services

**Required Courses:** 17

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Certificate of Completion in Detention Services</td>
<td>17</td>
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</table>

**Restricted Electives:** 22

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AJS101</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>AJS112</td>
<td>Wellness for Law Enforcement Officers</td>
<td>3</td>
</tr>
<tr>
<td>AJS124</td>
<td>Correctional Institutions</td>
<td>3</td>
</tr>
<tr>
<td>AJS200</td>
<td>Current Issues in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>BPCxxx</td>
<td>Any Business-Personal Computer course</td>
<td>1-3</td>
</tr>
<tr>
<td>LET100*</td>
<td>Introduction to Law Enforcement Technology</td>
<td>1</td>
</tr>
<tr>
<td>LET125*</td>
<td>Legal Aspects of Law Enforcement</td>
<td>2</td>
</tr>
<tr>
<td>LET140*</td>
<td>R.I.S.C. Team Training</td>
<td>1</td>
</tr>
<tr>
<td>LET190*</td>
<td>Human Communications &amp; Relations</td>
<td>1</td>
</tr>
<tr>
<td>LET230*</td>
<td>Cultural Awareness for Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>PSY101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY125</td>
<td>Leadership and Group Dynamics</td>
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</tr>
<tr>
<td>PSY211*</td>
<td>Crisis Management</td>
<td>3</td>
</tr>
<tr>
<td>PSY245*</td>
<td>Psychology of Adult Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY250*</td>
<td>Social Psychology</td>
<td>3</td>
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<tr>
<td>PSY266*</td>
<td>Abnormal Psychology</td>
<td>3</td>
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<tr>
<td>PSY270*</td>
<td>Personal and Social Adjustment</td>
<td>3</td>
</tr>
<tr>
<td>SOC110</td>
<td>Drugs and Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC140</td>
<td>Racial and Ethnic Minorities</td>
<td>3</td>
</tr>
<tr>
<td>SOC245*</td>
<td>Social Deviance</td>
<td>3</td>
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<tr>
<td>SPA109</td>
<td>Law Enforcement Spanish I</td>
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<tr>
<td>SPA209*</td>
<td>Intermediate Spanish for Law Enforcement</td>
<td>3</td>
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</table>

**General Studies Requirements:** 25

**General Studies Core:** 15

- **First-Year Composition:** 6
  - ENG 101* First-Year Composition (3)
  - OR
  - ENG 102* First-Year Composition (3)
  - OR
  - ENG 111* Technical Writing (3)

- **Oral Communication:** 3
  - COM 230* Small Group Communication

- **Critical Reading:** 3
  - CRE 101* Critical and Evaluative Reading I (3)
  - OR
  - CRE 111* Critical Reading for Business and Industry (3)
  - OR
  - Equivalent as indicated by assessment

**Mathematics:** 3

- MAT 122* Intermediate Algebra

**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**
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

<table>
<thead>
<tr>
<th>Required Courses:</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSC 102*</td>
<td>Fire Department Operations</td>
</tr>
<tr>
<td>FSC 105</td>
<td>Hazardous Materials/First Responder</td>
</tr>
<tr>
<td>FSC 108</td>
<td>Fundamentals of Fire Prevention</td>
</tr>
<tr>
<td>FSC 113</td>
<td>Introduction to Fire Suppression</td>
</tr>
<tr>
<td>FSC 117</td>
<td>Fire Apparatus</td>
</tr>
<tr>
<td>FSC 134</td>
<td>Fitness and Conditioning/Firefighters</td>
</tr>
<tr>
<td>FSC 208*</td>
<td>Firefighter Safety and Building Construction</td>
</tr>
<tr>
<td>FSC 209</td>
<td>Fire Investigation</td>
</tr>
<tr>
<td>FSC 238*</td>
<td>Vehicular Extrication and Patient Stabilization</td>
</tr>
<tr>
<td>FSC 290A</td>
<td>Arson Investigation</td>
</tr>
<tr>
<td>PED 101H</td>
<td>Physical Activities: Fitness for Life</td>
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</tbody>
</table>

Associate in Applied Science in Fire Science

<table>
<thead>
<tr>
<th>Required Courses:</th>
<th>42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate of Completion in Fire Science</td>
<td>36</td>
</tr>
<tr>
<td>FSC 118</td>
<td>Fire Hydraulics</td>
</tr>
<tr>
<td>FSC 204*</td>
<td>Firefighters Tactics and Strategy</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>General Studies Requirements:</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Studies Core:</td>
<td>15</td>
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<tr>
<td>First-Year Composition</td>
<td>6</td>
</tr>
<tr>
<td>ENG 101*</td>
<td>First-Year Composition (3)</td>
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<td>AND</td>
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<tr>
<td>ENG 102*</td>
<td>First-Year Composition (3)</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>ENG 111*</td>
<td>Technical Writing (3)</td>
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</table>

<table>
<thead>
<tr>
<th>Oral Communication</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 110</td>
<td>Interpersonal Communication (3)</td>
</tr>
<tr>
<td>OR</td>
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</tr>
<tr>
<td>COM 225*</td>
<td>Public Speaking (3)</td>
</tr>
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<td>OR</td>
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<tr>
<td>COM 230*</td>
<td>Small Group Communication (3)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Critical Reading</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRE 101*</td>
<td>Critical and Evaluative Reading I (3)</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>CRE 111*</td>
<td>Critical Reading for Business and Industry (3)</td>
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<td>OR</td>
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<tr>
<td>Equivalent as indicated by assessment</td>
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<table>
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<th>Mathematics</th>
<th>3</th>
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<tr>
<td>MAT 102*</td>
<td>Mathematical Concepts/Applications (3)</td>
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<td>OR</td>
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<tr>
<td>MAT 122*</td>
<td>Intermediate Algebra (3)</td>
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<td>OR</td>
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<td>Equivalent as indicated by assessment</td>
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</tbody>
</table>

Satisfactory completion of a higher level MAT course

General Studies Distribution: 10

<table>
<thead>
<tr>
<th>Humanities and Fine Arts</th>
<th>3</th>
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</thead>
<tbody>
<tr>
<td>Any approved general studies course in the Humanities and Fine Arts area.</td>
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</table>

<table>
<thead>
<tr>
<th>Natural Sciences</th>
<th>4</th>
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<tbody>
<tr>
<td>Any approved general studies course in the Natural Sciences area, but BIO 105, Environmental Biology (4) OR BIO 156, Human Biology for Allied Health (4) OR CHM 130*, Fundamental Chemistry (3), AND CHM 130L*, Fundamental Chemistry Lab (1) are recommended.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Social and Behavioral Sciences</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any approved general studies course in the Social and Behavioral Sciences area, but SOC 101, Introduction to Sociology, is recommended.</td>
<td></td>
</tr>
</tbody>
</table>

Certificate(s) or Degree(s) Awarded:

<table>
<thead>
<tr>
<th>Certificate of Completion in:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Science (36 credits)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Associate in Applied Science in:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Science (67 credits)</td>
<td></td>
</tr>
</tbody>
</table>

Students must earn a grade of “C” or better for all courses required within the program.

Minimum GPA 2.00
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

Required Courses: 39

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LET100*</td>
<td>Intro to Law Enforcement Technology</td>
<td>1</td>
</tr>
<tr>
<td>LET102*</td>
<td>Criminal Investigation</td>
<td>4</td>
</tr>
<tr>
<td>LET106*</td>
<td>Patrol Procedures</td>
<td>2</td>
</tr>
<tr>
<td>LET109*</td>
<td>Criminal Law</td>
<td>2</td>
</tr>
<tr>
<td>LET111*</td>
<td>Tactical Driving</td>
<td>2</td>
</tr>
<tr>
<td>LET119*</td>
<td>Community Relations</td>
<td>1</td>
</tr>
<tr>
<td>LET125*</td>
<td>Legal Aspects of Law Enforcement</td>
<td>2</td>
</tr>
<tr>
<td>LET127*</td>
<td>Field Problems</td>
<td>2</td>
</tr>
<tr>
<td>LET143</td>
<td>Physical Conditioning and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>LET145*</td>
<td>Arrest/Defense Tactics</td>
<td>5</td>
</tr>
<tr>
<td>LET150*</td>
<td>Firearms I</td>
<td>3</td>
</tr>
<tr>
<td>LET151*</td>
<td>Firearms II</td>
<td>2</td>
</tr>
<tr>
<td>LET156*</td>
<td>First Aid</td>
<td>2</td>
</tr>
<tr>
<td>LET190*</td>
<td>Human Communications and Relations</td>
<td>1</td>
</tr>
<tr>
<td>LET202*</td>
<td>Traffic Procedures</td>
<td>2</td>
</tr>
<tr>
<td>LET203*</td>
<td>Report Writing</td>
<td>2</td>
</tr>
<tr>
<td>LET211*</td>
<td>Criminalistics</td>
<td>2</td>
</tr>
<tr>
<td>LET223*</td>
<td>Search and Seizure</td>
<td>1</td>
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Certificate of Completion in Public Safety Technology

Required Courses: 14

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LET152*</td>
<td>Tactical Weapons</td>
<td>2</td>
</tr>
<tr>
<td>LET179*</td>
<td>Traffic Enforcement Procedures</td>
<td>2</td>
</tr>
<tr>
<td>LET183*</td>
<td>Traffic Offenses</td>
<td>2</td>
</tr>
<tr>
<td>LET188*</td>
<td>Vehicle Inspection</td>
<td>3</td>
</tr>
<tr>
<td>LET250*</td>
<td>D UI D etection</td>
<td>2</td>
</tr>
<tr>
<td>LET260*</td>
<td>Traffic Accident Investigation</td>
<td>3</td>
</tr>
</tbody>
</table>

Certificate of Completion in Law Enforcement Field Training

Required Courses: 18

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LET279A A*</td>
<td>Field Training: Phase I</td>
<td>4</td>
</tr>
<tr>
<td>LET279A B*</td>
<td>Field Training: Phase II</td>
<td>5</td>
</tr>
<tr>
<td>LET279C A*</td>
<td>Field Training: Phase III</td>
<td>5</td>
</tr>
<tr>
<td>LET279D A*</td>
<td>Field Training: Phase IV</td>
<td>4</td>
</tr>
</tbody>
</table>

Certificate(s) or Degree(s) Awarded:

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)

Minimum GPA 2.00

* Indicates course has a Prerequisite and/or Corequisite.
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.

Required Courses: 13
- COM 110 Interpersonal Communication 3
- GBS175 Professional Development 3
- TQM 101 Quality Customer Service 3
- TQM 105* Writing for Quality Results 2
- TQM 230 Teamwork Dynamics 2

Restricted Electives: 3
Choose 3 credits from the following:
- BPC 117xx (any module) 1
- BPC 130xx (any module) 1
- MGT 172 Organizations, Paradigms, and Change 1
- TQM 200 Leadership for Front-Line Employees 2
- TQM 205 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 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. Courses will cover application and verification processes, basic eligibility determination, and case management.

Required Courses: 9
- HSA 101 Medical Assistance Customer Service 1
- HSA 110* Eligibility Criteria I 2
- HSA 115 Eligibility Criteria II 2

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.

Required Courses: 18
- HSA 112 Assistance Office Procedures 2
- HSA 114 Assistance Applications 3
- HSA 116 Assistance Determination 3
- HSA 118 Medical Assistance Determination 3
- HSA 222 Advanced Eligibility Determination I 3
- HSA 224 Advanced Eligibility Determination II 2
- HSA 226 Advanced Eligibility Determination III 2

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.

Required Courses: 11
- BPC 119* Basic Data Entry Activities 1
- HSA 160 Employment Assistance Administration I 3
- HSA 162* Employment Assistance Administration II 3
- HSA 170 Employment & Training Administration I 2
- HSA 172* 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.
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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>UCS101</td>
<td>Introduction to Billing</td>
<td>3</td>
</tr>
<tr>
<td>UCS110</td>
<td>Meter and Trouble Orders</td>
<td>2</td>
</tr>
<tr>
<td>UCS120</td>
<td>Payments, Credits and Rates</td>
<td>3</td>
</tr>
<tr>
<td>UCS130</td>
<td>Service Orders I</td>
<td>3</td>
</tr>
<tr>
<td>UCS135*</td>
<td>Service Orders II</td>
<td>2</td>
</tr>
<tr>
<td>UCS140*</td>
<td>Service Order Procedures</td>
<td>2</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCS105</td>
<td>Introduction to Public Utility</td>
<td>2</td>
</tr>
<tr>
<td>UCS122*</td>
<td>Public Utility Orders</td>
<td>3</td>
</tr>
<tr>
<td>UCS124*</td>
<td>Public Utility Orders Lab</td>
<td>3</td>
</tr>
<tr>
<td>UCS126*</td>
<td>Public Utility Service Practices</td>
<td>2</td>
</tr>
<tr>
<td>UCS132*</td>
<td>Advanced Public Utility Processing</td>
<td>3</td>
</tr>
<tr>
<td>UCS134*</td>
<td>Advanced Public Utility Processing Lab</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMX125</td>
<td>Fundamentals of Cardmember Assistance</td>
<td>2</td>
</tr>
<tr>
<td>AMX127*</td>
<td>Credit Related Inquiries</td>
<td>3</td>
</tr>
<tr>
<td>AMX129*</td>
<td>Account Maintenance</td>
<td>2</td>
</tr>
<tr>
<td>AMX220*</td>
<td>Billing Audit</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR160</td>
<td>Reservation/Booking Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AIR161*</td>
<td>Airline Reservations System</td>
<td>2</td>
</tr>
</tbody>
</table>

AND

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR162</td>
<td>Airline Booking Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>AIR163</td>
<td>Airline Booking Procedures II</td>
<td>3</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVL117*</td>
<td>Travel Industry Reservations</td>
<td>3</td>
</tr>
<tr>
<td>TVL119*</td>
<td>Travel Industry Reservations Lab</td>
<td>3</td>
</tr>
</tbody>
</table>

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.
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 Customer Service 3
- CSR173* Telecommunications Billing/Rates 3
- CSR174* Inquiries and Adjustments 3
- CSR175* Telecommunications Sales, Products and Features 3
- CSR176* Customer Contact Associate Lab 2

General Studies Requirements: 25
General Studies Core: 15
- First-Year Composition 6
  - ENG 101* First-Year Composition (3)
  - ENG 102* First-Year Composition (3)
  - OR
  - ENG 111* Technical Writing (3)
- Oral Communication 3
  - COM 230* Small Group Communication
- Critical Reading 3
  - CRE 101* Critical and Evaluative Reading I (3)
  - OR
  - CRE 111* Critical Reading for Business and Industry (3)
  - OR
  - Equivalent as indicated by assessment
- Mathematics 3
  - MAT 102* 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
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
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.

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
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.

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 MCCCD 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

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

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

Microcomputer Accounting
(GS 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

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 Desktop Publishing
RS Networking
RS Programming
RS Basic Systems Engineer
RS Technology Helpdesk Support
RS Technology Troubleshooting & A+ Preparation

CONTINUED
### Districtwide Occupational Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Colleges</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer Applications:</strong></td>
<td>CG, EM, GC, GW, PC, PV, SC, SM</td>
</tr>
<tr>
<td>Office Specialist/Core Level</td>
<td>EM, PC, PV, SC, SM</td>
</tr>
<tr>
<td>Office Specialist/Expert Level</td>
<td>GC, MC, PV, SC, SM</td>
</tr>
<tr>
<td>Microcomputer Applications</td>
<td>MC, PV, RS, SC, SM</td>
</tr>
<tr>
<td>Microcomputer Business Applications</td>
<td>GC, MC, PV, RS, SC, SM</td>
</tr>
<tr>
<td>Microsoft Networking Technology</td>
<td>MC, PV, RS, SC, SM</td>
</tr>
<tr>
<td>Network Administration</td>
<td>EM, GC, GW, MC, PC</td>
</tr>
<tr>
<td>Network Support</td>
<td>GC, GW, MC, PC</td>
</tr>
<tr>
<td>Networking Administration: Cisco</td>
<td>EM, GC, GW, MC, PC</td>
</tr>
<tr>
<td>Networking System Administration</td>
<td>EM, GC, GW, MC, PC</td>
</tr>
<tr>
<td>Networking Technology: Cisco</td>
<td>GC, MC, PV, RS, SC, SM</td>
</tr>
<tr>
<td>Personal Computer Applications</td>
<td>GC, MC, PV, RS, SC, SM</td>
</tr>
<tr>
<td>Programming M et hodology</td>
<td>EM, GC, GW, MC, PC</td>
</tr>
<tr>
<td>Programming and System Analysis</td>
<td>EM, GC, GW, MC, PC</td>
</tr>
<tr>
<td><strong>Finance</strong></td>
<td>GC, MC</td>
</tr>
<tr>
<td>Banking and Finance</td>
<td>GC, MC</td>
</tr>
<tr>
<td>Real Estate</td>
<td>GC, MC</td>
</tr>
<tr>
<td><strong>Management</strong></td>
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</tr>
<tr>
<td>Business Management</td>
<td>CG, MC, PC, PV</td>
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<td>Credit Union Management</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Credit Union Management I</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Credit Union Management II</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>General Business</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Management</td>
<td>CG, MC, PC, PV</td>
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<tr>
<td>Management I</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Management II</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Materials Management</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Public Relations</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Marketing</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Small Business Management</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Retail Management</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td><strong>Middle Management</strong></td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Public Relations</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td><strong>Media Technology</strong></td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Motion Picture/Television Production</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Acting and Directing</td>
<td>CG, MC, PC, PV</td>
</tr>
<tr>
<td>Broadcasting</td>
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**Key to Colleges**
- CG: Chandler Gilbert Community College
- EM: Estrella Mountain Community College
- GC: Glendale Community College
- GW: Gateway Community College
- MC: Mesa Community College
- PC: Phoenix College
- PV: Paradise Valley Community College
- RS: Rio Salado College
- SC: Scottsdale Community College
- SM: South Mountain Community College
### Office Occupations

- **PV** Administrative Information
- **EM, GC** Administrative Office Coordinator
- **MC** Administrative Office Professional
- **GC** Call Center Supervision
- **PV** Computer Software Applications
- **GW** Court Clerks
- **GW** Court Reporting
- **EM, GC** Data Entry Clerk
- **EM, GC** General Office Secretary
  - **PC** Legal Assistant
  - **PC** Legal Secretary
  - **PC** Legal Office Support
  - **PC** Medical Office Support
  - **PC** Medical Office Support: Basic Clerical
  - **PC** Medical Office Support: Basic Transcription
- **GW, PV, SC, SM** Office Automation Systems
- **EM, GC** Office Coordinator
- **SC** Office Fundamentals
- **GW** Office Specialist: Computer Applications
- **GW, PC** Office Support
- **PC** Office Support I
- **PC** Office Support II
- **EM, GC** Receptionist
- **GW** Scoping
- **SC** Word Processing

### Total Quality Management

- **EM, GW, MC, PC, PV, RS** Organizational Leadership
- **GW, MC, PC, PV, RS** Quality Customer Service
  - **RS** Credit Card: Customer Service
  - **RS** Human Services: Assistance: Customer Service
  - **RS** Human Services: Eligibility: Customer Service
  - **RS** Telecommunications: Customer Service
  - **RS** Travel Agency: Customer Service
  - **RS** Utilities Customer Service
- **EM, GW, MC, PC, PV, RS** Quality Process Leadership
- **EM, GC** Total Quality Management

### HEALTH OCCUPATIONS

#### Allied Health

- **MC** Community Health Advocate, Diabetes
- **GC, CG** Developmental Disabilities Specialist

- **GW** Diagnostic Medical Ultrasound Technology
- **MC** Direct Care Practice
- **PC** EKG/Telemetry Technician
- **PC** Health Information
- **PC** Health Information Technology
- **GW** Health Services Management
- **GW** Hospital Central Service
- **PC** Medical Assisting
- **PC** Clinical Medical Assisting
- **PC** Medical Billing
- **PC** Medical Coding: Physician Based
- **PC** Medical Front Office
- **GW** Medical Radiography
- **GW** Medical Transcription
- **GW** Nuclear Medicine Technology
- **PC** Patient Care Technician
- **GW** Perioperative Nursing
- **PC** Phlebotomy
- **GW** Physical Therapist Assisting
- **SC** Radiography
- **GW** Respiratory Care
- **GW** Respiratory Care Technology
- **SC** Speech Language Pathology
- **GW** Surgical Technician First Assistant
- **GW** Surgical Technology

#### Dental

- **RS** AzDA Clinical Dental Assisting
- **PC** Dental Assisting
- **PC, RS** Dental Hygiene
- **PC** Dental Office Management

#### Emergency Medical Technology

- **GC, PC, SC** Advanced Emergency Medical Technology (Paramedic)
- **GC, MC, PC, SC** Basic Emergency Medical Technology
- **PC** Emergency Communications and Deployment
- **GC, MC, PC** Intermediate Emergency Medical Technology
  (See Allied Health section for additional information and related areas)
- **MC** Paramedicine

#### Nursing

- **GC, GW, MC, PC, SC** Nurse Assisting
- **GC, GW, MC, PC, SC** Practical Nursing
## Districtwide Occupational Programs

### HOME ECONOMICS

- **Early Childhood Education**
  - PC A dolescent Studies
  - MC Child Care
  - PC Child Care Administration
  - MC Child Development
  - PC Classroom Management for Infants, Toddlers and Preschool Children

- **Early Childhood Development**
  - SC, SM Early Childhood Development

- **Education**
  - MC Bilingual Teacher Aide
  - MC Teacher Assisting

- **Food and Nutrition**
  - PC Commercial Food Preparation
  - PC Culinary Studies

- **Dietetic Technology**
  - PV Dietetic Technology

- **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

- **Interior Design**
  - MC, PC Advanced Interior Design

- **Merchandising**
  - MC Apparel Merchandising
  - PC Fashion Merchandising

### SERVICE OCCUPATIONS

- **Administration of Justice**
  - GC, MC, PC Administration of Justice
  - PC Administration of Justice
  - MC Administration of Justice
  - 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 Officer Training
  - PC Corrections Supervision/Mangement
  - 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

- **Justice Agencies Support**
  - 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

- **Police Science**
  - GC, MC Police Science I
  - GC, MC Police Science II
  - GC, MC 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

<table>
<thead>
<tr>
<th>CG</th>
<th>Chandler Gilbert Community College</th>
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<td>EM</td>
<td>Estrella Mountain Community College</td>
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<td>Phoenix College</td>
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<td>Scottsdale Community College</td>
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<tr>
<td>SM</td>
<td>South Mountain Community College</td>
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</tbody>
</table>
Fire Science
- Basic Firefighter
- Fire Academy
- Fire Officer I
- Fire Science Technology
- Recruit Firefighters

Hospitality
- Airline Operations
- Culinary Arts
- Hospitality/Hotel Management
- Hospitality and Tourism/Management
- Hospitality and Tourism/Hotel Management
- Hospitality and Tourism/Restaurant Management
- Travel Industry Technology

Library Media Technology
- Books and Print Material
- General Proficiency in Library and Information Resource Management
- Information and Customer Service
- Library and Information Resource Management
- Library and Information Systems
- Media/Multi-media for Libraries
- Online and Electronic Resources

Mortuary Science
- Mortuary Science

Parks, Recreation, Leisure and Fitness Studies
- Recreational Resources and Facilities Management
- Recreational Resources and Facilities Management: Horticulture
- Recreational Resources and Facilities Management: Equipment Maintenance and Repair
- Recreational Resources and Facilities Management: Pesticides
- Recreational Resources and Facilities Management: Pro Shop Management
- Recreational Resources and Facilities Management: Turf and Irrigation

Health and Physical Education/Fitness
- Teaching, Healing Meditation & Stress Management
- Therapeutic Massage

Social Sciences
- Aerobics Instructor
- Chemical Dependency
- Chemical Dependency Level I
- Chemical Dependency Level II
- Interpreter Preparation
- Personal Trainer
- Sign Language Communication Pre-Employment

Social Services
- Advanced Aging Services Management and Administrative Training
- Aging Services Management and Administrative Training
- Assisted Living: Directed Care Services
- Assisted Living: Management
- Assisted Living: Personal Care Services
- Assisted Living: Supervisory Care Services
- Basic Mediation
- Gerontology
- Human Services
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 Diesel Engines
MC Automotive Electrical Systems

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 Design
GC Microcomputer Servicing
MC Process Technology Level I
MC Process Technology Level II

Key to Colleges
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### Districtwide Occupational Programs

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<tr>
<th>Program</th>
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<td>Cable Telecommunications Installation</td>
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<td>GC, MC</td>
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**RIO SALADO COLLEGE CATALOG 2001-2002**

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**MCCCD INFORMATION**
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)

**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

**Nursing (Levels II and III)**
- Nursing Assistant
- Practical Nursing

**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

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.
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.

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

IN THIS SECTION
Non-Discrimination Policy
Póliza de No Descriminación
Compliance with Policies, Rules and Regulations
Alcohol and Drug Policies
Computing Resource Standards
Disciplinary Standards
Grading
The MCCCD 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
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 Opportunity 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
Porter de No Descriminación

Es la póliza de los Colegios Comunitarios del Condado de Maricopa que consisten del Centro de Apoyo del Distrito, los colegios comunitarios de Chandler-Gilbert, Estrella Mounatin, Gateway, Glendale, Mesa, Paradise Valley, Phoenix, Río Salado, Scottsdale, South Mountain y el Centro de Capacitación de M aricopa, proveer igualdad en las oportunidades de empleo mediante un programa continuo positivo. Esto significa que Maricopa no descriminará ni tolerará descriminación en contra de ningún aplicante o empleado debido a su raza, color, religión, sexo, orientación sexual, nacionalidad, edad, incapacidad o por ser veterano incapacitado. A lo 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 la raza, color, religión, sexo, orientación sexual, nacionalidad, edad y condición de veterano de cualquier individuo.

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 descriminará ni tolerará descriminación 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 para Individuos con Incapacidades

De acuerdo a lo que provee la Sección 503 de la L ley de Rehabilitación de 1973, como enmienda, y las leyes de implementación, 41 C FR 60-741.5 (a), declara el Distrito de Colegios Comunitarios de Maricopa no descriminarán ni tolerarán descriminación en contra de ninguna aplicante o empleado debido a su desabilidad/incapacidad física o mental referente a cualquier posición para la cual 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 incapi en sus incapacidades físicas o mentales en la selección de recursos humanos y prácticas decisivas como son las siguientes: anuncios, beneficios, compensación, disciplina (incluyendo periodo de prueba, suspensión, y/o terminación de empleo por causa de paro forzoso), facilidades para empleados, evaluación de trabajo, recrutamiento, programas sociales/recreacionales y entre- namiento. Maricopa continuará llevando a cabo éstas prácticas de no descriminar por razones de raza, color, religión, sexo, orientación sexual, nacionalidad, edad, incapacidad o estado de veterano. Así mismo, todos los aplicantes y empleados están protegidos en contra de coacción, intimidación, interferencia o descriminación por quejas o por ayudar en una investigación cubierta bajo éste A cto.

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 1973, acta de O portundades de Em pleo para Veteranos de 1998 y reglamentos de implemen-tación, 41 C FR 60-250(k), el Distrito de Colegios Comunitarios del Condado de Maricopa no descriminará ni tolerará descriminación en contra de ningún aplicante o empleado veterano o veterano de la Era Vietnamita con desabilidad/incapacitación especial referente a cualquier posición para la cual dicho aplicante o empleado califique. Maricopa promete aplicar acción afirmativa para emplear,
ascender en empleo y tratar a dichos veteranos incapacitados y de la Era Vietnamita que califiquen sin discriminar base a su desabilidad/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/recreatacionales 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
AAsociate Dean of Student Services, ADA/504/Coordi- nador 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. A 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
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 reg-
ulations).

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.

M A r i j u a n a : A first offense for possession or use of marijua-
na 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.

L S D : Possession, use and sale of LSD are felonies carrying
prison sentences from four to five years and fines of not less
than $1,000.

H e r o i n a n d C o c a i n e : 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.

A n a b o l i c S t e r o i d s : Possession, use and sale of these with-
out a valid prescription or for non-therapeutic use is a
Class 4 Felony.

VI. Controlled Substances

■ Drugs

Opium
Morphine
Codeine
(Pethidine)
Possible E f f e c t s ...
Euphoria, drowsiness, respiratory, depression, constricted
pupils, nausea.

Effects of ...
Slow and shallow breathing, clammy skin, convulsions,
coma, possible death.

■ Depressants

Chloral H y d r a t e  Benzodiazepines  G lutethimide
Barbiturates  M ethaqualone  O ther D epressants
Possible E f f e c t s ...
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

Coca i n e  P henmetrazine  O ther S timulants
A mphetamines  M ethylphenidate
Possible E f f e c t s ...
Increased alertness, excitement, increased pulse rate and
blood pressure, insomnia, loss of appetite.
Effects of ...
Agitation, increase in body temperature, hallucinations,
convulsions, possible death.

■ Hallucinogens

L S D  A mphetamine  A n gel D ust
M escaline  V  ariants
Peyote  P C P
Possible E f f e c t s ...
Rambing speech, illusions and hallucinations, poor per-
ception of time and distance.
Effects of ...
Longer more intense "trip" episodes, psychosis possible
death.

■ Cannabis

M a r i j u a n a  H ashish
T etrahydrocannabinol  H ashish O il
Possible E f f e c t s ...
E uphoria, relaxed inhibitions, increased appetite disorient-
ed behavior.
Effects of ...
Addiction, accidents, overdose if mixed with other drugs.

■ Alcohol

B eer  W ine  L iquor
Possible E f f e c t s ...
Impaired memory, coordination, reflexes, speech, judg-
ment, blackouts, withdrawal, D T ’s, death.
Effects of ...
Addiction, accidents, overdose if mixed with other drugs.
### VII. Maricopa County Resources: Substance Abuse Information, Assistance and Counseling

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<tbody>
<tr>
<td>4210 N. Longview Phoenix, AZ 85014 602-277-7527</td>
<td>2701 N. 16th Street, Suite 103 Phoenix, AZ 85006 602-264-6214</td>
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<tr>
<td>2. Alcoholics Anonymous</td>
<td></td>
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<tr>
<td>4602 N. Seventh St. Phoenix, AZ 85014 602-264-1341</td>
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<tr>
<td>3. Calvary Rehabilitation Center</td>
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<tr>
<td>720 E. M ontelbano A venue Phoenix, AZ 85014 602-279-1468</td>
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<td>4. Casa de Amigas</td>
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<tr>
<td>1648 W. C olter, #8 Phoenix, AZ 85015 602-265-9987</td>
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<tr>
<td>5. Chicanos por la Causa</td>
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<tr>
<td>1112 E. Buckeye Road Phoenix, AZ 85034-4043 602-257-0700</td>
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<tr>
<td>6. Ebony House</td>
<td></td>
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<tr>
<td>6222 S. 13th Street Phoenix, AZ 85040 602-276-4288</td>
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<tr>
<td>7. East Valley Addiction Council (EVAC)</td>
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<tr>
<td>560 S. B ellview, Bldg. #2 Mesa, AZ 85204 480-962-7711</td>
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<td>8. Indian Rehabilitation, Inc.</td>
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<tr>
<td>650 N. 2nd A venue Phoenix, AZ 85003 602-254-3247</td>
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<td>9. Meta Center - LARC</td>
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<tr>
<td>2770 E. Van Buren Phoenix, AZ 85008-6039 602-273-9999</td>
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<tr>
<td>10. Maverick House</td>
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<tr>
<td>7022 N. 48th A venue Glendale, AZ 85301 623-931-5810</td>
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<td>12. New Arizona Family, Inc.</td>
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<tr>
<td>3301 E. Pinchot Phoenix, AZ 85015 602-381-0680</td>
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<tr>
<td>13. Terros, Inc.</td>
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<tr>
<td>2830 W. G lendale, Suite 26 Phoenix, AZ 85051 602-995-1486</td>
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<tr>
<td>14. Terros, Inc.</td>
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<tr>
<td>320 E. V irginia A venue Phoenix, AZ 85004 602-995-1486</td>
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<td>15. Northwest Organization of Voluntary Alternatives (NOVA)</td>
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<tr>
<td>7725 N. 43rd A venue, Suite 522 Phoenix, AZ 85051 623-937-9203</td>
<td></td>
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<tr>
<td>16. PARC Place (Phoenix Adolescent Recovery Center)</td>
<td></td>
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<tr>
<td>2190 N. G race Blvd. Chandler, AZ 85224 480-917-9301</td>
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<td>17. PELM's House (Men)</td>
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<tr>
<td>11773 N. 91st A venue Peoria, AZ 85345 623-979-6571</td>
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<tr>
<td>18. Salvation Army Harbour Light</td>
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<tr>
<td>2707 E. Van Buren Phoenix, AZ 85008 602-267-1404</td>
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<td>19. Southwest Behavioral Health Services</td>
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<tr>
<td>315 E. W atkins Phoenix, AZ 85004 602-268-8748</td>
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<tr>
<td>20. Valle Del Sol, Inc.</td>
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<tr>
<td>1209 S. First A venue Phoenix, AZ 85003 602-258-6797</td>
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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 these 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.

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 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.

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.
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.

*M isconduct 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

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
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
YW  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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Grade</th>
<th>Credit Grade</th>
<th>Points Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>3</td>
<td>B</td>
<td>3</td>
<td>9 (3x)</td>
</tr>
<tr>
<td>GPH 101</td>
<td>4</td>
<td>C</td>
<td>2</td>
<td>8 (4x2)</td>
</tr>
<tr>
<td>HES 151</td>
<td>2</td>
<td>A</td>
<td>4</td>
<td>8 (2x4)</td>
</tr>
<tr>
<td>PED 101</td>
<td>1</td>
<td>D</td>
<td>1</td>
<td>1 (1x1)</td>
</tr>
<tr>
<td>CHM 101</td>
<td>5</td>
<td>C</td>
<td>2</td>
<td>10 (5x2)</td>
</tr>
</tbody>
</table>

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.

Grades 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 will 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 after the last day of class in which 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 Admissions 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.
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.
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 college/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 MCCCD 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 MCCCD 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.

MCCCD Health Care Integrated Educational System

To respond to the dynamic changes occurring in health care arena and health professions’ practice, the MCCCD 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

Students must satisfactorily achieve the Level I Common Competencies found in the following courses.

- HCC130AA: Health Care Today
- HCC130AB: Workplace Behavior in Health Care
- HCC130AC: Personal Wellness and Safety
- HCC130AD: Communication and Teamwork in Health Care Organizations

Level II - Common Competencies

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
- HCC130AF: Decision Making in the Health Care Setting
- HCC145AA: Medical Terminology for Health Care Workers I
- HCC145AB: Medical Terminology for Health Care Workers II
- HCC145AC: Medical Terminology for Health Care Workers III

Level II - Shared and Program Competencies

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*

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.
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, M SC)
- 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, M SC, 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 (MCC) 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 MCCCD colleges and Skill Centers.
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 the 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 minimum. 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 Polices 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.

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.
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:

<table>
<thead>
<tr>
<th>Credit Hours for Which Grade Points are Computed at Resident Maricopa Community College Minimum Grade Point Average Required</th>
<th>Average Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 - 15</td>
<td>1.60</td>
</tr>
<tr>
<td>16 - 30</td>
<td>1.75</td>
</tr>
<tr>
<td>31 - 45</td>
<td>1.90</td>
</tr>
<tr>
<td>46 +</td>
<td>2.00</td>
</tr>
</tbody>
</table>

(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 M inimum Grade Point (A, B, C, D, F and Y)

<table>
<thead>
<tr>
<th>Average Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 - 15</td>
</tr>
<tr>
<td>16 - 30</td>
</tr>
<tr>
<td>31 - 45</td>
</tr>
<tr>
<td>46 +</td>
</tr>
</tbody>
</table>

Department of Veterans 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

• 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 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.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Murder and Non-negligent Manslaughter</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Negligent Manslaughter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forcible Sex Offense</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Non-Forcible Sex Offense</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Robbery</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aggravated Assault</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Burglary</td>
<td>x</td>
<td>3</td>
<td>5</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Arson</td>
<td></td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Motor Vehicle Theft</td>
<td></td>
<td>x</td>
<td>2</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Arrests For:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liquor Law Violation</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Drug Abuse Violation</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Weapons Possession</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Disciplinary Referrals For:</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Liquor Law Violation</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Drug Abuse Violation</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Weapons Possession</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

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 requirement. 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 make-up 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 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**
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 law, 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.

Student Rights 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 college provides for the maintenance of records in question 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.

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.

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.
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. W withdrawals completed after this time will result in a grade of W (withdrawn, passing) or Y (withdrawn, failing).

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) Degree for specific majors at identified public and private colleges and universities.

CONTINUED
**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 West: [http://www.west.asu.edu/tranguid/](http://www.west.asu.edu/tranguid/)
- Northern Arizona University: [http://www.nau.edu/regis/transguide/info.htm](http://www.nau.edu/regis/transguide/info.htm)
- The University of Arizona: [http://w3.arizona.edu/~oncourse/tguides](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 sites:

- [http://www.az.transfer.org/cas/](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, AGEC B or AGEC S) certified on a student transcript transfers to MCCCD as a block and fulfills the corresponding AGEC.

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
AJE 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 Cover - PAGE 168
CPD Counseling and Personal Development - PAGE 167
CRE Critical Reading - PAGE 200
CSC Computer Sciences - PAGE 167
CSR 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
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
WWW Water/Wastewater Management - PAGE 205

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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
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.

AJS200 3 Credits
Current Issues in Criminal Justice
Examines current issues, techniques and trends in the Criminal Justice System. Prerequisites: None.

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

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 Reservations/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 policies, 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.
Tour Sales Techniques
Sales techniques for Tour Sales Representatives. Emphasis on sales techniques for vacation tour packages. Prerequisites: None. Corequisites: AIR130, AIR132, AIR136.

Vacation Travel Booking Procedures
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.

Ramp Safety Procedures
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.

Aircraft Dynamics
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.

Team Lead Training
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.

Loadmaster Operations
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.

Introduction to International Sales
International booking agent responsibilities. Includes geographical indicators and international carriers as well as cultural overview of Mexico and Canada. Prerequisites: Departmental Approval.

International Operations and Programs
Overview of international operations and programs for airline booking agents. Includes ground operations, heck-in 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.

International Reservations and Fares
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.

Reservation/Booking Procedures
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.

Airline Reservations System
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.

Airline Booking Procedures I
Travel customer booking procedures. Includes communication skills, fare quotes and sale closure. Also covers special services and shipping procedures. Prerequisites: None.

Airline Booking Procedures II
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.

Overview of Flight Schedules/Itineraries
Basic reservation information including flight schedules, itineraries, and fares. Handling travel agent calls also covered. Prerequisites: None.
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.

**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-
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: BIO 201 or permission of instructor.

**BIO205  4 Credits**  
**Microbiology**  
Study of microorganisms and their relationship to health, ecology, and related fields. Prerequisites: BIO156, or BIO 181, 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.
### Chemical Dependency

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD145</td>
<td>1 Credit</td>
<td>AIDS and Chemical Dependency</td>
<td>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.</td>
</tr>
<tr>
<td>CHD161</td>
<td>3 Credits</td>
<td>Beginning Interviewing &amp; Documentation Skills</td>
<td>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, BH5205, and CHD150.</td>
</tr>
<tr>
<td>CHD165</td>
<td>2 Credits</td>
<td>Theory and Techniques in the Treatment of the Chemically Dependent</td>
<td>Overview of counseling theories including the application to chemical dependency groups. Recordkeeping skills and beginning paraprofessional counseling skills emphasized. Prerequisites: CHD161.</td>
</tr>
<tr>
<td>CHD215</td>
<td>1 Credit</td>
<td>Adult Children of Alcoholics</td>
<td>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.</td>
</tr>
<tr>
<td>CHD220</td>
<td>3 Credits</td>
<td>Family Dynamics and Chemical Dependency</td>
<td>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.</td>
</tr>
<tr>
<td>CHD226</td>
<td>3 Credits</td>
<td>Counseling Multicultural and Diverse Populations</td>
<td>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.</td>
</tr>
<tr>
<td>CHD236</td>
<td>2 Credits</td>
<td>Recovery and Relapse of the Chemically Dependent</td>
<td>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 relapse. Prerequisites: CHD165 with a grade of “C” or better or departmental approval.</td>
</tr>
<tr>
<td>CHD240</td>
<td>2 Credits</td>
<td>Human Sexuality and Chemical Dependency</td>
<td>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.</td>
</tr>
<tr>
<td>CHD245</td>
<td>2 Credits</td>
<td>Dual Diagnosis</td>
<td>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.</td>
</tr>
<tr>
<td>CHD250</td>
<td>3 Credits</td>
<td>Group Interventions with the Chemically Dependent</td>
<td>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.</td>
</tr>
<tr>
<td>CHD265</td>
<td>1 Credit</td>
<td>Co-Dependency</td>
<td>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.</td>
</tr>
<tr>
<td>CHD275</td>
<td>3 Credits</td>
<td>Advanced Theory and Techniques in the Treatment of the Chemically Dependent</td>
<td>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.</td>
</tr>
<tr>
<td>CHD280</td>
<td>6 Credits</td>
<td>Chemical Dependency Practicum</td>
<td>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.</td>
</tr>
</tbody>
</table>
CHD285  
Chemical Dependency Seminar  
1 Credit  
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  
Advanced Foundations of Chemical Dependency  
3 Credits  
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  
Fundamental Chemistry  
3 Credits  
Elements of general chemistry for all students. Serves to prepare the student for CHM 151 or CHM 230. Prerequisites: Grade of “C” or better in CHM 090 or MAT 091, or MAT 092 or MAT 102 or satisfactory score on math placement exam.

CHM130LL  
Fundamental Chemistry Lab  
1 Credit  
Laboratory experience in support of CHM 130. Prerequisites or Corequisites: CHM 130.

CHM138  
Chemistry for Allied Health  
3 Credits  
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 MCCCD. It may not be applicable to other allied health programs or transferable. Prerequisites: Grade of “C” or better in CHM 090; or one year of high school chemistry with a grade of “C” or better; or MAT 092 or MAT 102 or satisfactory score on placement exam.

CHM138LL  
Chemistry for Allied Health Lab  
1 Credit  
Laboratory experience in support of CHM 138, Chemistry for Allied Health. Prerequisites: None. Corequisites: CHM 138.

CHM151  
General Chemistry I  
3 Credits  
A detailed study of the principles of chemistry. Designed for science majors and students in pre-professional curricula. Completion of CHM 151LL required to meet the Natural Science requirement. Prerequisites: (CHM 130 and CHM 130LL), or one year of high school chemistry with a grade of “C” or better, and completion of Intermediate Algebra or equivalent.

CHM151LL  
General Chemistry I Lab  
1 Credit  
Laboratory experience in support of CHM 151. Prerequisites: CHM 130LL or equivalent. Prerequisites or Corequisites: CHM 151.

CHM152  
General Chemistry II  
3 Credits  
A study of the chemical properties of the major groups of elements, equilibrium theory, thermodynamics, electrochemistry, and other selected topics. Completion of CHM 152LL required to meet the Natural Science requirement. Prerequisites: CHM 151 and CHM 151LL.

CHM152LL  
General Chemistry II Lab  
1 Credit  
Laboratory experience in support of CHM 152. Prerequisites: CHM 151LL or equivalent. Prerequisites or Corequisites: CHM 152.

Child/Family Studies  

CFS102  
Emergency Care For Child Care Providers  
1 Credit  
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  
Personal and Family Role Development  
1 Credit  
Basic principles of self-esteem, assertiveness training, decision-making and problem-solving as related to parents’ roles in the family unit. Prerequisites: None.

CFS109AA  
Parent-Child Communication Lab  
1 Credit  
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  
Family Communication Process  
1 Credit  
Problem-solving techniques for improving family communications. Active listening, resolving conflicts and self-enhancing behavior. Prerequisites: None.
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.

COM100  3 Credits
Introduction to Human Communication
The study of 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
The study of 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.

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 Sciences
For a list of course descriptions see Computers below.

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 (M S) 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPC104AD</td>
<td>0.5</td>
<td>Using Excel: Level I</td>
<td>Use of Excel to create, edit, save and print worksheets. Prerequisites: None.</td>
<td></td>
</tr>
<tr>
<td>BPC104BD</td>
<td>0.5</td>
<td>Using Excel: Level II</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>BPC104CD</td>
<td>0.5</td>
<td>Using Excel: Level III</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>BPC106AH</td>
<td>0.5</td>
<td>Microsoft Outlook: Level I</td>
<td>Messaging and word processing functions of a Microsoft Outlook electronic work state. Prerequisites: None.</td>
<td></td>
</tr>
<tr>
<td>BPC106BH</td>
<td>0.5</td>
<td>Microsoft Outlook: Level II</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>BPC107AH</td>
<td>0.5</td>
<td>Using Access: Level I</td>
<td>Use of Access to create, edit and selectively report data. Prerequisites: None.</td>
<td></td>
</tr>
<tr>
<td>BPC107BH</td>
<td>0.5</td>
<td>Using Access: Level II</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>BPC107CH</td>
<td>0.5</td>
<td>Using Access: Level III</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>BPC110</td>
<td>3</td>
<td>Computer Usage and Applications</td>
<td>Exploration of computer operations and uses. Specific applications to business-personal computers. Prerequisites: None.</td>
<td></td>
</tr>
<tr>
<td>BPC111AA</td>
<td>1</td>
<td>Computer Keyboarding I</td>
<td>Mastery of essential microcomputer keyboarding skills. Emphasis on touch typing of alphabetic and numeric keys and symbols. Prerequisites: None.</td>
<td></td>
</tr>
<tr>
<td>BPC111AB</td>
<td>1</td>
<td>Computer Keyboarding II</td>
<td>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: BPC101AA A or permission of instructor.</td>
<td></td>
</tr>
<tr>
<td>BPC114DE</td>
<td>3</td>
<td>Excel Spreadsheet</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>BPC115AA</td>
<td>1</td>
<td>Personal Finance Software: Quicken - Level I</td>
<td>Introduction to the basic features of Quicken, a computerized personal finances software program. Prerequisites: None.</td>
<td></td>
</tr>
<tr>
<td>BPC119</td>
<td>1</td>
<td>Basic Data Entry Activities</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>BPC120DB</td>
<td>1</td>
<td>Microcomputer Graphics: MacPowerpoint</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>BPC121AB</td>
<td>1</td>
<td>MS-DOS Operating System</td>
<td>Use of the MS-DOS operating system: basic concepts, internal and external commands, subdirectories, and editor. Prerequisites: None.</td>
<td></td>
</tr>
<tr>
<td>BPC125</td>
<td>1</td>
<td>Microcomputer Set Up and Maintenance</td>
<td>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: C1S105, or BPC/AB12AB, or BPC/AB12AD, or BPC/AB12AE, or BPC/AB12AF, or BPC110, or permission of instructor.</td>
<td></td>
</tr>
</tbody>
</table>
BPC214DE Advanced Excel Spreadsheet: Level II
3 Credits
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: CIS114D E or permission of instructor.

BPC225 Computer Configuration and Enhancement
1 Credit
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: BPC 125 or permission of instructor.

BPC235DD Advanced Word Processing Software: Word
2 Credits
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.

BPC235DK Advanced Word Processing Software: WordPerfect
2 Credits
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.

BPC238AA Windows Advanced Desktop Publication
3 Credits
A 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: BPC 138A or permission of instructor.

BPC238AB Macintosh Advanced Desktop Publication
3 Credits
A 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: BPC 138A B or permission of instructor.

BPC278 Software Installation - MS Windows
3 Credits
Installing and configuring microcomputer software. Emphasis placed on the installation, configuration, upgrade, and related problem resolution of microcomputer
operating system and applications software. Prerequisites: 
CIS105, CIS121, CIS114 (any module whose course num-
ber suffix begins with a “D”), CIS117 (any module whose
course number suffix begins with a “D”), and BPC 170 with
grade of “C” or better, or permission of instructor.

BPC298AA 1 Credit
Special Projects
Organized and tailored around the interests and needs of
the individual student. Structured to provide an atmos-
phere 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 individ-
ualized learning to be combined to maximize student
development. Prerequisites: None.

BPC298AB 2 Credits
Special Projects
Organized and tailored around the interests and needs of
the individual student. Structured to provide an atmos-
phere 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 individ-
ualized learning to be combined to maximize student
development. Prerequisites: None.

BPC298AC 3 Credits
Special Projects
Organized and tailored around the interests and needs of
the individual student. Structured to provide an atmos-
phere 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 individ-
ualized learning to be combined to maximize student
development. Prerequisites: None.

CIS100 .5 Credit
Internet: A Tool for Learning
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 informa-
tion. Prerequisites: None.

CIS102 1 Credit
Customer Service/Technical Support
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. Pre-
requisites: None.

CIS105 3 Credits
Survey of Computer Information Systems
Overview of computer information systems, fundamental
computer concepts, and programming techniques. Hands-
on experience with selected business software and one
programming language. Prerequisites: None.

CIS109 1 Credit
LAN Operations and Concepts
Overview of basic local area networking concepts. Intro-
duction 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.

CIS114DE 3 Credits
Excel Spreadsheet
Computer spreadsheet skills for solving business problems
using Excel, including calculations, forecasting, projec-
tions, macro programming, database searching, extraction,
linking, statistics, and matrix manipulation. Production of
graphs and reports. Project design using multiple, integrat-
ed spreadsheets. Prerequisites: None.

CIS115 3 Credits
Managing Computer Projects
Fundamentals of project implementation, development and
management. Includes project plan, budget, initiation,
evaluation and review. Also covers project manager respon-
sibilities as well as software development issues and
prototyping techniques. Prerequisites: CIS105 or permis-
sion of instructor.

CIS117DM 3 Credits
Microsoft Access: Database Management
Introduction to the basic elements, exploration of additional
components and common database management problems
related to the Microsoft Access program. Combines the con-
tents of BPC/CIS117AA and BPC/CIS117BA and
BPC/CIS117CA. Prerequisites: None.

CIS118AB 1 Credit
Powerpoint: Level I
Use of Powerpoint software to produce professional-
quality presentation visuals. Prerequisites: None.

CIS118BB 1 Credit
Powerpoint: Level II
Use of Powerpoint software to add movement and sound
to desktop presentations to enhance audience attention.
Prerequisites: BPC/CIS118AB.

CIS120AF 1 Credit
Computer Graphics: Adobe Photoshop
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.

CIS120BA 1 Credit
Computer Graphics: IBM Adobe Illustrator – Level I
Provides students with the capability to use IBM Adobe
Illustrator graphics software on a computer. Basic founda-
tion course in the use of electronic techniques to create,
manipulate, and edit images, graphics design, and color
graphics. Prerequisites: None.

CIS110 1 Credit
LAN Operations and Concepts
Overview of basic local area networking concepts. Intro-
duction 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS120BB</td>
<td>Computer Graphics: IBM Adobe Illustrator - Level II</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>CIS120BC</td>
<td>Computer Graphics: IBM Adobe Illustrator - Level III</td>
<td>1</td>
<td>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, and utilize tools to optimize graphics. Prerequisites: BPC/CIS120BB.</td>
</tr>
<tr>
<td>CIS120BD</td>
<td>Computer Graphics: IBM Adobe Illustrator</td>
<td>3</td>
<td>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, and utilize tools to optimize graphics and create a PDF file. Prerequisites: None.</td>
</tr>
<tr>
<td>CIS120DC</td>
<td>Computer Graphics: Macromedia Flash</td>
<td>3</td>
<td>Provides students with the capability 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.</td>
</tr>
<tr>
<td>CIS120DF</td>
<td>Computer Graphics: IBM Adobe Photoshop</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>CIS121AB</td>
<td>MS-DOS Operating System</td>
<td>1</td>
<td>The use of the MS-DOS operating system: basic concepts, internal and external commands, subdirectories, and editor. Prerequisites: None.</td>
</tr>
<tr>
<td>CIS121AE</td>
<td>Windows Operating System: Level I</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>CIS121AG</td>
<td>Windows 98 - Level I</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>CIS122AC</td>
<td>UNIX Operating System: Multi-User</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>CIS122AE</td>
<td>Windows Operating System: Level II</td>
<td>1</td>
<td>Advanced 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.</td>
</tr>
<tr>
<td>CIS122AG</td>
<td>Windows 98 - Level II</td>
<td>1</td>
<td>Microsoft (MS) Windows 98 network software package. Covers enhanced features, user interface enhancements, maintenance and troubleshooting tools. Configuration emphasized. Prerequisites: BPC121AG or CIS121AG.</td>
</tr>
<tr>
<td>CIS124AA</td>
<td>Project Management Software: Level I</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>CIS124BA</td>
<td>Project Management Software: Level II</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>CIS126DA</td>
<td>UNIX Operating System</td>
<td>3</td>
<td>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.</td>
</tr>
</tbody>
</table>
CIS131AB  1 Credit
Internet for Teachers: Level I
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.

CIS131BB  1 Credit
Internet for Teachers: Level II
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.

CIS131CB  1 Credit
Internet for Teachers: Level III
Internet use in the classroom. Covers teaching/learning resources, curriculum materials and teaching techniques. Collaborative projects and simple web page design included. Prerequisites: CIS131BB.

CIS131DB  3 Credits
Internet for Teachers
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.

CIS133AA  1 Credit
The Internet: Level I
Overview of the Internet and its resources. Hands-on experience with various Internet communication tools. Prerequisites: None.

CIS133BA  1 Credit
The Internet: Level II
Exploration of additional Internet resources. Hands-on experience with a variety of resource discovery and information retrieval tools. Prerequisites: CIS133AA.

CIS133CA  1 Credit
The Internet: Level III
Independent exploration of the Internet. Prerequisites: CIS133BA or permission of instructor.

CIS133DA  3 Credits
The Internet/World Wide Web
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.

CIS140  2 Credits
Survey of Multimedia Technology
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 basic understanding of the process used to define and develop multimedia applications. Prerequisites: CIS1105 or permission of instructor.

CIS150  3 Credits
Programming Fundamentals
Structured program design and logic tools. Use of computer problems to demonstrate and teach concepts using appropriate programming language. Prerequisites: CIS1105, or permission of instructor.

CIS158  3 Credits
COBOL Programming I
Programming in structured COBOL for preparation of business reports. Hands-on computer experience. Prerequisites: CIS1105, or permission of instructor.

CIS159  3 Credits
Visual Basic Programming I
Use of Visual Basic programming language to solve problems using suitable examples from business or other disciplines. Prerequisites: CIS1105, or permission of instructor.

CIS162  3 Credits
C Programming I
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: CIS1105, or permission of instructor.

CIS162AB  3 Credits
C++: Level I
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: CIS1105, or permission of instructor.

CIS163AA  3 Credits
Java Programming: Level I
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: CIS1105.

CIS166  3 Credits
Web Scripting/Programming
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.

CIS166AA  3 Credits
Introduction to JavaScripting
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: CIS1233DA or permission of instructor.
CIS167AB 3 Credits
Windows Programming Using Visual C++ and MFC
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.

CIS175AA 3 Credits
Microsoft Windows 95 System Administration
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.

CIS175AF 3 Credits
Microsoft Networking Essentials
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.

CIS175AH 3 Credits
Mastering Enterprise Development
Introduction to enterprise development. Managing business and data services using Microsoft Visual Basic, Component Object Model (COM), Dynamic-Link Libraries (DLL's), Micosoft Transaction Server (MTS), and ActiveX Data Objects (ADO), included. Prerequisites: CIS275AG or CIS268, or permission of instructor.

CIS175AJ 2 Credits
Microsoft Internet Explorer 4.0
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.

CIS175BA 2 Credits
Gathering and Analyzing Business Requirements
Introduction to design of a business solution. Covers information gathering, analysis and presentation techniques and processes. Also includes development of usage scenarios and models for system behavior. Prerequisites: Departmental Approval.

CIS175BB 3 Credits
Designing Business Solutions
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.

CIS175BC 2 Credits
Designing Data Services/Data Models
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.

CIS175CA 3 Credits
Upgrading Support Skills from Windows NT 4.0 to Windows 2000

CIS175CB 2 Credits
Designing a Microsoft Windows 2000 Directory Services Infrastructure
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.

CIS175CC 2 Credits
Designing a Microsoft Windows 2000 Networking Services Infrastructure
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.

CIS175CD 1 Credit
Designing a Microsoft Windows 2000 Migration Strategy
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.

CIS175CE 3 Credits
Supporting a Microsoft Windows 2000 Network Infrastructure
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.

CIS175CF 3 Credits
Implementing and Administering Microsoft Windows 2000 Directory Services
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.
CIS175CG 3 Credits
Designing a Secure Microsoft Windows 2000 Network
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.

CIS175DA 2 Credits
Microsoft Windows 2000 Network and Operating System Essentials
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 W indows interface and general knowledge of hardware and networking concepts is recommended.

CIS175DB 3 Credits
Implementing Microsoft Windows 2000 Professional
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.

CIS175EA 1 Credit
Introduction to Structured Query Language
Introduction to Structured Query Language. Focuses on the query operation, including data collection, grouping and multi-table queries. Prerequisites: None.

CIS175EB 1 Credit
Introduction to Programming
Introduction to programming concepts with an emphasis on style and logical thinking. Covers complete program writing including looping, control breaks and arrays. Prerequisites: None.

CIS175IA 1 Credit
I-Net+ Certification
Exploration of technologies involved in Internet development. Includes e-Commerce, web site developing and networking. Prerequisites: None.

CIS175IB 2 Credits
Building Web Documents with HTML
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.

CIS175IC 3 Credits
Web Information and Media Design
Concepts and skills necessary for effective web page design. Covers the design process including information and navigational design. Also includes designing for interactivity. Prerequisites: CIS175IB.

CIS176AB 2 Credits
GroupWise 5.0 Administration
Procedures to install GroupW ise Administrator and the GroupW ise client. Single domain-multiple post office system emphasized. Day-to-day administration tasks and GroupW ise libraries also included. Prerequisites: CIS191 or CIS191DE or permission of instructor.

CIS176AC 2 Credits
Network Management Using ManageWise
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.

CIS176NA 3 Credits
Novell Network Plus
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.

CIS190 3 Credits
Introduction to Local Area Networks
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.

CIS191 3 Credits
Novell NetWare System Administration
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.

CIS191DE 3 Credits
Novell NetWare 5 System Administration
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.

CIS191DL 3 Credits
Microsoft Windows NT System Administration
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.
CIS191EA 3 Credits
NetWare Service and Support
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
Microsoft Windows NT Workstation
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
Microsoft Windows NT Server
Knowledge and skills to plan, install, configure, customize, and integrate networks with Windows NT Server operating system. Prerequisites or Corequisites: CIS192.

CIS209AM 2 Credits
Networking Technology II

CIS214DE 3 Credits
Advanced Excel Spreadsheet: Level II
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: CIS110AM or permission of instructor.

CIS217AM 3 Credits
Advanced Microsoft Access: Database Management
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
Business Systems Analysis and Design
Investigation, analysis, design, implementation and evaluation of business computer systems. Prerequisites: Any programming language or permission of instructor.

CIS226AB 3 Credits
Internet/Intranet Server Administration-Windows
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. Prerequisites: CIS133DA or permission of instructor.

CIS226AC 3 Credits
Internet/Intranet Server Administration-Novell NetWare
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
Internet/Intranet Server Administration-IntranetWare
Set up and management of internet/intranet services, including World Wide Web (WWW) and Simple Mail Transfer Protocol (SMTP) in an IntranetWare server environment. Includes coverage of security issues. Prerequisites: CIS133DA or permission of instructor.

CIS233AA 1 Credit
The Internet Web Publishing I
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
Internet Web Publishing: FrontPage Level I
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.

CIS233BB 1 Credit
Internet Web Publishing: FrontPage Level II
A advanced hypertext markup language (HTML), including tables, forms, image maps, gateway scripts, and multimedia. Hands-on experience designing advanced web presentations. Prerequisites: CIS233BA or permission of instructor.

CIS233BA 1 Credit
The Internet Web Publishing II
A advanced hypertext markup language (HTML), including tables, forms, image maps, gateway scripts, and multimedia. Hands-on experience designing advanced web presentations. Prerequisites: CIS233BA or permission of instructor.

CIS233BB 1 Credit
Internet Web Publishing: FrontPage Level II
A 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: CIS233BA or permission of instructor.
CIS233DA 3 Credits
The Internet Web Publishing
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.

CIS235 3 Credits
e-Commerce
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.

CIS240 3 Credits
Local Area Network Planning and Design
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.

CIS250 3 Credits
Management Information Systems
Business organization, control, and communication; database concepts; systems design; and computer systems. Prerequisites: CIS225.

CIS259 3 Credits
Visual Basic Programming II
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.

CIS262AA 3 Credits
C: Level II
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.

CIS262AB 3 Credits
C++: Level II
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.

CIS263AA 3 Credits
Java Programming: Level II
Intermediate Java programming. Includes features needed to construct object-oriented programming, multithreading, multimedia, files, streams and data structure. Prerequisites: CIS163AA or permission of instructor.

CIS275AA 2 Credits
Implementing Microsoft Internet Explorer 4.0
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.

CIS275AC 3 Credits
Microsoft Transfer Control Protocol/Internet Protocol
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.

CIS275AF 3 Credits
Mastering Distributed Application Design and Development
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.

CIS275AG 3 Credits
Mastering Visual Basic 6 Development
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.

CIS275AI 3 Credits
Microsoft Visual Basic 6 Fundamentals
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.

CIS275BD 3 Credits
Microsoft Exchange Server 5.5 Series-Design and Implementation
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 (IM S), News Service and M icrosoft Outlook Web Access included. Prerequisites: CIS275BA or permission of instructor.
CIS275BE  
Microsoft Exchange Server 5.5 Series-Concepts and Administration  
The concepts and administration of Microsoft (M S) Exchange Server 5.5. Covers server architecture, administration configuration and maintenance. Forms administration also covered. Prerequisites: CIS275BA or permission of instructor.

CIS275CB  
Secure Web Access Using Microsoft Proxy Server 2.0  
Overview of installation, configuration, troubleshooting Microsoft (M S) Proxy Server. Also includes planning, monitoring, security and filtering. Prerequisites: CIS275AC and CIS275CC, or permission of instructor.

CIS275CC  
Microsoft Internet Information Server  
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.

CIS275CE  
Supporting Microsoft Systems Network Architecture Server 4.0  
Fundamentals of a Microsoft (M S) 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.

CIS275CI  
System Administration for Microsoft Structured Query Language Server 7.0  
Microsoft (M S) 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.

CIS275CJ  
Implementing a Database on Microsoft Structured Query Language Server 7.0  
Implementation of a database on Microsoft (M S) 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.

CIS275CL  
Implementing a Data Warehouse Using Microsoft Structured Query Language Server 7.0  
Planning, implementing, and maintaining a data warehouse using Microsoft Structured Query Language (SQL) Server client/server database management system version 7.0. Online Analytical Processing (OLAP) server capabilities for multi-dimensional analysis also included. Prerequisites: Permission of instructor.

CIS275CM  
Administering Microsoft Systems Management Server 2.0  
Administration of Microsoft Systems Management Server (SMS) 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.

CIS275CN  
Deploying and Supporting Microsoft Server 2.0  
Basic knowledge and skills required to deploy and support Microsoft Systems Management Server (SMS). Design a site, organize a site hierarchy and plan for resource needs emphasized. Restoring SMS site also covered. Prerequisites: Permission of instructor.

CIS275CO  
Implementing Microsoft Site Server 3.0  
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.

CIS275DA  
Introduction to Application Development  
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.

CIS275DB  
Application Development Fundamentals and Concepts  
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.

CIS275DC  
Creating a Visual Basic Application  
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  
GroupWise 5.0 Advanced Administration  
Procedures to design, configure, and troubleshoot a GroupWise system with multiple domains. Creating and linking domains also included. Prerequisites: CIS176AB or permission of instructor.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS276AC</td>
<td>2</td>
<td>GroupWise Net Access and Connectivity</td>
<td>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.</td>
</tr>
<tr>
<td>CIS276AD</td>
<td>2</td>
<td>Novell Directory Services Design and Implementation</td>
<td>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.</td>
</tr>
<tr>
<td>CIS276AE</td>
<td>2</td>
<td>NetWare 4.11 to NetWare 5 Update</td>
<td>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.</td>
</tr>
<tr>
<td>CIS276AF</td>
<td>2</td>
<td>Securing Intranets with BorderManager</td>
<td>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.</td>
</tr>
<tr>
<td>CIS276AG</td>
<td>3</td>
<td>NetWare 5 Advanced Administration</td>
<td>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.</td>
</tr>
<tr>
<td>CIS280</td>
<td>3</td>
<td>Current Topics in Computing</td>
<td>Critical inquiry of current topics in computing. Application of industry trends to solve problems and/or investigate issues. Prerequisites: None.</td>
</tr>
<tr>
<td>CIS290AC</td>
<td>3</td>
<td>Computer Information Systems Internship</td>
<td>Work experience in business or industry. Prerequisites: Permission of instructor.</td>
</tr>
<tr>
<td>CSC100</td>
<td>3</td>
<td>Introduction to Computer Science for Non-Computer Majors</td>
<td>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: MAT 120 or MAT 121 or MAT 122.</td>
</tr>
<tr>
<td>CSC150</td>
<td>3</td>
<td>Programming in C/C++</td>
<td>Introduction to C and C++ programming. Flow control, functions, pointers, data structures, file handling, and introduction to object-oriented programming. Prerequisites: Permission of instructor.</td>
</tr>
<tr>
<td>CSC185</td>
<td>3</td>
<td>World Wide Web and Introductory Internet Programming</td>
<td>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.</td>
</tr>
</tbody>
</table>

### Counseling and Personal Development

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CPD102AA</td>
<td>2</td>
<td>Assertiveness Training</td>
<td>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.</td>
</tr>
<tr>
<td>CPD102AB</td>
<td>2</td>
<td>Career Exploration</td>
<td>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.</td>
</tr>
<tr>
<td>CPD102AD</td>
<td>2</td>
<td>Eliminating Self-Defeating Behavior</td>
<td>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.</td>
</tr>
<tr>
<td>CPD102AH</td>
<td>2</td>
<td>Stress Management</td>
<td>Reviews various physiological and psychological approaches to stress. Presents options and appropriate exercises for coping with anxiety. Prerequisites: None.</td>
</tr>
<tr>
<td>Course Code</td>
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<tr>
<td>CPD102AT</td>
<td>2</td>
<td>Building Self-Esteem</td>
<td>Practice in specific methods for building and keeping self-esteem. Personal assessment of attitudes, values, support systems, and goals. Prerequisites: None.</td>
</tr>
<tr>
<td>CPD103BA</td>
<td>2</td>
<td>Women In Transition</td>
<td>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.</td>
</tr>
<tr>
<td>CPD122</td>
<td>2</td>
<td>Retirement Planning</td>
<td>Focuses on cultural and social aspects of retirement planning with emphasis on financial planning, legal concerns, attitude and role adjustments. Prerequisites: None.</td>
</tr>
<tr>
<td>CPD123</td>
<td>1</td>
<td>Employee Development: Personal Development</td>
<td>Examination of personal values and positive self-esteem. Also covers personal development skills including assertive behavior and decision making. Prerequisites: None.</td>
</tr>
<tr>
<td>CPD124</td>
<td>1</td>
<td>Employee Development: Lifestyle Management</td>
<td>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.</td>
</tr>
<tr>
<td>CPD125</td>
<td>1</td>
<td>Employee Development: Problem Solving/Decision Making</td>
<td>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.</td>
</tr>
<tr>
<td>CPD127</td>
<td>1</td>
<td>Workplace Resolution and Negotiation Strategies</td>
<td>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.</td>
</tr>
<tr>
<td>COV110</td>
<td>2</td>
<td>The Seven Habits of Highly Effective People</td>
<td>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.</td>
</tr>
<tr>
<td>CSI110</td>
<td>2</td>
<td>The Credit Card Industry</td>
<td>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.</td>
</tr>
<tr>
<td>CSI111</td>
<td>2</td>
<td>History and Function of the Credit Card Industry</td>
<td>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.</td>
</tr>
<tr>
<td>CSI112</td>
<td>2</td>
<td>Introduction to the Bankcard Industry</td>
<td>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.</td>
</tr>
<tr>
<td>CSI114</td>
<td>3</td>
<td>Bankcard Industry Regulations/Procedures</td>
<td>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.</td>
</tr>
<tr>
<td>CSI116</td>
<td>3</td>
<td>Bankcard Industry Law</td>
<td>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.</td>
</tr>
<tr>
<td>CSI120</td>
<td>1</td>
<td>Cardmember Customer Service</td>
<td>Overview of customer care service for the credit card industry. Building a positive relationship with customers and customer loyalty emphasized. Prerequisites: None.</td>
</tr>
<tr>
<td>CSI121</td>
<td>2</td>
<td>Cardmember Services and Procedures</td>
<td>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.</td>
</tr>
<tr>
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<tr>
<td>CSI122</td>
<td>2</td>
<td>Introduction to Cardmember Services</td>
<td>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.</td>
</tr>
<tr>
<td>CSI123</td>
<td>2</td>
<td>Credit Card Customer Service</td>
<td>Procedures for handling credit card transactions using the Hypercom System. Covers response calls, Quit Duplicate situations and procedures for the incrementing/bumping process. Also includes effective customer service techniques. Prerequisites: None.</td>
</tr>
<tr>
<td>CSI124</td>
<td>3</td>
<td>Intermediate Cardmember Services</td>
<td>Credit cardmember services. Covers balance transfers, call handling procedures, statements, authorizations and payment disputes. Computer usage emphasized. Prerequisites: CSI122.</td>
</tr>
<tr>
<td>CSI126</td>
<td>2</td>
<td>Advanced Cardmember Services</td>
<td>Advanced credit cardmember services. Includes finance charges, lost/stolen reports, charge disputes and handling special requests. Computer system use emphasized. Prerequisites: CSI124.</td>
</tr>
<tr>
<td>CSI130</td>
<td>3</td>
<td>Cardmember Assistance</td>
<td>Overview of credit card member assistance. Policies and procedures emphasized. Communication tools and cardmember assistance telephone calls covered. Prerequisites: None.</td>
</tr>
<tr>
<td>CSI131</td>
<td>2</td>
<td>Credit Card Technology</td>
<td>Overview of computers in the credit card industry. Various computer screens and computer telephony integration system emphasized. Prerequisites: None.</td>
</tr>
<tr>
<td>CSI132</td>
<td>2</td>
<td>Cardmember Assistance Calls</td>
<td>Credit cardmember assistance telephone calling. Placing and answering cardmember phone calls emphasized. Use of a cardmember assistance account system also covered. Prerequisites: CSI130.</td>
</tr>
<tr>
<td>CSI133</td>
<td>2</td>
<td>Bankcard Industry Account Maintenance</td>
<td>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.</td>
</tr>
<tr>
<td>CSI134</td>
<td>3</td>
<td>Bankcard Industry Sales Communications</td>
<td>Bankcard industry phone sales communications. Covers the Welcome Call program, phone etiquette, and customer support procedures. Also includes the Fair Debt Collection Practices Act (FDCPA) as well as techniques for effective positioning and selling. Prerequisites: None.</td>
</tr>
<tr>
<td>CSI136</td>
<td>3</td>
<td>Credit Card Billing &amp; Payments</td>
<td>Introduction to credit card billing and payment processes. Finance charges emphasized. Prerequisites: None.</td>
</tr>
<tr>
<td>CSI138</td>
<td>3</td>
<td>Processing Credit Card Accounts</td>
<td>Processing credit card accounts procedures. Includes credit lines, disputes and fraud. Bank pricing strategies also covered. Prerequisites: None.</td>
</tr>
<tr>
<td>CSI140</td>
<td>2</td>
<td>Credit Card Telemarketing</td>
<td>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.</td>
</tr>
<tr>
<td>CSI142</td>
<td>2</td>
<td>Responsibilities of a Telemarketer</td>
<td>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.</td>
</tr>
<tr>
<td>CSI144</td>
<td>3</td>
<td>Credit Card Telemarketing Strategies</td>
<td>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.</td>
</tr>
<tr>
<td>CSI150</td>
<td>2</td>
<td>Credit Card Collection Guidelines</td>
<td>Overview of credit card collection laws. Includes collection policies and procedures. Credit card company background, products and collection department functions also covered. Prerequisites: None.</td>
</tr>
<tr>
<td>CSI152</td>
<td>2</td>
<td>Credit Card Debt Collection</td>
<td>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.</td>
</tr>
<tr>
<td>CSI154</td>
<td>3</td>
<td>Cardmember Collection Services</td>
<td>Application of credit card collections department procedures. Covers customer service, communication, education, and negotiation strategies as well as account identification and account action processes. Also includes legal issues, collection representative responsibility, general industry procedure and performance measure justification information. Prerequisites: None.</td>
</tr>
</tbody>
</table>
# Course Descriptions

## Credit Services Industry

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>CSI155</td>
<td>2</td>
<td>Bankcard Industry Loss Prevention</td>
<td>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.</td>
</tr>
<tr>
<td>CSI156</td>
<td>2</td>
<td>Credit Card Loss Prevention</td>
<td>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.</td>
</tr>
<tr>
<td>CSI158</td>
<td>3</td>
<td>Credit Card Fraud Overview</td>
<td>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.</td>
</tr>
<tr>
<td>CSI160</td>
<td>3</td>
<td>Credit Card Fraud Procedures I</td>
<td>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.</td>
</tr>
<tr>
<td>CSI162</td>
<td>2</td>
<td>Credit Card Fraud Procedures II</td>
<td>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.</td>
</tr>
<tr>
<td>CSI164</td>
<td>2</td>
<td>Bankcard Industry Fraud</td>
<td>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.</td>
</tr>
<tr>
<td>CSI166</td>
<td>3</td>
<td>Commercial Bankcard Accounts</td>
<td>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.</td>
</tr>
<tr>
<td>CSI180</td>
<td>2</td>
<td>Overview of Merchant Services</td>
<td>Overview of credit card merchant services. Covers terms and procedures as well as authorizations and credit analysis. Use of computer systems emphasized. Prerequisites: None.</td>
</tr>
<tr>
<td>CSI181</td>
<td>3</td>
<td>Commercial Bankcard Operations</td>
<td>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.</td>
</tr>
<tr>
<td>CSI182</td>
<td>2</td>
<td>Commercial Bankcard Practices</td>
<td>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.</td>
</tr>
<tr>
<td>CSI183</td>
<td>3</td>
<td>Terminal Communication Procedures</td>
<td>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.</td>
</tr>
<tr>
<td>CSI184</td>
<td>2</td>
<td>Credit Card Terminals</td>
<td>Overview of credit card terminals. Covers types, components, features and access codes as well as printer types and usage. Prerequisites: None.</td>
</tr>
</tbody>
</table>
CSI187  2 Credits  
Credit Card Terminal Policy and Procedures  
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.

CSI188  1 Credit  
Credit Card Terminal Tracking  
Overview of an online management compensation and tracking system for credit card terminals. Covers phone systems and command keys. Prerequisites: None.

CSI189  2 Credits  
Credit Card Terminal Troubleshooting  
Basic credit card terminal troubleshooting techniques. Covers hardware and communication problems. Troubleshooting rules, task based troubleshooting and common error messages also covered. Prerequisites: None.

CSI190  2 Credits  
Merchant Reporting  
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.

CSI191  2 Credits  
Chargeback Service Methods  
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.

CSI192  2 Credits  
Merchant Settlement  
Overview of credit card merchant settlement. Covers transactions, sales submissions, third party processors, and netting processes. Prerequisites: None.

CSI193  3 Credits  
Chargeback Service Processing  
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.

CSI194  3 Credits  
Merchant Research and Resolution  
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.

CSI195  2 Credits  
Bankcard Chargeback Services  
Procedures employed in performing bankcard industry chargeback customer service. Covers the creation of industry compliant individual performance goals, team membership logistics, and locating acquirer information. Also includes retrieval request and workflow oriented account organization benefits. Prerequisites: None.

CSI196  2 Credits  
Credit Card Processing  
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.

CSI197  2 Credits  
Bankcard Industry Chargeback Systems  
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.

CSI198  2 Credits  
Investment Banking  
Overview of the investment banking industry. Includes communication process and investor services as well as various types of securities. Prerequisites: None.

CSI199  2 Credits  
Investing Systems  
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.

CSI200  2 Credits  
Investment Funds I  
Exchange-Trade Fund (ETF) research and procedures. Covers dividends and capital gains as well as premiums, discounts and reinvestment procedures. Prerequisites: None.

CSI201  2 Credits  
Investment Funds II  
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.

CSI202  3 Credits  
Investment Funds III  
Overview of the retail banking industry. Includes communication skills and investor services, as well as an overview of securities. Prerequisites: None.

CSI203  2 Credits  
Retail Banking Services  
Banking services concerning Unit Investment Trusts (UIT). Includes portfolio management, sponsors and trustees as well as distribution, redemptions and terminations. Prerequisites: None.
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.

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 computer usage in the health care insurance industry. Covers various computer screens, online and manual data entry. Customer service worksheets included. Prerequisites: BPC 110AA.

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 usage 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.

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.

CSR164 2 Credits
Prescription Customer Service Skills
Mail Order Prescription Skills. Includes basic computer overview and computer service skills. Covers third party coverage, terms, patient registration and payment procedures covered. Prerequisites: None.

CSR165 3 Credits
Mail-Order Prescriptions
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.

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
Mail Order Prescription Skills. Covers basic computer overview and computer order entry. Covers third party coverage, terms, patient registration, telephone techniques, and account receivable procedures covered. Use of computer emphasized. 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.

CSR171 3 Credits
Telecommunications Billing/Rates
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.
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 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDA240</td>
<td>3</td>
<td><strong>Dental Radiographic Imaging</strong></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>CDA280</td>
<td>1</td>
<td><strong>Clinical Dental Assistant Practicum</strong></td>
<td>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.</td>
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</tr>
<tr>
<td>CDA290</td>
<td>4</td>
<td><strong>Internship for Clinical Dental Assistants</strong></td>
<td>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: CDA 240 or permission of instructor.</td>
<td></td>
</tr>
<tr>
<td>DHE110</td>
<td>3</td>
<td><strong>Pharmacology</strong></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>DHE112</td>
<td>3</td>
<td><strong>Oral Pathology</strong></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>DHE114</td>
<td>2</td>
<td><strong>Emergency Medicine</strong></td>
<td>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 Program or Dental Assisting Programs.</td>
<td></td>
</tr>
<tr>
<td>DHE119</td>
<td>3</td>
<td><strong>Head and Neck Anatomy</strong></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>DHE120</td>
<td>6</td>
<td><strong>Pre-Clinical Dental Hygiene</strong></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>DHE122</td>
<td>2</td>
<td><strong>Dental Anatomy, Embryology and Histology</strong></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>DHE124</td>
<td>2</td>
<td><strong>Dental Radiography</strong></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>DHE125</td>
<td>1</td>
<td><strong>Dental Radiography Lab</strong></td>
<td>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/DHE 124 and admission to the Dental Hygiene Program or permission of instructor.</td>
<td></td>
</tr>
<tr>
<td>DHE127</td>
<td>3</td>
<td><strong>Prevention of Dental Disease</strong></td>
<td>Introduction of preventive concepts to help clients achieve control of oral diseases and injury. Topics include etiologic...</td>
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</tbody>
</table>
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.

DHE132 3 Credits
**Dental Hygiene Theory I**
Continuous 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: DHE203 and admission to the Dental Hygiene Program or permission of instructor. Corequisites: DHE133.

DHE133 3 Credits
**Dental Hygiene Clinic I**
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.

DHE203 2 Credits
**Dental Materials**
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.

DHE204 1 Credit
**Dental Materials Lab**
Manipulate permanent and temporary restorative materials, impression materials, 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.

DHE212 2 Credits
**Dental Hygiene Theory II**
Continuous 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.

DHE213 5 Credits
**Dental Hygiene Clinic II**
Continuous 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.

DHE219 2 Credits
**Practice Management**
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, and legal issues. Prerequisites: Admission to the Dental Hygiene Program or permission of instructor.

DHE225 3 Credits
**Periodontics**
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.

DHE227 2 Credits
**Dental Anesthesia**
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.

DHE229 3 Credits
**Community Oral Health**
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.

DHE232 2 Credits
**Dental Hygiene Theory III**
Continuous 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.

DHE233 5 Credits
**Dental Hygiene Clinic III**
Continuous 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.
**Drafting Technology**

**DFT126 3 Credits**

**Building Trades Blueprint Reading**
A detailed analysis is provided of technical drawings common to the construction industry and building trades. Prerequisites: None.

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**Economics**

**ECN111 3 Credits**

**Macroeconomic Principles**
A descriptive analysis of the structure and functioning of the American economy. Emphasis is placed on basic economic institutions and factors that determine national income and employment levels. Consideration is 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 are examined. Prerequisites: None.

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**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.
### Course Descriptions

#### Education

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
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<tbody>
<tr>
<td>EDU224</td>
<td>3</td>
<td>Teaching in the Middle School</td>
<td>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.</td>
</tr>
<tr>
<td>EDU225</td>
<td>3</td>
<td>Foundations of ESL and Bilingual Education</td>
<td>Rationale for and current educational and legal issues in bilingual education. Comparison and evaluation of various types of bilingual education programs. Prerequisites: N one.</td>
</tr>
<tr>
<td>EDU230</td>
<td>3</td>
<td>Cultural Diversity in Education</td>
<td>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: N one.</td>
</tr>
<tr>
<td>EDU240</td>
<td>3</td>
<td>Methods for Teaching the ESL Student</td>
<td>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.</td>
</tr>
<tr>
<td>EDU243</td>
<td>3</td>
<td>Reading and Writing in an ESL/Bilingual Setting</td>
<td>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.</td>
</tr>
<tr>
<td>EDU246</td>
<td>3</td>
<td>Assessment of Linguistically Diverse Learners</td>
<td>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.</td>
</tr>
<tr>
<td>EDU247</td>
<td>3</td>
<td>Practicum for ESL/Bilingual Teachers</td>
<td>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 ENG 213), and (EDU240 or EDU241).</td>
</tr>
</tbody>
</table>

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<thead>
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<tr>
<td>EDU250</td>
<td>3</td>
<td>Overview of the Community Colleges</td>
<td>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: N one.</td>
</tr>
<tr>
<td>EDU260</td>
<td>2</td>
<td>Technology in Education Overview</td>
<td>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: N one.</td>
</tr>
<tr>
<td>EDU261AA</td>
<td>1</td>
<td>Technology as a Resource for Language Arts Educators: Grades K-3</td>
<td>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.</td>
</tr>
<tr>
<td>EDU261AB</td>
<td>1</td>
<td>Technology as a Resource for Language Arts Educators: Grades 4-6</td>
<td>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.</td>
</tr>
<tr>
<td>EDU262AA</td>
<td>1</td>
<td>Technology as a Resource for Reading Educators: Grades K-3</td>
<td>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.</td>
</tr>
<tr>
<td>EDU262AB</td>
<td>1</td>
<td>Technology as a Resource for Reading Educators: Grades 4-6</td>
<td>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.</td>
</tr>
<tr>
<td>EDU263AA</td>
<td>1</td>
<td>Technology as a Resource for Social Studies Educators: Grades K-3</td>
<td>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.</td>
</tr>
</tbody>
</table>
Education

EDU263AB 1 Credit
Technology as a Resource for
Social Studies Educators: Grades 4-6
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: EDU 260.

EDU263AC 1 Credit
Technology as a Resource for
Social Studies Educators: Middle/High School
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: EDU 260.

EDU264AA 1 Credit
Technology as a Resource for
Mathematics Educators: Grades K-3
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: EDU 260.

EDU264AB 1 Credit
Technology as a Resource for
Mathematics Educators: Grades 4-6
Overview of integration of technology in the teaching of
mathematics in grades four through six. Local, state, and
national standards for mathematics covered. Creation, for-
mattting and modification of spreadsheets included.
Identification of technological resources and their use emphasized. Prerequisites: EDU 260.

EDU264HA 1 Credit
Technology as a Resource for
Mathematics Educators: Basic/Pre-Algebra
Introduction to integrating technology into the mathe-
matics classroom. Local, state, and national standards for
mathematics covered. Overview of various graphing calcu-
lator 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
Algebra I and II. Prerequisites: EDU 260.

EDU264HC 1 Credit
Technology as a Resource for
Mathematics Educators: Trigonometry and Calculus
Introduction to integrating technology into the mathemat-
ics classroom. Local, state, and national standards for
mathematics covered. Overview of various graphing calcu-
lator 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: EDU 260.

EDU265AA 1 Credit
Technology as a Resource for
Science Educators: Grades K-3
An examination of Internet and software resources rele-
vant 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: EDU 260.

EDU265AB 1 Credit
Technology as a Resource for
Science Educators: Grades 4-6
An examination of Internet and software resources rele-
vant 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: EDU 260.

EDU265AC 1 Credit
Technology as a Resource for
Science Educators: Grades 7-12
An examination of Internet and software resources rele-
vant 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: EDU 260.

EDU266HA 1 Credit
Technology as a Resource for
English Educators: High School
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: EDU 260.

EDU269 3 Credits
Classroom Planning With Technology
Examination of the necessary skills elementary school stu-
dents need to meet national technology standards. Lesson
plan development emphasized. Prerequisites: EDU 260.

EDU270 3 Credits
Learning and the Brain
Teaching and learning issues within a cognitive processes
context. Covers emotion, memory, and recall as well as
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</tr>
</thead>
<tbody>
<tr>
<td>EDU270AA</td>
<td>3</td>
<td>Elementary Reading and Decoding</td>
<td>None</td>
<td>Focus on the theories, methods and models of the teaching and learning processes of reading in the elementary grades.</td>
</tr>
<tr>
<td>EDU270AB</td>
<td>3</td>
<td>Secondary Reading and Decoding</td>
<td>None</td>
<td>Focus on the theories, methods and models of teaching literacy and decoding in the content areas of secondary grades.</td>
</tr>
<tr>
<td>EDU272</td>
<td>3</td>
<td>Educational Psychology</td>
<td>None</td>
<td>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.</td>
</tr>
<tr>
<td>EDU274</td>
<td>3</td>
<td>Understanding Adolescent Behavior in the Classroom</td>
<td>None</td>
<td>Focus 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.</td>
</tr>
<tr>
<td>EDU275</td>
<td>3</td>
<td>Diagnosis and Remediation of Reading for K-12</td>
<td>None</td>
<td>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: EDU 270AA or EDU 270AB.</td>
</tr>
<tr>
<td>EDU276</td>
<td>3</td>
<td>Classroom Management</td>
<td>None</td>
<td>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.</td>
</tr>
<tr>
<td>EDU279</td>
<td>3</td>
<td>Reading Practicum K-12</td>
<td>None</td>
<td>Focus on the practical application of current philosophical theories, methods, and models of assessment and instruction for remediation of reading. Prerequisites: EDU 270AA or EDU 270AB.</td>
</tr>
<tr>
<td>EDU285</td>
<td>2</td>
<td>Education Seminar</td>
<td>None</td>
<td>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.</td>
</tr>
<tr>
<td>EDU286</td>
<td>3</td>
<td>Middle Grade Practicum</td>
<td>None</td>
<td>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: EDU 224 and EDU 274.</td>
</tr>
<tr>
<td>EDU289</td>
<td>3</td>
<td>Secondary Methods and Curriculum Development</td>
<td>None</td>
<td>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: EDU 272.</td>
</tr>
<tr>
<td>EDU290</td>
<td>3</td>
<td>Science Methods and Curriculum Development</td>
<td>None</td>
<td>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: EDU 270 and EDU 272.</td>
</tr>
<tr>
<td>EDU291</td>
<td>3</td>
<td>Children's Literature</td>
<td>None</td>
<td>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.</td>
</tr>
<tr>
<td>EDU295</td>
<td>3</td>
<td>Social Studies Methods and Curriculum Development</td>
<td>None</td>
<td>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: EDU 270 and EDU 272.</td>
</tr>
<tr>
<td>EDU299</td>
<td>8</td>
<td>Student Teaching Lab</td>
<td>None</td>
<td>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.</td>
</tr>
</tbody>
</table>
Electronics Technology  •  Emergency Medical Technology  •  English

■ 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 Cardiopulmonary Resuscitation certification from the American Heart Association, American Red Cross, or other equivalent organization. Minimum 9th grade level reading proficiency on the Nelson-Denny 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 Arizona Revised Statute 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: A proper English placement score, or ENG 056, or ENG 061, or permission of department chair.

ENG101 3 Credits
First-Year Composition
Standard English writing skills. Emphasis on expository composition. Prerequisites: An appropriate English placement test score or a grade of "C" or better in ENG 071.

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: ENG 071 with a grade of "C" or better.

ENG107 3 Credits
First-Year Composition for ESL
Equivalent of ENG 101 for students of English as a Second Language (ESL). Standard American English writing skills and emphasis on expository composition. Prerequisites: An appropriate ESL or ASSET placement test score, or a grade of "C" or better in ESL 040, or ESL 040A A, ESL 040A B, and ESL 040A C, or ESL 042, or ENG 071 or ENG 077.

ENG108 3 Credits
First-Year Composition for ESL
Equivalent of ENG 102 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 ENG 101. Prerequisites: Grade of "C" or better in ENG 107.

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: ENG 101 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: ENG 102 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: ENG 102, or ENG 111 with a grade of "C" , or better, or permission of instructor.
ENG235
Magazine Article Writing
3 Credits
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
Introduction to Literature
3 Credits
Introduces students to literature through various forms of literary expression; e.g., poetry, drama, essay, biography, autobiography, short story, and novel. Prerequisites: None.

ENH214
Poetry Study
3 Credits
Involves reading, discussing, and analyzing poetry of various forms and from selected periods. Prerequisites: None.

ENH221
Survey of English Literature Before 1800
3 Credits
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
Survey of English Literature After 1800
3 Credits
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
American Literature Before 1860
3 Credits
Includes literature written prior to 1860 in the United States. Prerequisites: None.

ENH242
American Literature After 1860
3 Credits
Includes literature written after 1860 in the United States. Prerequisites: None.

ENH251
Mythology
3 Credits
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
Modern Fiction
3 Credits
Includes novels and short stories of modern writers which reflect significant themes of our time. Prerequisites: None.

ENH291
Children's Literature
3 Credits
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
Fire Department Operations
11 Credits
Introductory fire science course primarily designed for the new fire department recruit. Includes firefighting skills, equipment, and administrative policies, fire department operations, personnel policies, and International Fire Service Accreditation Congress Practical Skills Testing. Prerequisites or Corequisites: EMT 104 and permission of instructor.

FSC105
Hazardous Materials/First Responder
3 Credits
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
Fundamentals of Fire Prevention
3 Credits
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
Introduction to Fire Suppression
3 Credits
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
Fire Apparatus
3 Credits
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
Fire Hydraulics
3 Credits
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 pumpers. 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: FSC113 or permission of instructor or equivalent.

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.

FSC200  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 creditability 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 prediabetics 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: M AT 082 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 CHM 130 and CHM 130LL, or BIO 100, or BIO 156, or BIO 181, or approval of instructor.

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: FRE 102 with a grade of “C” or better or three years of high school French with an average of “C” or better.

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 MAT 172.

GBS233 3 Credits
Business Communication
Internal and external business communications, including verbal and nonverbal techniques. Prerequisites: ENG101 or ENG 107 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: GTC 127 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: GTC 127 or previous woodworking experience.

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: GTC 130 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: GTC 144, or departmental permission.
### Geography

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description and Analysis</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>GCU121</td>
<td>3</td>
<td>World Geography I: Eastern Hemisphere</td>
<td>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.</td>
<td>None</td>
</tr>
<tr>
<td>GCU122</td>
<td>3</td>
<td>World Geography II: Western Hemisphere</td>
<td>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.</td>
<td>None</td>
</tr>
<tr>
<td>GCU194</td>
<td>3</td>
<td>Special Topics in Cultural Geography</td>
<td>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).</td>
<td>None</td>
</tr>
<tr>
<td>GPH111</td>
<td>4</td>
<td>Introduction to Physical Geography</td>
<td>Spatial and functional relationships among climates, landforms, soils, water, and plants.</td>
<td>None</td>
</tr>
<tr>
<td>GPH112</td>
<td>3</td>
<td>Introduction to Physical Geography</td>
<td>Spatial and functional relationships among climates, landforms, soils, water, and plants.</td>
<td>None</td>
</tr>
<tr>
<td>GPH113</td>
<td>1</td>
<td>Introduction to Physical Geography Lab</td>
<td>Laboratory experience in support of GPH 112.</td>
<td>GPH 112</td>
</tr>
</tbody>
</table>

### Geology

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</tr>
</thead>
<tbody>
<tr>
<td>GLG101</td>
<td>3</td>
<td>Introduction to Geology I - Physical Lecture</td>
<td>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.</td>
<td>None</td>
</tr>
<tr>
<td>GLG103</td>
<td>1</td>
<td>Introduction to Geology I - Physical Lab</td>
<td>May accompany GLG 101. Study of common rock-forming minerals, rocks, and maps.</td>
<td>None</td>
</tr>
</tbody>
</table>

### German

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>GER101</td>
<td>4</td>
<td>Elementary German I</td>
<td>Basic grammar, pronunciation and vocabulary of the German language. Includes the study of German culture, practice of listening, speaking, reading and writing skills.</td>
<td>None</td>
</tr>
<tr>
<td>GER102</td>
<td>4</td>
<td>Elementary German II</td>
<td>Continued study of grammar and vocabulary of the German language along with the study of German culture. Emphasis on German language skills.</td>
<td>GER 101 or equivalent</td>
</tr>
<tr>
<td>GER201</td>
<td>4</td>
<td>Intermediate German I</td>
<td>Review of essential grammar of the German language and study of the German culture. Continued practice and development of reading, writing, and speaking skills.</td>
<td>GER 102, two years of high school German, or departmental approval</td>
</tr>
<tr>
<td>GER202</td>
<td>4</td>
<td>Intermediate German II</td>
<td>Continued development of German language skills and continued study of the German culture.</td>
<td>GER 201, or equivalent, or departmental approval</td>
</tr>
</tbody>
</table>

### Health Related

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description and Analysis</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCC101</td>
<td>.5</td>
<td>Health Care Today</td>
<td>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.</td>
<td>None</td>
</tr>
<tr>
<td>HCC103</td>
<td>.5</td>
<td>Workplace Behavior in Health Care</td>
<td>Health care and life values. Definition and importance of</td>
<td>None</td>
</tr>
</tbody>
</table>
values and ethics. Work ethic behaviors essential for the health care worker. Professional code of ethics, worker’s rights and responsibilities. Prerequisites: None.

HCC105  Personal Wellness and Safety  .5 Credit
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  Communication and Teamwork in Health Care Organizations  1 Credit
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  CPR for the Health Care Provider  .5 Credit
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  Fundamentals in Health Care Delivery  3 Credits
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. OSHA standard precautions. Prerequisites: None.

HCC130A  Personal Wellness and Safety  .5 Credit
Introduces healthful living practices to include nutrition, stress management and exercise. Includes OSHA Safety and Health Administration (OSHA) standard precautions and facility safety. Use of principles of body mechanics in daily living activities. Prerequisites: None.

HCC130AD  Communication and Teamwork in Health Care Organizations  .5 Credit
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  Legal and Ethical Issues in Health Care  .5 Credit
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 ethical decision making. Prerequisites: None.

HCC130AF  Decision Making in the Health Care Setting  .5 Credit
Principles and application of the decision making. Description and application of process improvement and the relationship to the decision making model. Prerequisites: None.

HCC140  Medical Terminology for Health Care Workers  2 Credits
Introduction to medical terms used in health care. Body systems approach common terms related to structures, functions, 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  Medical Terminology for Specialty Areas  1 Credit
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  Medical Terminology for Health Care Workers  3 Credits
Medical terminology used in health care, with special care populations and in special services. Body systems approach to terms related to structures, functions, procedures, and diagnostic tests. Building and analyzing terms using word parts. Medical abbreviations and symbols and term spelling. Prerequisites: None.

HCC145AA  Medical Terminology for Health Care Workers I  1 Credit
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: N one.

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 word parts and term spelling. Common abbreviations and symbols and term spelling. Prerequisites: H CC 145AA.

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: H CC 145AA and H CC 145AB, or H CC 146.

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, procedures, and diagnostic tests. Building and analyzing terms using word parts. Medical abbreviations and symbols and term spelling. Prerequisites: N one.

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: H CC 101, H CC 103, H CC 105, H CC 107 and H CC 109.

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: H CC 101, H CC 103, H CC 105, H CC 107 and H CC 109.

HES100 3 Credits
Healthful Living
Health and wellness and their application to an optimal lifestyle. 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: N one.

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: N one.

HIS103 3 Credits
United States History to 1870
The political, economic, and social development of United States from Colonial through Reconstruction period. Prerequisites: N one.

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: N one.

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: N one.

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: N one.

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: N one.

HIS273 3 Credits
US Experience in Vietnam 1945-1975
Survey of the U.S. experience in Vietnam, 1945-1975, in view of political, economic, and social forces of the Cold War. Prerequisites: N one.

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 Muslim 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: N one.
# Human Services

**HSA101 1 Credit**  
**Medical Assistance Customer Service**  
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.

**HSA105 .5 Credit**  
**Recognizing Domestic Violence**  
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.

**HSA110 2 Credits**  
**Eligibility Criteria I**  
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.

**HSA112 2 Credits**  
**Assistance Office Procedures**  
Procedures for Federal and State assistance offices. Includes office support procedures, computer systems, interview procedures. Prerequisites: None.

**HSA113 2 Credits**  
**Family Assistance Computer System Overview**  
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.

**HSA114 3 Credits**  
**Assistance Applications**  
Overview of Federal and State policies and procedures for determining food stamp eligibility and medical assistance referrals. Includes introduction to eligibility and medical assistance referral process, interviewing techniques, initial applications and forms processing. Prerequisites: None.

**HSA116 3 Credits**  
**Assistance Determination**  
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.

**HSA118 3 Credits**  
**Medical Assistance Determination**  
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.

**HSA120 2 Credits**  
**Eligibility Criteria II**  
Further examination of the eligibility determination process. Includes resource evaluation, citizenship/alien determinations and Sixth Omnibus Budget Reconciliation Act (SOBRA). Prerequisites: HSA110.

**HSA122 2 Credits**  
**Unemployment Insurance Claims Taking**  
Procedures for making claimant eligibility determinations and employer chargeability. Also includes interviewing techniques, required documentation and processes for generating determinations. Prerequisites: Departmental approval.

**HSA124 2 Credits**  
**Unemployment Insurance Adjudication I**  
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.

**HSA126 2 Credits**  
**Unemployment Insurance Adjudication II**  
Examination of advanced eligibility issues. Special types of adjudications including administrative penalties, retirement/pension and educational wages. Prerequisites: HSA124.

**HSA130 1 Credit**  
**Human Resource Management System**  
Introduction to the Human Resource Management System (HRMS). Covers basic components of the system as well as navigation and forms completion procedures. Prerequisites: None.

**HSA135 4 Credits**  
**Applied Eligibility**  
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: None.

**HSA150 2 Credits**  
**Government Office Management**  
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.
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: HSA 150.

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: HSA 160.

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: HSA 170.

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: HSA 222.

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: HSA 224.

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.
HUM 250 3 Credits
\textbf{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: ENG 101.

HUM 251 3 Credits
\textbf{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: ENG 101.

\section*{Industry}

IND 110 1 Credit
\textbf{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.

IND 111 3 Credits
\textbf{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.

IND 112 2 Credits
\textbf{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.

\section*{Integrated Studies}

IGS 290 3 Credits
\textbf{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: ENG 101 or ENG 107 or equivalent.

\section*{Japanese}

JPN 101 5 Credits
\textbf{Elementary Japanese I}
Basic grammar, pronunciation, and vocabulary of Japanese. Study of Japanese culture. Development of speaking, listening, reading and writing skills. Prerequisites: None.

JPN 102 5 Credits
\textbf{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: JPN 101 or departmental approval.

JPN 201 5 Credits
\textbf{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: JPN 102 or equivalent.

JPN 202 5 Credits
\textbf{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: JPN 201 or equivalent.

\section*{Latin}

LAT 101 4 Credits
\textbf{Elementary Latin I}
Introduction to the basic grammar and vocabulary of the Latin language. Practice reading and translating Latin into English. Prerequisites: None.

LAT 102 4 Credits
\textbf{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: LAT 101 or permission of instructor.

\section*{Law Enforcement Technology}

LET 100 1 Credit
\textbf{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.

LET 102 4 Credits
\textbf{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.

LET 106 2 Credits
\textbf{Patrol Procedures}
Overview of the types and purposes of police patrol; including vehicle patrol and routine patrol procedures, mediation,
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: LET 132.

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: LET 135.

LET137 1 Credit
Detention Officer Emergency Procedures

LET138 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: LET 138.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LET145</td>
<td>Arrest/Defense Tactics</td>
<td>5</td>
<td>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.</td>
</tr>
<tr>
<td>LET146</td>
<td>Officer Survival</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>LET150</td>
<td>Firearms I</td>
<td>3</td>
<td>Overview of firearms usage. Covers firearms safety and nomenclature, basic firearms usage techniques, and firearms care and cleaning. Prerequisites: Departmental approval.</td>
</tr>
<tr>
<td>LET151</td>
<td>Firearms II</td>
<td>2</td>
<td>Practical application of firearms usage. Covers loading and unloading ammunition, firearms safety, daytime and nighttime firing techniques and shooting positions. Prerequisites or Corequisites: LET 150.</td>
</tr>
<tr>
<td>LET152</td>
<td>Tactical Weapons</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>LET155</td>
<td>General Instructor Certification</td>
<td>3</td>
<td>Designed to aid persons responsible for training in the workplace. Emphasis on motivating the adult learner, systematic training, planning and evaluating performance. Prerequisites: None.</td>
</tr>
<tr>
<td>LET156</td>
<td>First Aid</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>LET161</td>
<td>Correctional Sergeant's Leadership Procedures</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>LET162</td>
<td>Introduction to Inmate Management</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>LET164</td>
<td>Correctional Information Systems</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>LET166</td>
<td>Correction Officers Safety and Weapons Training</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>LET168</td>
<td>Inmate Security Procedures</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>LET170</td>
<td>Security, Custody and Control Procedures</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>LET172</td>
<td>Conflict and Crisis Management</td>
<td>2</td>
<td>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.</td>
</tr>
</tbody>
</table>
LET176  2 Credits
Medical and Mental Health
Responsibilities of the correctional system staff with
regards to mental and 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.

LET178  3 Credits
Physical Fitness and Self Defense Training
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. Pre-
requisites: Departmental approval.

LET179  2 Credits
Traffic Enforcement Procedures
Overview of traffic 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.

LET183  2 Credits
Traffic Offenses
Transportation law provisions. Covers Arizona Revised
Statute (ARS) Title 28, drug transportation, and contra-
bond as well as civil and criminal traffic laws. Traffic
offenses, violation name, and classification included. Pre-
requisites: Departmental approval.

LET188  3 Credits
Vehicle Inspection
Commercial vehicle inspection procedures. Covers driver
and vehicle commercial transportation regulated by Ari-
zona Revised Statutes (ARS) 28 and 29. Includes
transportation of hazardous materials, various vehicle
components and systems, towaway operations, and inspec-
tion reports. Prerequisites: Departmental approval.

LET190  1 Credit
Human Communications and Relations
Overview of human communications and human rela-
tions, with special emphasis on techniques used to
overcome problems of communication. Covers various
communication methods used in dealing with the commu-
nity and techniques for handling crisis situations. Pre-
requisites: Departmental approval.

LET201  3 Credits
Physical Fitness Instructor Certification
Covers skills necessary to instruct and conduct physical fit-
tness tests using the Cooper Institute for A erobics Research
standards and the Peace Officer Physical Aptitude Test
(PO PAT) standards. Also covers basics of human anatomy,
strength training and aerobic conditioning as well as nutri-
tion and prevention of injuries. Prerequisites: Departmental
approval.

LET202  2 Credits
Traffic Procedures
Overview of traffic procedures. Includes citations and
warnings, traffic control, accident investigation, and deal-
ing with impaired drivers. Prerequisites: Departmental
approval.

LET203  2 Credits
Report Writing
Overview of types and parts of reports. Includes elements of
composition; characteristics of reports; substance; conclu-
sions; statistics; accurate and complete descriptions of persons
and property; and the importance of notes, their preservation,
and final use. Prerequisites: Departmental approval.

LET211  2 Credits
Criminalistics
Study of fingerprinting, crime scene processing, prelimi-
nary investigations and crime scene management. Pre-
requisites: Departmental approval.

LET223  1 Credit
Search and Seizure
Overview of statutes, constitutional requirements, and case
law covering search and seizure. Includes procedures for
obtaining and serving a search warrant as well as proce-
dures for searching persons, premises and vehicles. Pre-
requisites: Departmental approval.

LET225  4 Credits
Investigator Training
Police Detective Training. Emphasis on investigations,
search and seizure, legal aspects of interview and interro-
gation, report writing, case management, and field
problem scenarios. Prerequisites: 3 years experience as a
police officer and nine semester hours related college
courses.

LET226  6 Credits
Arrest and Defense Tactics Instructor Training
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.

LET229  1 Credit
High Risk Situations/Instructor Training
Techniques for instructing students in high risk/known
risk situations. Includes pre-stop procedures, primary and
back-up officer responsibilities, suspect removal, and vehi-
cle positioning. Prerequisites: None.

LET230  3 Credits
Cultural Awareness for Law Enforcement
Cultural diversity awareness for Law Enforcement Offi-
cers. Topics include multiculturalism, prejudice,
stereotypes, gender issues, power, and changing the status
quo. Prerequisites: Departmental approval.
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. Prerequi-
tsites: Departmental approval.

LET252  .5 Credit
Impaired Driver Testing
Proper use of a breath test device. Emphasis on the detec-
tion 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 analgesics as well as
inhalants, cannabis and drug combinations. Categories,
symptoms and indicators of use, also included. Prerequi-
tsites: Must be a law enforcement officer or have prior
approval from the State Drug Recognition Expert Opera-
tions 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 inter-
view 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 orienta-
tion to the Communications Center emphasized. Standards
for officers in training also evaluated as well as
emphasis on effective report writing. Prerequisites: D-epartmental approval.

LET279AC  5 Credits
Field Training: Phase III
Continuation of field training. Procedures in arrest of sus-
pects 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 appropri-
ate 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 Man-
agement 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
Use of libraries and their structure, tools, and staff to iden-
tify, locate, evaluate and make effective and ethical use of
information. Emphasizes critical thinking skills. Prerequi-
tsites: N one.

LBS201  1 Credit
Electronic Resources Concepts and Skills
Use of computers to access electronic databases and to
process search results. Includes search concepts and strate-
gies, evaluating search results, and bibliographic citing of
electronic sources. Prerequisites: N one.
## Management

**MGT101**
Techniques of Supervision
3 Credits
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**
Organizations, Paradigms, and Change
1 Credit
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**
Business Organization and Management
3 Credits
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**
Management and Leadership I
3 Credits
Covers management concepts and applications for business, industry, and government organizations. Prerequisites: None.

**MGT230**
Management and Leadership II
3 Credits
Includes practical applications of activities, issues, and problems related to current managerial and supervisory skills and talents. Prerequisites: MGT 229 or departmental approval.

**MGT251**
Human Relations in Business
3 Credits
Analysis of motivation, leadership, communications, and other human factors. Cultural differences that may create conflict and affect morale individually and within organizations. Prerequisites: None. MGT 101 or MGT 175 or MGT 229 suggested, but not required.

**MGT253**
Owning and Operating a Small Business
3 Credits
Starting, organizing, and operating a small business, including location, finance management processes, advertisement and promotion, credit, inventory control and ethics. Prerequisites: None.

**MGT259**
Management Seminar
1 Credit
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: MGT 260A A.

**MGT260AA**
Management Internship
3 Credits
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: MGT 259.

**MGT275**
Office Management and Procedures
3 Credits
Covers basic administrative office services and systems, including analysis and management of operations, information systems, human resources, and facilities design. Prerequisites: None. MGT 175, or MGT 229 suggested but not required.

**MGT276**
Personnel/Human Resources Management
3 Credits
Human resource planning, staffing, training, compensating, and appraising of employees in labor-management relationships. Prerequisites: None. MGT 101, or MGT 175, or MGT 229 suggested but not required.

## Marketing

**MKT271**
Principles of Marketing
3 Credits
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**
Basic Arithmetic
3 Credits
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**
Introductory Algebra
3 Credits
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: MAT 090, MAT 091, or MAT 092. Prerequisites: Grade of "C" or better in MAT 082, or MAT 102, or equivalent, or satisfactory score on district placement exam.
MAT092AA 1 Credit
Introductory Algebra/1st Degree Equations
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 MAT 082, or MAT 102, or equivalent, or satisfactory score on district placement exam.

MAT092AB 1 Credit
Introductory Algebra/Polynomials
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 MAT 092AA or equivalent.

MAT092AC 1 Credit
Introductory Algebra/Graphing Systems
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: MAT 090 or MAT 092. Prerequisites: Grade of “C” or better in MAT 092AC or equivalent.

MAT102 3 Credits
Mathematical Concepts/Applications
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 MAT 090 or equivalent, or satisfactory score on district placement exam.

MAT103AA 2 Credits
Mathematics for Industrial Applications I
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.

MAT103AB 2 Credits
Mathematics for Industrial Applications II
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: MAT 103AA or permission of the instructor.

MAT120 5 Credits
Intermediate Algebra
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: MAT 120, MAT 121, or MAT 122. Prerequisites: Grade of “C” or better in MAT 090, MAT 091, MAT 092, or equivalent, or a satisfactory score on the district placement exam.

MAT122 3 Credits
Intermediate Algebra
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: MAT 120, MAT 121, or MAT 122. Prerequisites: Grade of “B” or better in MAT 090, MAT 091, MAT 092, or equivalent, or a satisfactory score on the district placement exam.

MAT122AA 1 Credit
Intermediate Algebra I
Linear and quadratic equations and inequalities; systems of linear equations. May receive credit for only one of the following: MAT 120, MAT 121, or MAT 122. MAT 122AA, MAT 122AB, and MAT 122AC together are equivalent to MAT 122. Prerequisites: Grade of “C” or better in MAT 092AB or equivalent.

MAT122AB 1 Credit
Intermediate Algebra II
Absolute value equations and inequalities; radical expressions and functions. May receive credit for only one of the following: MAT 120, MAT 121, or MAT 122. MAT 122AA, MAT 122AB, and MAT 122AC together are equivalent to MAT 122. Prerequisites: Grade of “C” or better in MAT 122AB or equivalent.

MAT122AC 1 Credit
Intermediate Algebra III
Rational expressions, equations, and inequalities; exponential and logarithmic functions. May receive credit for only one of the following: MAT 120, MAT 121, or MAT 122. MAT 122AA, MAT 122AB, and MAT 122AC together are equivalent to MAT 122. Prerequisites: Grade of “C” or better in MAT 122AC or equivalent.

MAT142 3 Credits
College Mathematics
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 MAT 120 or MAT 121 or MAT 122 or equivalent, or satisfactory score on district placement exam.
MAT150  5 Credits  
\textbf{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: M AT 150, M AT 151, M AT 152, or M AT 187. Prerequisites: Grade of “C” or better in M AT 120 or M AT 121 or M AT 122 or equivalent, or satisfactory score on district placement exam.

MAT151  4 Credits  
\textbf{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: M AT 150, M AT 151, M AT 152, or M AT 187. Prerequisites: Grade of “C” or better in M AT 120, M AT 121, M AT 122 or equivalent, or satisfactory score on district placement exam.

MAT151AA  1 Credit  
\textbf{College Algebra/Introduction to Functions I}  
Relations and functions. M AT 151AA, M AT 151AB, M AT 151AC and M AT 151AD together are equivalent to M AT 151. May receive credit for only one of the following: M AT 150, M AT 151, M AT 152, or M AT 187. Prerequisites: Grade of “C” or better in M AT 120, M AT 121, M AT 122, or equivalent, or satisfactory score on district placement exam.

MAT151AB  1 Credit  
\textbf{College Algebra II}  
Polynomial functions. M AT 151AA, M AT 151AB, M AT 151AC and M AT 151AD together are equivalent to M AT 151. May receive credit for only one of the following: M AT 150, M AT 151, M AT 152, or M AT 187. Prerequisites: Grade of “C” or better in M AT 151AA.

MAT151AC  1 Credit  
\textbf{College Algebra III}  
Exponential and logarithmic functions. M AT 151AA, M AT 151AB, M AT 151AC and M AT 151AD together are equivalent to M AT 151. May receive credit for only one of the following: M AT 150, M AT 151, M AT 152, or M AT 187. Prerequisites: Grade of “C” or better in M AT 151AB.

MAT151AD  1 Credit  
\textbf{College Algebra IV}  
Systems of equations and inequalities; matrices; sequences and series. M AT 151AA, M AT 151AB, M AT 151AC and M AT 151AD together are equivalent to M AT 151. May receive credit for only one of the following: M AT 150, M AT 151, M AT 152, or M AT 187. Prerequisites: Grade of “C” or better in M AT 151AC.

MAT152  3 Credits  
\textbf{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: M AT 150, M AT 151, M AT 152, or M AT 187. Prerequisites: Grades of “B” or better in M AT 120, M AT 121, M AT 122, or equivalent, or a satisfactory score on district placement exam.

MAT156  3 Credits  
\textbf{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 M AT 120 or M AT 121 or M AT 122 or equivalent, or satisfactory score on district placement exam.

MAT157  3 Credits  
\textbf{Elements of Statistics}  
Basic concepts and applications of statistics, including data description, estimation and hypothesis tests. Prerequisites: Grade of “C” or better in M AT 150, or M AT 151, or M AT 152, or equivalent, or satisfactory score on district placement exam.

MAT172  3 Credits  
\textbf{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 M AT 150, or M AT 151, or M AT 152, or equivalent, or satisfactory score on district placement exam.

MAT182  3 Credits  
\textbf{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: M AT 182 or M AT 187. Prerequisites: Grade of “C” or better in M AT 150, or M AT 151, or M AT 152, or equivalent, or concurrently registered in M AT 150, or M AT 151, M AT 152, or satisfactory score on district placement exam.

MAT187  5 Credits  
\textbf{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: M AT 150, M AT 151, or M AT 187. Prerequisites: Grade of “B” or better in M AT 120, or M AT 122, or equivalent, or satisfactory score on a placement exam. Strongly recommended that students have some knowledge of trigonometry.

MAT212  3 Credits  
\textbf{Brief Calculus}  
A brief calculus course combining topics from college algebra and trigonometry. Preparation for analytic geometry and calculus. May receive credit for only one of the following: M AT 150, M AT 151, M AT 152, or M AT 187. Prerequisites: Grade of “B” or better in M AT 120, M AT 121, M AT 122, or equivalent, or satisfactory score on a placement exam.
M AT 150, or M AT 151, or M AT 152, 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: M AT 220 or M AT 221. Prerequisites: Grade of “C” or better in (M AT 150, or M AT 151, or M AT 152), and M AT 182, or M AT 187, 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: M AT 220 or M AT 221. Prerequisites: Grade of “C” or better in (M AT 150, or M AT 151, or M AT 152), and M AT 182, or M AT 187, 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: M AT 230 or M AT 231. Prerequisites: Grade of “C” or better in (M AT 150, or M AT 151, or M AT 152), and M AT 182, or M AT 187, 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 M AT 230 or M AT 231 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 M AT 230 or M AT 231 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  Introduction to Philosophy**  
3 Credits  
General consideration of human nature and the nature of the universe. Knowledge, perception, freedom and determinism, and the existence of God. Prerequisites: None.

**PHI105  Introduction to Ethics**  
3 Credits  
Major theories of conduct. Emphasis on normative ethics, theories of good and evil from Plato to the present. Prerequisites: None.

**PHI243  World Religions**  
3 Credits  
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  Special Projects**  
1 Credit  
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  Physical Activities: Fitness for Life**  
1 Credit  
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  Introduction to Physics**  
4 Credits  
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 MAT 091 or MAT 092, or satisfactory score on math placement exam.

**PHY111  General Physics I**  
4 Credits  
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  General Physics II**  
4 Credits  
Includes electricity, magnetism, optics, and modern physics. Prerequisites: PHY 105 or PHY 111.

### Political Science

**POS100  Introduction to Political Science**  
3 Credits  
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  American National Government**  
3 Credits  
Study of the historical backgrounds, governing principles, and institutions, of the national government of the United States. Prerequisites: None.

**POS115  Issues in American Politics**  
3 Credits  
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: ENG 101 or ENG 107 or equivalent.

**POS120  World Politics**  
3 Credits  
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  Issues in World Politics**  
3 Credits  
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  U.S. and Arizona Constitution**  
3 Credits  
Examination of the United States Constitution and the constitution and government of the State of Arizona. Prerequisites: None.

**POS221  Arizona Constitution**  
1 Credit  
Equivalent to the second part of POS 220. May not enroll in POS 220 and POS 221 concurrently. Prerequisites: None.

**POS222  U.S. Constitution**  
2 Credits  
Examination of the United States Constitution. Equivalent to the first part of POS 220. May not enroll in POS 220 and POS 222 concurrently. Prerequisites: None.
Professional Growth

**PGR120AB** 1 Credit  
*Elements of Agency Management: Interpersonal Relationship Skills*  
Interpersonal relationship techniques used in working with social service agency clients. Prerequisites: None.

**PGR120AC** 1 Credit  
*Elements of Agency Management: Cultural Awareness*  
Cultural factors that effect attitudes, beliefs, values, and behaviors when communicating and interacting with social service agency clients. Prerequisites: None.

**PGR120AE** 1 Credit  
*Elements of Agency Management: Written Communication Skills*  
A study of written Communication with particular emphasis on skills required in agency management. Includes outlining, summarizing, report writing and proper punctuation. Prerequisites: None.

Employee Development:

**PGR211** 1 Credit  
*Employee Development: Effective Communication*  
Techniques for effective business communications. Includes active listening techniques and common barriers to the listening process. Prerequisites: None.

Psychology

**PSY101** 3 Credits  
*Introduction to Psychology*  
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.

**PSY125** 3 Credits  
*Leadership and Group Dynamics*  
Practical experience and theory in effective leadership and group problem solving. Includes principles of group dynamics and theory of shared leadership. Prerequisites: None.

**PSY211** 3 Credits  
*Crisis Management*  
Provides training in crisis management for emergency medical technicians. Includes personal management of stress, medical emergencies, rape, suicide, death and dying. Prerequisites: PSY 101 with a grade of “C” or better or permission of instructor.

**PSY230** 3 Credits  
*Introduction to Statistics*  
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: PSY 101 with a grade of “C” or better and MAT 092 or equivalent, or permission of instructor.

**PSY240** 3 Credits  
*Developmental Psychology*  
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: PSY 101 with a grade of “C” or better or permission of the instructor.

**PSY245** 3 Credits  
*Psychology of Adult Development*  
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: PSY 101 with a grade of “C” or better, or permission of instructor.

**PSY250** 3 Credits  
*Social Psychology*  
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: PSY 101 with a grade of “C” or better or permission of the instructor.

**PSY260** 3 Credits  
*Personality Development*  
Introduction to theories of personality with emphasis upon application of specific theories towards the understanding of individuals. Prerequisites: PSY 101 with a grade of “C” or better or permission of instructor.

**PSY266** 3 Credits  
*Abnormal Psychology*  
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: PSY 101 with a grade of “C” or better, or permission of instructor.

**PSY270** 3 Credits  
*Personal and Social Adjustment*  
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: PSY 101 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: PAD 101, or PAD 103, or MGT 175 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: PAD 104. Not open to students with credit in PAD 121.

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: PAD 101 or PAD 103 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: ENG 101 and (reading placement test score of 41 or higher (ASSET), or grade of “C” or better in RDG 091, 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 RDG 091, 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 RDG 081, 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 RDG 091 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

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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SLG090AA</td>
<td>1</td>
<td>Speedy Sign Language I</td>
</tr>
<tr>
<td>SLG101</td>
<td>4</td>
<td>American Sign Language I</td>
</tr>
<tr>
<td>SLG102</td>
<td>4</td>
<td>American Sign Language II</td>
</tr>
</tbody>
</table>

**SLG090AA**  
Introduction of techniques for communicating with deaf people using American Sign Language (A.S.L.). Expres-
sive and receptive sign skills, manual alphabet, numbers, and basic sign vocabulary. Prerequisites: N one. Suggested but not required: SLG103.

**SLG101**  

**SLG102**  
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: SLG 101, with a grade of “C” or better, or permission of department/division. SLG 110 suggested as a corequisite but not required.

### Sociology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SOC101</td>
<td>3</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>SOC110</td>
<td>3</td>
<td>Drugs and Society</td>
</tr>
<tr>
<td>SOC140</td>
<td>3</td>
<td>Racial &amp; Ethnic Minorities</td>
</tr>
<tr>
<td>SOC157</td>
<td>3</td>
<td>Sociology of Marriage &amp; Family</td>
</tr>
<tr>
<td>SOC212</td>
<td>3</td>
<td>Women and Men in a Changing Society</td>
</tr>
<tr>
<td>SOC245</td>
<td>3</td>
<td>Social Deviance</td>
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<tr>
<td>SOC251</td>
<td>3</td>
<td>Social Problems</td>
</tr>
<tr>
<td>SOC245</td>
<td>3</td>
<td>Social Deviance</td>
</tr>
</tbody>
</table>

**SOC101**  
Fundamental concepts of social organization, culture, socialization, social institutions and social change. Prerequisites: N one.

**SOC110**  
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: N one.

**SOC140**  
Contemporary racial and ethnic intergroup relations emphasizing cultural origins, developments, and problems of minority groups in the United States. Prerequisites: N one.

**SOC157**  
The study of courtship, marriage, and family patterns, their historical development, their adaptation to a changing culture, and their impact on individuals. Prerequisites: N one.

**SOC212**  
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: N one.

**SOC245**  
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: SOC 101.

**SOC251**  
A sociological exploration of selected social problems. Emphasis on current concerns. Prerequisites: SOC 101.

### Spanish

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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPA101</td>
<td>4</td>
<td>Elementary Spanish I</td>
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<tr>
<td>SPA102</td>
<td>4</td>
<td>Elementary Spanish II</td>
</tr>
<tr>
<td>SPA109</td>
<td>4</td>
<td>Law Enforcement Spanish I</td>
</tr>
<tr>
<td>SPA115</td>
<td>3</td>
<td>Beginning Spanish Conversation I</td>
</tr>
</tbody>
</table>

**SPA101**  
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: N one.

**SPA102**  
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: SPA 101 or departmental approval.

**SPA109**  
Conversational and written Spanish for law enforcement personnel. Includes basic sentence structure, pronuncia-
tion, vocabulary practice, speaking, listening, reading and basic writing ability in common job-related situations. Prerequisites: N one.

**SPA115**  
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: N one.
SPA116 3 Credits
Beginning Spanish Conversation II
Continued development of speaking and listening skills for effective communication in Spanish. Prerequisites: SPA 115 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: SPA 102, 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: SPA 201 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 SPA 005AA and SPA 109 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: GBS 151 and either SPA 201 or permission of instructor.

SPA225 3 Credits
Intermediate Spanish Conversation I
A continuation of SPA 116. Continued development of skills in conversational Spanish. A review of the major grammatical and pronunciation problems. Prerequisites: SPA 116, or SPA 102 or departmental approval.

SPA226 3 Credits
Intermediate Spanish Conversation II
A continuation of SPA 225. Continued development of skills in conversational Spanish with a review of grammatical problems. Prerequisites: SPA 225, 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: SPA 202 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 SPA 265. Prerequisites: SPA 265 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) SPA 282 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.

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.

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**

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<td>Total Quality Concepts</td>
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<td>TQM204</td>
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<td>Team Roles and Dynamics</td>
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<td>2</td>
<td>Managing Diversity</td>
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<td>TQM214</td>
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<td>2</td>
<td>Leadership and Empowerment Strategies</td>
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<td>TQM230</td>
<td>2</td>
<td>Teamwork Dynamics</td>
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<td>TQM235</td>
<td>2</td>
<td>Motivation, Evaluation, and Recognition Systems</td>
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<td>TQM240</td>
<td>2</td>
<td>Project Management in Quality Organizations</td>
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<td>TQM290AA</td>
<td>1</td>
<td>TQM Internship</td>
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<tr>
<td>TQM292</td>
<td>1</td>
<td>Innovation Strategies</td>
</tr>
<tr>
<td>TQM290AA</td>
<td>1</td>
<td>TQM Internship</td>
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**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.
COURSE DESCRIPTIONS

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

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<th>Description</th>
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<td>WWM106</td>
<td>3</td>
<td>Small Water System Operation and Maintenance</td>
<td>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.</td>
</tr>
<tr>
<td>WWM110</td>
<td>3</td>
<td>Principles of Water Treatment Plant Operations</td>
<td>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.</td>
</tr>
<tr>
<td>WWM112</td>
<td>3</td>
<td>Basic Water Treatment Processes</td>
<td>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: W WM 110.</td>
</tr>
<tr>
<td>WWM114</td>
<td>3</td>
<td>Mineral Control</td>
<td>Operation and maintenance processes in the treatment for iron, manganese, hardness, trihalomethanes and minerals. The importance of fluoridating drinking water and water softening. Prerequisites: W WM 110 or W WM 112.</td>
</tr>
<tr>
<td>WWM116</td>
<td>3</td>
<td>Water Treatment Plant Administration</td>
<td>Administration safety and maintenance of a water treatment plant. Handling and disposal of process wastes, instrumentation use, laboratory procedures, drinking water regulations. Prerequisites: W WM 110.</td>
</tr>
<tr>
<td>WWM120</td>
<td>3</td>
<td>Operation of Wastewater Treatment Plants</td>
<td>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 wastewater treatment ponds, disinfection and chlorination process. Prerequisites: None.</td>
</tr>
<tr>
<td>WWM122</td>
<td>3</td>
<td>Basic Wastewater Treatment Processes</td>
<td>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: W WM 120.</td>
</tr>
<tr>
<td>WWM124</td>
<td>3</td>
<td>Sludge and Solids Handling</td>
<td>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: W WM 120 or W WM 122.</td>
</tr>
<tr>
<td>WWM126</td>
<td>3</td>
<td>Wastewater Plant Administration</td>
<td>Administrative responsibilities in operating a wastewater plant including safety and maintenance. Emphasis on laboratory procedures, reporting data in reports and graphs and recordkeeping. Prerequisites: W W M 124.</td>
</tr>
<tr>
<td>WWM130</td>
<td>3</td>
<td>Wastewater Collection Systems Operation and Maintenance</td>
<td>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.</td>
</tr>
<tr>
<td>WWM132</td>
<td>3</td>
<td>Wastewater Collection Systems Administration</td>
<td>Overview of administrative duties of operating a wastewater collection system. Principles of lift stations, equipment maintenance and sewer rehabilitation also covered. Prerequisites: W W M 130.</td>
</tr>
<tr>
<td>WWM134</td>
<td>3</td>
<td>Water Distribution System Operation and Maintenance</td>
<td>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.</td>
</tr>
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<td>WWM136</td>
<td>3</td>
<td>Industrial Wastewater Treatment Regulations</td>
<td>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: W WM 120.</td>
</tr>
<tr>
<td>WWM138</td>
<td>3</td>
<td>Pretreatment Facilities Inspection</td>
<td>Exploration of procedures used to conduct on-site inspections of industrial pretreatment facilities. Emphasis on sampling, flow monitoring and pretreatment technology. Prerequisites: W WM 250.</td>
</tr>
<tr>
<td>WWM140</td>
<td>1</td>
<td>Special Topics in Water/Wastewater Treatment</td>
<td>Special topics in water and wastewater management. May be repeated. Prerequisites: Departmental approval.</td>
</tr>
</tbody>
</table>

# Wellness Education

<table>
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<th>Description</th>
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<td>WED156</td>
<td>1</td>
<td>Humor and Play</td>
<td>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.</td>
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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

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 West Valley (Luke Air Force Base)
56th Support Center
7383 North Litchfield Road, Glendale
(two blocks north of 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.