

Catalog & Student Handbook



2003-2004 Academic Calendar

Fall Semester - 2003

	*
Saturday	August 23
Monday	September 1
Friday	October 3
Friday	October 10
Tuesďay	November 11
Thursday-Sunday	Nov. 27 - 30
Monday	December 1
Sunday	December 14
Friday-Thursday	December 12 - 18
Friday	December 19
Friday	December 19
	Monday Friday Friday Tuesday Thursday-Sunday Monday Sunday Friday-Thursday Friday

Spring Semester - 2004

*Registration		*
Classes Begin	Saturday	January 17
Martin Luther King, Jr. Birthday Recess	Monday	January 19
President's Day Recess	Monday	February 16
Apply for May 2004 Graduation On or Before	Friday	March 5
Last Day for Withdrawal without Instructor's Signature	Friday	March 5
Spring Recess	Monday-Sunday	March 15 - 21
Last Day Student Initiated Withdrawal Accepted	Monday	April 26
Last Day of Regular Classes	Sunday	May 9
Final Exams	Friday-Thursday	May 7 - 13
Commencement	Friday	May 14
Spring Semester Ends	Friday	May 14

Summer School - 2004

Note: Subject to Fall 2004 Catalog

*Registration		*
Memorial Day Recess	Monday	May 31
First 5-Week and 8-Week Session Begins	Tuesday	June 1
First 5-Week Session Ends	Thursďay	July 1
Independence Day Recess	Monday	July 5
Second 5-Week Session Begins	Tuesday	July 6
8-Week Session Ends	Thursďay	July 22
Second 5-Week Session Ends	Thursday	August 5

^{*} For specific information concerning registration dates, class start dates, and final exam dates, consult the Class Schedule.

Welcome to Chandler-Gilbert Community College



President Maria L. Hesse

Welcome to Chandler-Gilbert Community College, now serving more than 10,000 students in the southeast metro Phoenix area. We are honored that you have chosen us as the place to pursue your higher education. We're committed to do everything we can to help you succeed.

This catalog is a valuable resource for you. Use it often to familiarize yourself with programs and classes, college policies, activities and services at our three campus locations—Pecos, Williams, and Sun Lakes.

Our college continues to experience phenomenal growth, mirroring our service area. It's a challenge to keep up with the educational needs of citizens in Chandler, Gilbert, Queen Creek and other southeast valley communities, but it's a challenge we relish. No matter how fast we grow together in the southeast valley, there are elements of the college that will remain constant—our commitment to students and their success, our dedication to quality teaching and learning experiences, and our willingness to be responsive to the needs of our local communities.

I invite you to take advantage of all CGCC has to offer to you in the pursuit of your educational goals and life dreams.

Sincerely,

Maria L. Hesse



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General Information



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Chandler-Gilbert Community College

Maria L. Hesse President (480) 732-7010

Lois M. Bartholomew Dean, Student Services (480) 732-7309

Librado (Lee) Garza *Dean, Administrative Services*(480) 732-7211

Courses, programs, and requirements described in this catalog may be suspended, deleted, restricted, supplemented, or changed in any other manner at any time at the sole discretion of the college and the Maricopa Community College District Governing Board. This catalog does not establish a contractual relationship but summarizes total requirements that the student must presently meet before qualifying for a faculty recommendation to the Governing Board to award a degree or certificate.

The Maricopa Community College District reserves the right to change, without notice, any of the materials—information, requirements, regulations—published in the catalog.

Chandler-Gilbert Community College (CGCC) is accredited by The Higher Learning Commission and is a member of the North Central Association, 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504; (800) 621-7440.

CGCC Vision

Chandler-Gilbert Community College strives to be a dynamic learning community reflecting collaboration, diversity, and student success through quality, enthusiastic teaching, learning, and serving.

CGCC Mission Statement

Chandler-Gilbert Community College serves students and its diverse communities by providing quality lifelong learning opportunities in a learner-centered environment through effective, accessible educational programs and activities.

William Guerriero

Dean, Instruction (480) 732-7012

William Crawford III

Associate Dean, Occupational Education (480) 732-7016

Earl R. Monsour

Associate Dean, Technology (480) 732-7247

We fulfill this mission as an institution of higher education through:

- University Transfer Education
- General Education
- Developmental Education
- Workforce Development
- Academic Support Services
- Student Support Services
- Continuing Education
- Community Education

CGCC Strategic Goals

- Provide quality educational programs, services and resources for the citizens of Chandler, Gilbert, Queen Creek, Higley, and the surrounding communities.
- Offer developmental courses that will empower students to succeed in pursuing higher educational opportunities.
- Support our community's economic development by providing educational programs to meet the specialized needs of business, industry, and the community.
- Enable the institution to respond to the changing needs of today's educational programs, by providing technology for instruction and operations.

- 5. Enhance student success by providing quality student and academic support services.
- 6. Promote community service and student development opportunities.
- Foster activities and programs that promote the understanding, appreciation and acceptance of diversity.
- 8. Serve as a community resource for social and cultural interaction.

Student Development Philosophy

The goal of Chandler-Gilbert Community College is to assure student success. Success is defined as the accomplishment of, or the continued opportunity to accomplish, students' individual goals. The success of our students will be determined not only by their acquisition of knowledge and skills, but also by their personal growth and development. This would include intellectual development, multicultural awareness, aesthetic appreciation, physical wellness, emotional well-being, community responsibility, and values clarification.

Chandler-Gilbert Community College will provide the environment in which students can identify and pursue their goals. The following general institutional practices are necessary to insure student success:

- To provide programs that assure student competence in specified academic and skill areas;
- 2. To provide a full range and schedule of services to permit students to benefit from college programs;
- To provide simplified and clearly defined processes for admitting students, monitoring their progress and maintaining accurate academic records;
- 4. To provide activities that encourage students to effectively interrelate with others in their college and communities:
- To provide opportunities for the development of self-esteem, personal identity, independence and self-direction;
- To provide coordination with secondary and postsecondary schools, and business and industry;
- To provide delivery of instructional services through alternative systems which prepare stu-

- dents to function in an increasingly technological and informational-based society; and
- 8. To develop and implement a comprehensive staff development program to educate the staff in student development philosophy and practices.

Chandler-Gilbert Community College will assist students in initiating their own paths to success. The college recognizes that all students are unique and capable adults, responsible for directing their own development throughout life, and that the major responsibility for a student's development rests with the student. All faculty, administrators and staff members of CGCC will support and contribute to the implementation of this student development philosophy.

Instructional Philosophy

At Chandler-Gilbert Community College, the goal is to provide quality educational courses and programs to help students reach whatever their goals may be—transferring to a university program, entering the job market, seeking a promotion, or exploring a personal interest.

CGCC teachers use a variety of learning strategies. They use collaborative learning activities, perform classroom research, involve students in service learning experiences, and form learning communities. As often as possible, students are involved in seeing, doing, solving, discussing and reflecting, rather than just listening to an instructor lecture about a subject.

Instructors focus on development of critical thinking and other skills that will serve students well in their professional and personal lives. The student learning and outcomes assessment program helps gauge progress in regard to developing skills in these areas, as well as in writing, mathematics, speaking, computer literacy, and other areas.

Development of a sense of social responsibility and community engagement is another area of emphasis. CGCC's service learning program, community hour program, and learning communities have received national recognition by the League of Innovation, the American Association of Higher Education, the American Association of Community Colleges, and other prominent organizations for their effectiveness in increasing student connections to one another, to the faculty, and to their communities.

Beyond offering classes at convenient times, in a variety of formats, and at a reasonable cost to the stu-

dent, CGCC has the added goal of providing an experience that will have lifelong worth. There is a serious institutional commitment to make students' college years a transforming experience by engaging them actively in the subjects they are studying.

COLLABORATIVE LEARNING

In collaborative learning, faculty facilitate small groups of students who work together to optimize their own and each other's learning. When students interact with each other and become active rather than passive learners, their achievement as well as their cognitive and social development improves. The challenge for faculty is to inspire and motivate students toward the common purpose of maximizing each other's learning.

SERVICE LEARNING

Service learning combines community service with academic instruction, focusing on critical thinking and problem solving, values clarification, social and personal development, and civic and community responsibility. Classes engaged in service learning provide meaningful services to the community while making the curriculum more relevant to students' lives

When designing a service learning component for a course, faculty must be careful to include a clear connection between the service and the course competencies or objectives, a carefully structured assignment that includes a reflection component, and a meaningful contribution to the community. The extent of the service experience will vary based upon the degree to which the service connects with the course objectives.

LEARNING COMMUNITIES

Sometimes called "block" courses, "linked" courses or "interdisciplinary" studies, two or more classes are connected through content, ideas, or activities. Often these courses are team-taught by college faculty.

In a learning community, students learn with the same group of peers for more than one class period. Not only does this format help students form friendships and support each other, but it also allows students to feel more comfortable contributing to each other's learning as they explore topics for longer periods of time. Actively learning together, the class can examine ideas from multiple perspectives. Seeking connections between the subject matters in a learning community often carries over into other classes and into life. Additionally, assignments for the two or more courses are coordinated, which deepens

learning. To further enhance learning, field trips, service learning, and guest speakers are often used, extending the classroom into the community.

CLASSROOM RESEARCH

Classroom research encourages college faculty to become more systematic and sensitive observers of learning as it takes place. Assessment instruments are created, administered, and analyzed by the teachers themselves. Students and teachers are involved in the continuous monitoring of student learning. This process helps students reflect on what they have learned and how they have learned it, while providing faculty with continuous feedback about their effectiveness as teachers.

STUDENT LEARNING AND OUTCOMES ASSESSMENT

Assessment of student learning at Chandler-Gilbert Community College (CGCC) is continuously undertaken to monitor and improve the degree to which students are meeting college level competencies. The assessment process engages residential and adjunct faculty in the systematic collection and examination of student academic achievement data and in the interpretation of results, which leads to reflection and review of teaching practices and recommended changes in academic programs, staff development and strategic planning. The purpose of assessment is to improve teaching and learning. The faculty and programs at CGCC are dedicated to effective teaching and successful learning with emphasis in the following areas: reading, speaking, listening, writing, mathematics, science, computer application skills, humanities, problem-solving, information literacy, critical thinking, and personal development.

Students participate in formal and informal assessment activities that will help faculty improve instructional programs and teaching strategies. Assessments of student learning are taken at five different levels to impact learning at CGCC: 1. Individual classroom level, 2. Course level, 3. Program level, 4. Division level, and 5. College level.

History of the College

In 1978, the Long Range Master Plan for Maricopa County Community College District, 1978-2000, recommended a new campus site for the East Valley in the Chandler-Gilbert service area. The plan designated Mesa, Phoenix, and Glendale Community Colleges as Regional Campuses to be expanded to a capacity of 5,000 day Full-Time Student Equivalents

(FTSE). Mesa Community College (MCC) reached and surpassed that number. All other campuses (Scottsdale, South Mountain, Maricopa Tech) would be designated as "area" campuses. Tadlock Associates (TAI), who developed the Master Plan, recommended that new area campuses be developed in south Mesa, Litchfield/Goodyear, and north Phoenix. The District completed the south Mesa (Chandler-Gilbert) and north Phoenix (Paradise Valley) site acquisitions early in 1981.

The new campus would be opened as an extension of Mesa Community College until an application for independent accreditation would be completed. In 1984, MCC Dean of Students Arnette Scott Ward was selected as the founding provost of the new educational center.

An 80-acre Chandler site was purchased at the corner of Gilbert and Pecos Roads in 1981. In 1983, leaders in the Chandler and Gilbert communities formed the Southeast Valley Task Force to support the new campus, and a successful bond election in 1984 provided funds to begin construction of the new campus.

In May, 1985, the Chandler-Gilbert Education Center Master Plan Proposal was submitted to the MCC President and later approved by the Maricopa Community College District Governing Board. The proposal was designed by the Provost and two Assistant Provosts of the Chandler-Gilbert Education Center in consultation with the Southeast Valley Task Force. The proposal included curricular recommendations, program groupings and permanent facilities proposals. Also central to the proposal were these institutional purposes:

- 1. To create a caring community and student-centered educational environment;
- To provide a challenging, creative environment through modern architecture, educational programming and technology;
- To keep the community informed and involved in the programs and services of the educational center;
- 4. To recruit students not normally attracted to college and provide a developmental program and curriculum to meet the variety of needs presented:
- To encourage student development of goals; to assist with student development of personal, academic and career plans, and to monitor and support their achievement;

- To provide a system and an environment that encourages student success;
- To provide students with excellence in teaching and access to learning resources, including hardware and software;
- 8. To provide a quality academic program leading to associate and baccalaureate degrees;
- To provide state-of-the-art career training in vocational and technical areas, in response to community needs, and leading to certificates, associate and baccalaureate degrees;
- To meet the training needs of the high technology industries;
- 11. To accommodate adult, lifelong educational needs for personal and career development through classes, flexible scheduling, and convenient means for accessing information;
- 12. To provide service programs of interest to community groups;
- 13. To provide efficient and timely information and management services for students and the community, using computer systems and telecommunications networks;
- 14. To provide a comprehensive program of co-curricular activities;
- To inspire student achievement of excellence in their chosen field and vocational activities.

These purpose statements were the framework for the development of the first CGCC mission statement. These purposes are demonstrated throughout the college from the building design to the curriculum.

Chandler-Gilbert Community College Center opened in 1985 as an extension of Mesa Community College in remodeled facilities of the former Seton High School in central Chandler. This was 10 years ahead of schedule, based on projections in the 1978 Long Range Master Plan for Maricopa County Community College District. The new campus, located at the corner of Gilbert and Pecos Roads, was completed for the fall 1987 semester. In the 1991-92 academic year, the college center completed an institutional self-study required for independent accreditation status. Successful fulfillment of the self-study process resulted in the college center being granted accreditation by the North Central Association on February 28, 1992.

Funded with bond proceeds approved by Maricopa County voters in November of 1994 for Maricopa Community College District capital improvements, CGCC received \$31 million in allocations to expand the college. This phase of construction totaled more than \$18 million for new building space with another \$10 million in technology, voice, video and data connections. Two large academic buildings and an enhanced physical plant added over 141,000 square feet in facilities to the Pecos Campus's 75,000 square feet. Other funded projects in the bond were additional land on the Pecos Campus, the opening of the Sun Lakes Education Center, and improvements to the Williams Campus. The final phase of construction at the Pecos Campus now includes a Student Center and a new Performing Arts Center.

The closing of the Williams Air Force Base in Mesa opened new opportunities for CGCC. The Williams Air Force Base Economic Reuse Plan (August, 1992) provided initial direction for the establishment of a consortium-based campus, comprised of a variety of educational institutions, which would jointly develop and utilize a wide array of education, research and training facilities as well as take advantage of its close proximity to the new Williams Gateway Airport. The Williams Education, Research, and Training Campus Master Plan was initiated in May, 1994, to define and plan for a 753 acre, multi-institutional campus at the former Air Force Base. CGCC has a strong educational partnership with ASU East as well as the University of North Dakota Aerospace, Embry-Riddle Aeronautical University, and United States Air Force Armstrong Laboratory. Aviation flight and aviation

maintenance classes began Spring 1995; general studies classes began Fall 1996.

Sun Lakes Education Center partnered with Chandler Regional Hospital to provide health and education services to the greater Sun Lakes community. Passage of the general obligation bond in November, 1994, provided \$500,000 for the development and construction of a 5,000 square feet education center in the Sun Lakes/Sun Bird communities. Sun Lakes Education Center, planned as a college extension to serve the retirement community of Sun Lakes, is located on the northeast corner of the Alma School and Riggs Roads in Chandler/Sun Lakes. Non-credit classes began in the Fall 1995 and credit classes began Fall 1997.

After 17 years of leading Chandler-Gilbert Community College, founding President Arnette Scott Ward retired in July, 2002. President Ward's retirement marks the end of the birth and development of CGCC and welcomes the new era as the college continues to grow into a full comprehensive community college.

Chandler-Gilbert Community College is part of the Maricopa County Community College District. The Maricopa Community College District is part of the Arizona state community college system, which is organized on a county basis. The Maricopa Community College District is a large, urban, college system comprised of 11 entities: 10 colleges and a skill center, some with multiple campuses.

Higley Mall

Oween Creek Mall

San Tan Mall

EAST PARKING

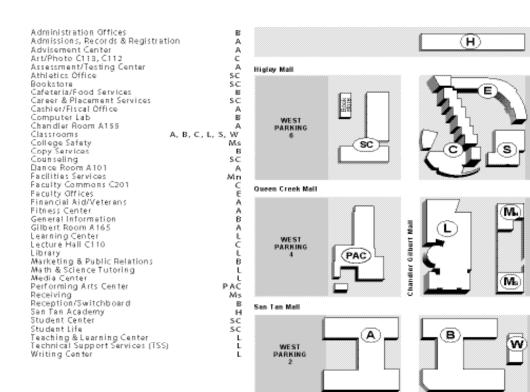
One College ~ Three Campuses

Pecos Campus

2626 East Pecos Road Chandler, AZ 85225-2499 (480) 732-7000

The Pecos Campus of CGCC is located on Pecos Road between Cooper and Gilbert Roads in Chandler. The more than 242,000 square feet of facilities is home to numerous associate degree, university transfer, general studies, occupational, and special interest courses and programs.



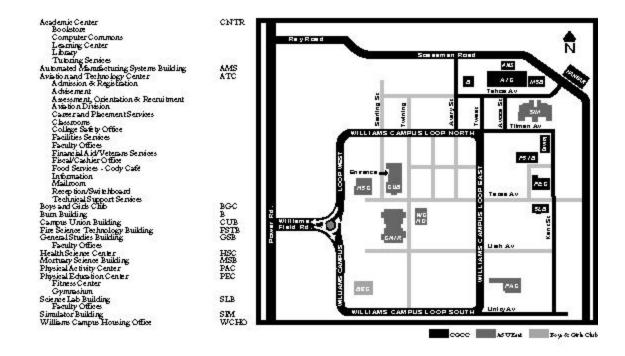


Williams Campus

7360 East Tahoe Avenue Mesa, AZ 85212-0908 (480) 988-8000

The Williams Campus of CGCC is located at Williams Gateway Airport on Power Road between Ray and Williams Field roads. Administrative offices are located at 7360 East Tahoe Avenue, and are easily accessible by taking the Ray Road extension east of Power Road. The campus is a partnership among several institutions, anchored by CGCC and Arizona State University East. A complete Student Services office is also located at Williams, as well as student housing.



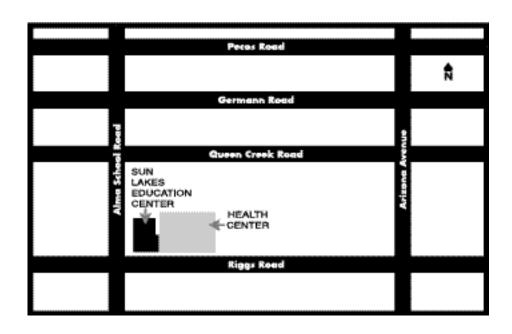


Sun Lakes Education Center

25105 South Alma School Road Sun Lakes, AZ 85248-7158 (480) 857-5500

The Sun Lakes Education Center of CGCC is located at the northeast corner of Alma School and Riggs roads in Sun Lakes. The Center offers a variety of credit and non-credit special interest courses, such as computer classes, and is designed to serve the lifelong learning needs of a large retirement population in the Southeast Valley.





Community Partnerships

The college and the community are interrelated in many ways. College personnel and students are very involved in the community and serve on a variety of committees and boards to plan for the future. Participation in local civic, governmental, business, professional, and service organizations and activities abounds. College representatives participate in local city and chamber of commerce planning processes, including the Chandler Tomorrow Conference and Gilbert Today. Students are involved in service-learning projects in the community. Many opportunities exist for staff and students to become more involved in community service.

Likewise, community members are involved in Chandler-Gilbert Community College (CGCC) committees and planning. College facilities and services, including the Library, classrooms, meeting space, Computer Lab, and Fitness Center, are used by community groups.

Affiliations and Associations

Commission on Accreditation for Dietetics Education

The Dietetic Technology Program is currently granted developmental accreditation by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association, 216 West Jackson Boulevard, Chicago, IL 60606-6995, (312) 899-4876. Upon successful completion of the program, the graduate will be eligible to take the CADE Registration Examination in order to become a Dietetic Technician, Registered (DTR).

Federal Aviation Administration

The Aircraft Maintenance Technology Programs, designed to prepare students for licensure as certified airframe and powerplant (A&P) mechanics, are certified by the Federal Aviation Administration (FAA), Part 147.

The Aircraft Flight Technology Programs, designed to prepare students to apply technical knowledge and skills to prepare them for Commercial Pilot Certificate with Single Engine Airplane Land Rating and Instrument Rating, and the Multiengine Rating, through a partnership with the University of North Dakota, are certified by the FAA, Part 141.

All aviation programs are housed in the Aviation and Technology Center at the Williams Campus, 7360 East Tahoe Avenue, Mesa, AZ 85212-0908.

Maricopa County Community College District

In 1962, the citizens of Maricopa County voted to establish a college district. Phoenix College, which was founded in 1920 as part of the Phoenix Union High School District, became the first college in the new Maricopa County Community College District in 1963.

On July 1, 1965, the Governing Board created Mesa Community College on 160 acres at Dobson Road and Southern Avenue in Mesa. At the same time, the Governing Board combined the Camelback and Glendale extensions of Phoenix College to establish Glendale Community College on 160 acres at 6000 West Olive Avenue in Glendale. By 1981, Mesa Community College had become the largest college in the District.

The Maricopa Skill Center opened in 1964 and the other community colleges soon followed: GateWay opened as Maricopa Tech in 1967; Scottsdale in 1970; Rio Salado, "the college without walls," in 1978; South Mountain in 1979; Paradise Valley and Chandler-Gilbert in 1985; and Estrella Mountain in 1990.

Maricopa Colleges Foundation

The Maricopa Colleges Foundation is a private, non-profit Arizona corporation established in 1977 to supplement the financial needs of the Maricopa Community Colleges. The Foundation is a qualified 501 (c) (3) organization in accordance with federal regulations. A volunteer board of directors assists in the acquisition and management of funds and/or property derived from bequests, corporate contributions, foundation grants, endowments, memorials, and annual individual giving. These funds provide for needs not met by public funds and tuition revenue. For more information, contact the Maricopa Community College District Development Office at (480) 731-8400.

North Central Association

Chandler-Gilbert Community College is accredited by The Higher Learning Commission and is a member of the North Central Association, 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504; (800) 621-7440.

Advisory Committees

Advisory groups have proven invaluable in directing the college's future. The President's Community Advisory Council and Academic Program Advisory Councils have provided input into educational program development and improvement of the college.

Academic Program Advisory Councils

Academic Program Advisory Councils provide assistance to several CGCC academic divisions by taking a leadership role in the design of programs to prepare students for entry-level positions and for transfer into four-year college degree programs. Other activities include projecting labor market demands, recommending learning activities, advocating programs, recommending equipment purchases and donations, and identifying job-specific skills and knowledge that are consistent with the needs of local business and industry.

- Automated Manufacturing Systems Advisory Council
- Aviation Advisory Council
- Business Advisory Council
- Computer Graphic Design Advisory Council
- Crime and Intelligence Analysis Advisory Council
- Developmental Disabilities Advisory Council
- Dietetic Technician Advisory Council
- Information Technology Institute Advisory Council
- Microcomputer Applications Advisory Council

Contact the Associate Dean of Business and Industry at (480) 732-7016 for more information.

Achievement in Mathematics, Engineering, and Science Student Advisory Committee

CGCC and local school districts have formed an Achievement in Mathematics, Engineering, and Science (AIMES) Student Advisory Committee "to improve the quality of, participation in and coordination of the programs and services for under-represented populations in math and science education." Acting as a steering committee for the AIMES program, the advisory committee has identified activities such as staff development, student tracking, program articulation, student recruitment, joint planning, information exchange, and coordination of programs and calendars. Call the AIMES Coordinator (480) 732-7157 for more information.

President's Community Advisory Council

Community involvement has been a cornerstone of CGCC since before the college offered its first class. The evolution of ideas and visions that became the CGCC philosophy of education and community service are the result of continuous dialogue with business, industry, and community leaders. In 1983, leaders in Chandler and Gilbert formed the Southeast Valley Task Force to support the new campus, and a successful bond election in 1984 provided funds to begin construction of CGCC. Members of that original task force and other community, education, and business leaders formed the initial President's Community Advisory Council (PCAC).

Over 30 members of the Council continue to meet on a regular basis with CGCC administration, faculty, and staff to assist the college in identifying needs and establishing programs. In addition, three subcommittees have aided the college in Curriculum Development, Capital Development, and Institutional Finance and Scholarship. In 1994, they supported the bond election for capital development of the CGCC campus. Contact the President's Office at (480) 732-7010 for more information.

Sun Lakes Advisory Board

The Sun Lakes Advisory Board was formed in February of 1995 to provide groundwork for the development of the Sun Lakes Education Center. Board membership is comprised of residents from the Sun Lakes communities, a District Governing Board member, and employees of CGCC including administrators, faculty, and staff. The Board meets during the academic year. Call (480) 857-5500 for more information.

Educational Partnerships

CGCC participates in a number of special partnerships and collaborative projects to serve our students and the community.

Achievement in Mathematics, Engineering, and Science

The Achievement in Mathematics, Engineering, and Science (AIMES) program is designed to increase opportunities for under-represented populations in math, engineering, science, and technology. Students enter the program by taking the AIMES class and science and math courses at Gilbert, Highland, Mesquite, and Hamilton high schools. Students are provided with career awareness, advisement, training, and enrichment activities designed to

enable them to acquire the academic background needed to major in math, engineering, science, or technology-related fields. College scholarships to CGCC are provided for qualified students. For more information on the AIMES program, call the AIMES Coordinator at (480) 732-7157.

Achieving a College Education Plus

The CGCC Achieving a College Education (ACE) Plus program is a scholarship-based, early-outreach college preparation program for high school students. The program reaches out to students who are members of an underrepresented group, financially disadvantaged, first-generation college students, and those who may come from a one-parent household. The Plus part of the program stands for Program for Learning Universal Skills and focuses on academic skills in the areas of English, reading, and mathematics. Call (480) 732-7205 for more information about ACE Plus.

Arizona State University East

CGCC and Arizona State University (ASU) East have transformed the fact of co-location at the Williams Campus into the reality of co-operation through an innovative student-centered Partnership In Baccalaureate Education. The Partnership takes community college/university articulation to the next level, integrating the strengths of the two institutions and creating a wholly new option in baccalaureate education for students from Arizona and around the world. Williams Campus students may be jointly admitted to ASU East and CGCC. ASU East is offering baccalaureate degree programs in technology, agribusiness, elementary education, business administration, technical communication, nutrition, exercise science, and applied psychology. CGCC is providing the lower division general studies, general interest, and prerequisite courses that complete and enrich the baccalaureate programs. ASU East and CGCC faculty are working together to plan and coordinate curriculum and scheduling. The cooperation in curriculum extends to virtually every other functional area of the two institutions: library, computer center, classrooms, general facilities, housing, bookstore, food service, recreation, student life, financial aid, advising, registration, class schedule, campus security, and campus maintenance. Through the Partnership, students can complete entire baccalaureate programs at the Williams Campus, either as commuter or residential students, as if it were a single institution.

The Partnership in Baccalaureate Education at the Williams Campus provides an innovative and powerful model for the development of new campuses

nationwide to meet the growing need for comprehensive post secondary programs and a broader range of points of entry than universities or community colleges have been able to provide separately. For more information about the Partnership In Baccalaureate Education, call the Dean of Instruction at (480) 732-7012.

Chandler Regional Hospital

CGCC had the opportunity to partner with Chandler Regional Hospital (East Valley Regional Health System, also known as Catholic Healthcare West) to collaborate in the development of the Sun Lakes Health Center campus, a 9.5 acre parcel located on the northeast corner of Riggs and Alma School Roads, and includes the CGCC Sun Lakes Education Center (SLEC). SLEC is a facility developed for the primary purpose of providing credit and non-credit classes to meet the needs of senior adults and became fully operational in the fall of 1997. For more information, call the Director of SLEC at (480) 857-5505.

East Valley Think Tank

The East Valley Think Tank, a consortium of educational institutions representing students from kindergarten through the postgraduate level, was created to develop collaborative educational projects to serve students in the East Valley. Think Tank members are CGCC, Mesa Community College, Arizona State University East, and school districts in Chandler, Gilbert, Queen Creek, Kyrene, Mesa, Tempe, and Apache Junction. Initial projects include programs for vocational and occupational education, teacher and aide development, and foreign language development as well as an alternative campus for at-risk students. Contact the President's Office at (480) 732-7010 for more information.

Microsoft Corporation

The Maricopa Community College District (MCCD) was selected by Microsoft Corporation to provide faculty training on the latest technology to secondary and post secondary educational institutions in Arizona, New Mexico, Nevada, and Utah. Chandler-Gilbert Community College has been selected to represent MCCD as the Microsoft IT Academy Southwest Regional Training Center. CGCC is one of thirteen regional centers in the United States that will provide direct support and guidance to all participating IT Academy faculty and staff. The overall goal of the program is to help schools deliver high quality training that directly addresses the information technology workforce shortage.

San Tan Academy

In 1989 Chandler Unified School District and Chandler-Gilbert Community College created a partnership to support the needs of at-risk students in grades 9 through 12.

The San Tan Academy is an alternative high school located on the CGCC campus serving the needs of at-risk high school students. The Chandler School District provides the instructor for this program. Students can earn Chandler High School diplomas or General Equivalency Diplomas (GED). Students can also take college classes as part of their programs.

Call (480) 732-7118 for admission or general program information.

University of North Dakota

CGCC and the University of North Dakota have signed an agreement establishing a Joint Flight Training Program at the Williams Campus. Since the University of North Dakota is an internationally recognized leader in aviation education, this partnership is a tremendous opportunity for CGCC students desiring a career in the aviation industry.

Community Events

CGCC has established a number of annual events and activities open to students and the community. Some of these include Into the Streets, Adopt-A-Family, the Spring Noche de Fiesta Dance, the Desert Rose Fall Festival, Alcohol and Drug Awareness Week, Black History Month, the Generations Prom, the San Tan Arts Festival, Wellness Week, Library Week, Cultural Awareness Week, and Cinco de Mayo.

Desert Rose Fall Festival

During a beautiful autumn Saturday night, CGCC sponsors the Desert Rose Fall Festival outdoors. This popular community event draws the entire family with entertainment, live music, dancing, fun rides, food booths, games, prizes, and much more. The "Rose" was created by students in 1989 as a fundraiser for the Adopt-A-Family Program and continues to be a student project. Contact the Office of Student Life at (480) 732-7150 for more information.

San Tan Arts Festival

Each spring, CGCC presents the San Tan Arts Festival at the Pecos Campus. The festival features three days of arts and crafts booths and performances as well as master classes and workshops taught by local and regional artists. The entire festival is open to the public.

School and Community Relations

CGCC works closely with local public, private, and charter schools as well as a variety of community agencies to provide information and presentations about CGCC.

Enrollment services are provided to all school-age students who request assistance with admissions, recruitment, advisement, assessment, and orientation. Call the CGCC Recruitment Office at (480) 732-7391 or the Dean of Students Office at (480) 732-7322 for assistance.

Maricopa Community Colleges

Chandler-Gilbert Community College

2626 East Pecos Road Chandler, AZ 85225-2499 (480) 732-7000

Pecos Campus

2626 East Pecos Road Chandler, AZ 85225-2499 (480) 732-7000

Sun Lakes Education Center

25105 South Alma School Road Sun Lakes, AZ 85248-7158 (480) 857-5500

Williams Campus

7360 East Tahoe Avenue Mesa, AZ 85212-0908 (480) 988-8000

District Support Services Center

2411 West 14th Street Tempe, AZ 85281-6942 (480) 731-8000

Estrella Mountain Community College

3000 North Dysart Road Avondale, AZ 85323-1000 (623) 935-8000

Gateway Community College

108 North 40th Street Phoenix, AZ 85034-1795 (602) 286-8000

Glendale Community College

6000 West Olive Avenue Glendale, AZ 85302-3090 (623) 845-3000

Mesa Community College

1833 West Southern Avenue Mesa, AZ 85202-4868 (480) 461-7000

Paradise Valley Community College

18401 North 32nd Street Phoenix, AZ 85032-1200 (602) 787-6500

Phoenix College

1202 West Thomas Road Phoenix, AZ 85013-4234 (602) 285-7800

Rio Salado College

2323 West 14th Street Tempe, AZ 85281-6950 (480) 517-8000

Scottsdale Community College

9000 East Chaparral Road Scottsdale, AZ 85256-2626 (480) 423-6000

South Mountain Community College

7050 South 24th Street Phoenix, AZ 85042-5806 (602) 243-8000



Maricopa Community College Policies



Maricopa County Community College District

General Statement (AR 2.4.1)

The Maricopa Community Colleges are dedicated to providing a healthy, comfortable and educationally productive environment for students, employees and visitors.

Nondiscrimination Policy (AR 2.4.2)

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 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 (AR 2.4.3)

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 conformation with the Vietnam Era Veterans Readjustment Assistance Act of 1974, the Veterans Employment Opportunities Act of 1998, and the implementing regulations, 41 CFR 60-250(k), Maricopa County Community College District will not discriminate, or tolerate discrimination, against any applicant or employee because he or she is a special disabled veteran or Vietnam era veteran in regard to any position for which the known applicant or employee is qualified. Maricopa agrees to take affirmative action to employ, advance in employment, and otherwise treat known qualified special disabled veterans and Vietnam era veterans without discrimination based upon their disability or veteran status in all human resources section and decision practices, such as the following: advertising, benefits, compensation, discipline (including probation, suspension, and/or termination for cause or layoff), employee facilities, performance evaluation, recruitment, social/recreational programs, and training. Maricopa will continue to administer these practices without regard to race, color, religion, gender, sexual orientation, national origin, age, disability, or veteran status. Additionally, Maricopa agrees to post all suitable job openings at the local office of the State employment service where the job opening occurs. This includes full-time, temporary greater than 3 days' duration, and part-time employment. Finally, all applicants, employees are protected from coercion, intimidation, interference, or discrimination for filing a complaint or assisting in an investigation under the Act.

Notice of Americans with Disabilities Act (ADA)/Section 504 of the Rehabilitation Act/Title IX Coordinator

ADA/504/Title IX Coordinator, Disability Resources and Services, Chandler-Gilbert Community College, 2626 East Pecos Road, Chandler, AZ 85225-2499; (480) 732-7309. Under the ADA and Section 504, the District and its colleges recognize the obligation to provide overall program accessibility throughout its locations for persons with disabilities. The designated ADA/504/Title IX Coordinator at each college will provide information as to the existence and location of services, activities and facilities that are accessible to and usable by persons with disabilities. Requests

for accommodation should be addressed to the coordinator. Likewise, under Title IX, there is an obligation to provide services and program accessibility in a gender-neutral manner.

Students with disabilities may request catalog information in an alternative format from the college ADA/504 Coordinator.

Póliza de No Descriminación

Es la póliza de los Colegios Comunitarios del Condado de Maricopa (The Maricopa Community Colleges) que consisten del Centro de Apoyo del Distrito, los colegios comunitarios de Chandler-Gilbert, Estrella Mountain, Gateway, Glendale, Mesa, Paradise Valley, Phoenix, Rio Salado, Scottsdale, South Mountain y el Centro de Capacitación de Maricopa, proveer igualdad en las oportunidades de empleo mediante un programa continuo positivo. Esto significa que Maricopa no descriminará o tolerará descriminación en contra de ningún aplicante o empleado debido a su raza, color, religión, sexo, orientación sexual, nacionalidad, edad, incapacitación o por ser veterano incapacitado. Asi mismo, es la póliza de los Colegios Comunitarios proveer para cada aplicante y empleado un ambiente libre de acoso sexual como también de acoso intimidación referente a raza, color, religión, sexo, orientación sexual, nacionalidad, edad o estado de veterano de cualquier individuo.

Esta póliza de no descriminación cubre todos los aspectos de contratación del empleado, ingreso, acceso a, y tratamiento de alumnos en los Colegios Comunitarios de Maricopa los cuáles incluyen también programas de educación vocacional. Esta póliza también prohibe descriminación en base de orientación sexual en la admisión y tratamiento de estudiantes, en sus programas y actividades y en la contratación, tratamiento, promoción/ascensos, evaluación y despido de empleados.

Declaración de Igualdad de Oportunidad

Es la póliza de los Colegios Comunitarios del Condado de Maricopa proveer igualdad en las oportunidades de empleo mediante un programa continuo positivo. Esto significa que Maricopa no descriminará o 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

Póliza y Declaración de Acción Afirmativa para Individuos con Incapacidades

De acuerdo a lo que provee la Sección 503 de la Ley de Rehabilitación de 1973, como enmienda, y las leyes de implementación, 41 CFR 60-741.5 (a), declara que el Distrito de Colegios Comunitarios de Maricopa no descriminarán o tolerarán descriminación en contra ningún aplicante o empleado debido a su desabilidad/incapacitación fisica o mental referente a cualquier posición para la cuál el aplicante o empleado ha calificado. Maricopa promete tomar acción afirmativa para emplear, dar ascenso en empleo y tratar a dichos individuos con incapacidades sin hacer incapie en sus incapacidades físicas o mentales en la selección de recursos humanos y prácticas decisivas como son las siguientes: anuncios, beneficios, compensación, disciplina (incluyendo 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 entrenamiento. 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. Asi mismo, todo los aplicantes y empleados estan protegidos en contra de coacción, intimidación, interferencia o descriminación por quejas o por ayudar en una investigación cubierta bajo éste Acto.

Declaración de Póliza de Acción Afirmativa para Otros Veteranos Elegibles, Veteranos con Incapacitación Especial y Veteranos de la Era Vietnamita

Conforme a la ley de Reajuste y Asistencia para los Veteranos de la Era Vietnamita de 1974, acta de Oportunidades de Empleo para Veteranos de 1998 y reglamentos de implementación, 41 CFR 60-250(k), el Distrito de Colegios Comunitarios del Condado de Maricopa no 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 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 descriminar 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 perlodo de prueba, suspensión, y/o despido por causa o paro forzoso), facilidades para empleados, evaluación de trabajo, recrutamiento, programas sociales/recreacionales y entrenamiento. Maricopa continuará llevando a cabo estas prácticas sin descriminar 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 descriminación 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

ADA/504/Coordinador del Título IX, Disability Resources and Services, Chandler-Gilbert Community College, 2626 East Pecos Road, Chandler, AZ 85225-2499; (480) 732-7309. 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 segun el género.

Estudiantes incapacitados pueden solicitar información de catálogo en una forma diferente por medio del Coordinador designado por ADA/504 en cada colegio.

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.

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 and 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 problemsolving, 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.

General Regulation (AR 2.1)

A. 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 and regulations.

Note: The regulations that comprise the student section contain language that appears in various sources such as the Catalog Common Pages and the Student Handbook. All areas became Administrative Regulations with the 1996 adoption of the Governance Model. Changes are made annually either through the Administrative Regulations approval process, or by Board approval for those items that fall under its statutory duty, such as Tuition and Fees. In an effort

to prevent duplication, topics in this section may be incorporated by reference, as they are featured in other areas of the manual and are noted accordingly.

The Maricopa Community Colleges Vision, Mission and Values that are featured in the Common Pages are a part of approve Governing Board Policy and are located in the policy section of the manual. As such, the following statement related to Outcomes Assessment that appears in the Common Pages is presented here as a general statement.

B. 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 Maricopa Community Colleges accomplish 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.

Admission/Registration

Admission Policy (AR 2.2.1)

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.

Admission 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:

- Is a graduate of a high school, which is accredited by a regional accrediting association as defined by the United States Office of Education or approved by a State Department of Education or other appropriate state educational agency.
- 2. Has a high school certificate of equivalency.
- 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

 Admission to the community colleges in Arizona shall be granted to any student who is under age 18 and who achieves the following test scores:

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

C. Admission of Students in Special Status

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

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

- 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
- 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. Departments may have additional requirements to register for a course. (Signature of parent or guardian is required for students under 18), or
- 3. Is a participant in a special program sponsored by the admitting college.

The colleges reserve the right to enroll students in courses. The final decision for admission to any class for students admitted under "special" status will be determined by the designated college administrator in consultation with the department chairperson.

D. Specialized Vocational/Training Program

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

E. Admission of F-1 Nonimmigrant Students

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

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

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

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.) If the

International Language Testing System (IELTS) is used to satisfy this requirement, an IELTS overall Band Score of 5.5 or better is required, and a minimum IELTS individual Band Score of 5.0 on each module is recommended. The dean or director of admission and records of the college may accept other proof of English language proficiency for admission purposes, such as the ASSET test, COMPASS or CELSA tests.

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

TOEFL Services P.O. Box 6151 Princeton, NJ 08543-6151

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);
- b. A minimum TOEFL score of 400 (on the traditional TOEFL) or 97 (on the computer-based test);
- c. An original letter of recommendation from a teacher, school principal or headmaster/ headmistress, or the director of an English language institute attesting to the applicant's proficiency at the intermediate level;
- d. 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
 - 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.
- Foreign students under certain types of visas may need special permission to enroll and should contact the appropriate college official.

3. Financial Support

Evidence of financial support will be required prior to issuance of the I-20 form. The colleges have no scholarship or financial aid 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: $$6,000^{1}$ Living Expenses: $10,400^{2}$ Books: 800^{3} Health Insurance: 408^{4} Total $$17,608^{5}$

Note: The estimates for the expenses of the dependents of F-1 students (spouse and dependent children) may vary from college to college depending on the cost of living in each community. Therefore, each college should set its own estimate for dependent's expenses. However, the cost of Maricopa health insurance (\$1382 per year for a spouse and \$782 per year for each dependent child) should be added to the general cost of living and personal expenses.

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 the Maricopa Community Colleges is administered by the Renaissance Agencies and underwritten by Guarantee Trust Life Insurance Company. For more information contact the college office of admissions and records or designated international student office.

Footnotes:

- (1) Based on 2002-2003 tuition and fee schedule with enrollment in 28-32 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 2002-2003 insurance premium for the mandatory Maricopa Community Colleges' International Student Health Plan.

(5) Applicants must provide evidence of this minimum amount of financial support before an I-20 is issued.

Admission Information (AR 2.2.2)

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.

A. 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.
- 3. Unclassified A student who has earned an associate degree or higher.

B. 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.

C. 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 may be admitted on academic probation.

D. Residency

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

- Maricopa County resident
- Out-of-County resident

- Out-of-State resident (including F-1 nonimmigrant 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

- 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.

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 fulltime 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:
 - 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.
 - 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.
 - He or she is an employee of a school district in this state and is under contract to teach on a full-time basis, or is employed as a full-time non-certified classroom aide, at a school within that school district. For purposes of this paragraph, he or she is eligible for classification as an in-state student only for courses necessary to complete the requirements for certification by the state board of education to teach in a school district in this state. No member of his or her family is eligible for classification as an in-state student if he or she is eligible for classification as an in-state student pursuant to this paragraph.
- 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 instate student. The student does not lose instate student classification while in

- continuous attendance toward the degree for which he or she is currently enrolled.
- 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 instate 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 instate student classification if the person has met all of the following requirements:
 - 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.
 - 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 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:
 - 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:
 - An employee of an employer which transferred the alien to this state for employment purposes, or
 - b) The spouse of such an employee.
 - 4. Qualifies as an in-state refugee student by virtue of having been granted refugee status in accordance with all applicable laws of the United States and having met all other requirements for domicile in this state.
- B. In establishing domicile, the alien must not hold a visa that prohibits establishing domicile in this state. After meeting other residency requirements, students holding valid, unexpired visas in the following categories may be classified as in-state students:
 - A Foreign Government Official
 - E Treaty Trader
 - G Principal Resident Representative of Recognized Foreign Member Government to International Staff
 - H Temporary Worker in Professional Nursing/Specialty/Nonagricultural Occupations
 - I Representative of Foreign Information Media
 - K Fiancé or Child of Fiancé of U.S. Citizen

- L Intracompany Transferee
- N Parent or Child Accorded Special Immigrant Status
- O Workers of "Extraordinary" Ability in Sciences, Arts, Education, Business, or Athletics
- P "Internationally Recognized" Entertainers & Athletes, "Reciprocal Exchange" or "Culturally Unique" Artists & Entertainers
- Q Cultural Exchange Visitors
- R Religious Workers
- V Spouses and Dependent Children of Lawful Permanent Residents
- I-688 Employment Authorization
- C. Students who hold visas as listed above, or who were issued a visa of a type other than those of the foregoing categories but have been out of status for at least one year, may establish domicile by complying with paragraphs A1, A2 or A3 above.

In the event a student who is not a United States citizen intends to establish domicile under paragraphs A.2.a. (dependent of parent - parent domiciled in Arizona), the student's parent, in order to establish domicile, must hold a valid, unexpired visa in one of the categories listed in paragraph B. above. To be eligible to establish domicile, the parent must:

- 1. hold a valid visa of a type as listed in paragraph B., or
- 2. have never held a visa, or
- 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 instate 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.

Proof of Residency

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

A. In-State Residency

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

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

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

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

Other Admission Information (AR 2.2.3)

A. 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. (Also see Withdrawal - Appendix G.)

B. 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, for the purpose of 2.2.3 B, is granted to an individual admitted to the college who is a high school graduate or has a GED certificate. A student without a high school diploma or GED certification and beyond the age of compulsory high school attendance may be a regular status student if the student has been assessed to benefit from college instruction by receiving qualifying scores on approved assessment instruments. All regular status students must be pursuing a degree/certificate or be in an eligible program.

"REGULAR WITH PROVISIONAL REQUIREMENTS" status, for the purpose of 2.2.3 B, 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, for the purpose of 2.2.3 B, 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.

C. 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.

D. 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 (AR 2.2.7).

Credit for Prior Learning (AR 2.2.4)

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, is 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. Exceptions may be granted at some MCCCD colleges for specifically approved programs.

Credit awarded for prior learning does not count as hours in residence for graduation requirements. Exceptions may be granted at some MCCD 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 Office of Admissions and Records.

A. 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.

1. <u>Educational Experiences in the Armed Services</u>

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:

- training parallels a discipline area offered through the Maricopa Community Colleges, and
- 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.

2. <u>College Credit Recommendation Service</u> (CREDIT)

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:

- a. training parallels a discipline area offered through the Maricopa Community Colleges, and
- credit meets a program requirement or is used as elective credit.
- 3. <u>Departmental Credit By Evaluation</u> 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 for appropriate fee. Fees are not refundable if a student fails to obtain credit.

Students may not request:

- a. the evaluation of a course a second time:
- the evaluation of a course while currently enrolled in the course;
- to establish credit in a previously completed course; and
- 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.

B. College-Level Equivalency Examinations

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

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

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

Advanced Placement Examinations
 Students who have taken an advanced placement course of the College Entrance Examination Board (CEEB) in their secondary school and who have taken an

Advanced Placement Examination of the CEEB may receive course credit with a score of 3, 4 or 5. Scores must be received directly from CEEB before credit is awarded.

English AP Recommendation:

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

<u>Exam</u>	<u>Score</u>
English-Literature and Composition	4 or 5
Credit Hours/Equivalency	
6 credit hrs/ENG101, ENH 110	
eligible for Honors ENG 102	

Math AP Recommendation:

Exam	Score
Math-Calculus AB	$\overline{3, 4 \text{ or } 5}$
Credit for Course	
MAT 220 or MAT 221	

<u>Exam</u>	<u>Score</u>
Math-Calculus BC	3
Credit for Course	
MAT 220 or MAT 221	

<u>Exam</u>	<u>Score</u>
Math-Calculus BC	4 or 5
Credit for Course	
MAT 220 or MAT 221, and	
MAT 230 or MAT 231 upon	
completion of MAT 241	

<u>Exam</u>	Score
Computer Science A and AB	4 or 5
Credit for Course	
CSC 100	

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

Credit 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.

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:

Credit earned through CLEP examination for French, German, and Spanish meets the language proficiency requirements of the Maricopa Community Colleges.

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

Course	Spanish	French	German	Credit
101	40-49	39-48	39-45	4 (101)
102	50-54	49-53	46-50	8 (101,
				102)
201	55-61	54-62	51-59	12 (101,
			1	.02, 201)
202	62-80	63-80	60-80	16 (101,
			1	102, 201,
				202)

At the discretion of the individual college, an oral exam at the 202 level may be administered.

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.

4. <u>American College Testing Proficiency</u> <u>Examination Program</u>

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

5. 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 for appropriate fees.

Students may not request:

- a. to challenge a course a second time;
- to challenge a course while currently enrolled in the course;
- to establish credit in a previously completed course; and
- d. 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.

College Level Examination Program (CLEP) Table

Examination	MCCCD		
General	Score	Sem. Hrs.	Equivalency
English Composition	500 on 1978 version	3	With essay qualifies for ENG 101
Humanitie	500	6	Elective Czedit
Mathematics	500	3	MAT122
Natural Sciences	500	- 8	Elective Credit*
Social Sciences & History	500	6	Elective Credit
9ubjed:	A. Mariana B		(f)
American Government	ACE Score		PO\$110
American History - Early Colonisation to 1877	ACE Score		HI\$103
American History - 1865 to the Present	ACE Score	3	HI\$104
American Literature	ACE Score	6	ENH241, 242
Anaheis & Interpretation of Lit	ACE Score	3	Elective Credit
Calculus with Elem Functions	ACE Score	2.7	MAT221
College Algebra (1993) (replace: College Algebra [1979])	ACE Score	3	MAT152
College Algebra and Trigonometry	ACE Score	3	MAT152
College French	39-48	4	FRE101
College French	49-53	- 8	FRE101, 102
College French	54-62		FRE101, 102, 201
College French	63-80	16	FRE101, 102, 201, 202
College German	39.45	4	GER101
College German	46-50	8	GER101, 102
College German	51-59	12	GER101, 102, 201
College German	60-80	16	GER101, 102, 201, 202
College Spanish	4049	4	SPA101
College Spanish	50-54	8	SPA101, 102
College Spanish	55-61	12	SPA101, 102, 201
College Spanish	62-80	16	SPA101, 102, 201, 202
Educational Psychology	ACE Score	3	EDU Elective
English Literature	ACE Score	3	Elective Credit
Freshman College Composition (replaces College Composition & Freshman English)	ACE Score	3	With Essay ENG 101
General Biology	ACE Score	8	BIO Elective Credic
General Chemistry	ACE Score	9	CHM Elective Credit
Human Growth & Development	ACE Score	Ó	No Czedit
Information Systems & Computer Applications	ACE Score		CIS Elective Credit
In too to Educational Psychology	ACE Score		EDU Elective
Introductory Accounting	ACE Score		ACC Elective Credit
Introductory Business Law	ACE Score	3	GBS Elective Credit
IntroductoryPsychology	ACE Score	3	PSY101
Introductory Sociology	ACE Score	3	SOC101
Principles of Macrosconomics (replaces Introductory Macrosconomics)	ACE Score	3	ECN111
Principles to Management	ACE Score	3	MGT Elective Credit
Principles of Marketing	ACE Score	3	MKT271
Principles of Microsconomics	110000000000000000000000000000000000000	- 12.5	3 2 3 3 3 5 W.
(replaces Introductory Microeconomics)	ACE Score	3	ECNI12
Trigonometry	ACE Score	· · · · · ·	MAT182
Western Civilisation - Ancient Near East to 1648	ACE Score		HI\$100, 101
Western Civilisation - 1648 to the Present	ACE Score	3	HI\$102

[&]quot;The general studies requirement in natural sciences (SQ &t SG) and Literary and Critical Inquiry (L) are not satisfied by CLEP.

Advanced Placement Table

Examination	Score	MCCCD	Sem. Hirs
Art - History		ARH101, 102	6
	3	ARH101 or 102	3
Art-Studio-Dawing	5	ART111, 112	6
	4	ART111	3
Art-Studio-General	5	ART111, 112	6
	4	ART112	3
Biology	5 cr 4	BIO181, 182	8
	3	BIO 100 or equivalent	4
Chemistry		CHM152/152LL & CHM154/154LL	9
	3	CHM 151/151LL	4
Computer Science A	5 cr 4	C\$C100	3
Computer Science AB	5 cr 4	C\$C100	3
Economics - Introductory Macrosconomics	5 cr 4	ECN111	3
Economics - Introductory Microsconomics	5 cr 4	ECN112	3
English - Language & Composition	5 cr 4	ENG100AA, AC, AD & ENG101	3
English - Literature & Composition		ENG101 & ENH110	6
Enstironmental Science		No aredit	3
French - Language	5.4. or 3	FRE101, 102, 201, 202	16
Franch - Literature		FRE101, 102, 201, 202	16
German - Language		GER101, 102, 201, 202	16
German - Literature	5.4. or 3	GER101, 102, 201, 202	16
History - American		HI\$103, 104	6
History - European		HI\$101, 102	6
Latin-Language		LAT101, 102, 201, 202	16
	4	LAT101, 102, 201	12
		LAT101, 102	8
Mathematics - Calculus AB		MAT220 orMAT221	5
Mathematics - Calculus BC	5 4	MAT220 or MAT221 and MAT230 or MAT231 upon completion of MAT241	8 to 10
		MAT220 or MAT221	- 5
Music	5 cr 4	MTC105	3
Physics B		PHY111, 112	- 8
		PHYIII	4
Physics C - Electricity & Magnetism		PHY116 - with calculus and laboratory course work	5
Physics C - Electricity & Magnetism	5 cr 4	PHY112 - with aboutory course work	4
Physics C - Mechanics		PHY115 - with calculus and laboratory course work	4
Physics C - Mechanics	5 cr 4	PHY111-with laboratory course work	4
Political Science - American Government		PO\$110	3
Political Science - Comparative Government and Politics	0.00	PO\$140	3
Psychology	5 cr 4	PSY101	3
Spanish - Language		SPA101, 102, 201, 202	16
Spanish - Literature	5.4 or 3	\$PA101, 102, 201, 202	16
Statistics		MATI67	3

International Baccalaureate Diploma/Certificate Credit Table

Students who present an International Baccalaureate Diploma/Certificate may qualify for college credit. Maricopa Community Colleges grant credit for college-level courses only. A grade of 5 qualifies a student to receive credit for one introductory course. No credit is awarded for English B (English as a Second Language). Credit is awarded according to the "International Baccalaureate Diploma/Certificate Credit" table.

Bram Ination	Store	Sem. Hrs.	Equitalency
C. ITS CO.	7.6.015	6	åKT111, 112
kn/Deign	4	3	åRT112
Distant	7.6.015	8	RIO 181, 182
Biology	4	4	BIO 181
Altredies.	7.6.015	9	CHM151, 152
Chemistry	4	4	CHM151
TERROTERION S	7.6.ot5	6	ECN111, 112
Economics	4	3	ECN111
English A	7.6,015	6	ENG 101. ENG 100ÅB, ÅC, ÅD
	4	3	ENG 100ÅB, ÅC, ÅD
English B	No Credit	-	None
Foteign Language A	7.6.015	8	Foreign Lang 101, 102
ot B*	4	4	Foreign Lang 101
TT: A	7.6.015	6	HIS109, 104
History - American	4	3	HIS103
TT: To	7.6.015	6	HIS101, 102
History - European	4	3	HIS101
Mathematics	7.6.5. ot 4	4	MXT221
Dharine	7.6.015	8	MHY111, 112
Physics	4	4	JHY111

C. Health Care Integrated Educational System (HCIES) Credit for Prior Learning

National/Regional Credential Recognition

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

<u>Credit by Examination and Credit by Skills</u> <u>Demonstration Assessment</u>

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 for appropriate fee. Fees are not refundable if a student fails to obtain credit.

Students may not request:

- a. to challenge a course a second time;
- to challenge a course while currently enrolled in the course;
- c. to establish credit in a previously completed course; or
- d. 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.



D. 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 C (2.0 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.

E. 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.

F. Transfer Articulation Guidelines (Appendix B)

<u>Transfer Articulation with Secondary</u> <u>Institutions, the Maricopa Skills Center, and the</u> <u>Southwest Skill Center</u>

Students who have participated in programs articulated with Maricopa Community Colleges District 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 MCCD, 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 credits on their academic record.

<u>Transfer Articulation from Arizona Public</u> <u>Community College Districts and Universities</u> into the Maricopa Community Colleges

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 provided the courses were completed with a grade of C or better. Acceptance of courses other than general education requirements is determined by individual Maricopa Community Colleges.

A student transcript with the completed block of courses included in the Arizona General Education Curriculum (AGEC-A, AGEC-B, or AGEC-S) will transfer as a block and fulfill the requirements for the corresponding AGEC at the Maricopa Community Colleges.

Maricopa Community Colleges Transfer Associate Degrees

The Maricopa Community Colleges offers three transfer Associate degrees: Associate in Arts (AA), Associate in Business (ABUS), and Associate in Science (AS). Each degree articulates with specific majors offered by Arizona's public universities. In addition, the degrees are recognized and transfer based on articulation agreements with several other baccalaureate degree-granting institutions. The three transfer Associate degrees transfer as a "block" and include groups or blocks of courses, e.g. the Arizona General Education Curriculum (AGEC), and the Common Lower-Division Courses. Completed blocks are treated as whole; the components are not examined separately to determine transferability. All credits are accepted and applied toward the designated/appropriate baccalaureate degree.

The Maricopa Community Colleges also offer Associate in Transfer Partnership (ATP) Degrees for specific majors at identified public and universities. Maricopa's Associate degrees are accessible on the web at http://www.dist.maricopa.edu/eddev/curric/program.html. Click on Program/Sorting/Reporting.

<u>Transfer Articulation from the Maricopa</u> <u>Community Colleges to Baccalaureate Degree-</u> <u>Granting Institutions</u>

The Maricopa Community Colleges have transfer articulation agreements 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. Maricopa Community Colleges 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 enter into an articulation agreement. Additionally, the articulation agreements require that all Associate Degrees awarded by Maricopa will transfer to participating institutions as a block. As mentioned above, these blocks transfer as a whole.

<u>Transfer Options for Maricopa Community</u> <u>Colleges Associate in Applied Science Degrees</u>

The Maricopa Community Colleges Associate in Applied Science (AAS) degrees are recommended for students who want to gain a depth of technical expertise leading to employment through the completion of an occupational program. Some students may want to pursue a baccalaureate degree as well. The AAS degrees transfer as a "block" to the Bachelor of Applied Science at Arizona State University (East and West), and Northern Arizona University.

Course Acceptability and Applicability

Transfer articulation to Arizona's public baccalaureate degree-granting institutions is communicated in terms of "acceptability" and "applicability" of community college courses and programs.

To determine "acceptability" of Maricopa Community Colleges courses, refer to the Course Equivalency Guide (CEG) on the Arizona Courses Applicability System (AZCAS). The AZCAS CEG is online at 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 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.

To determine "applicability" of Maricopa Community Colleges courses and transfer associate degrees to university-specific degree requirements, refer to the Maricopa Community Colleges' Associate in Transfer Partnership degrees, the AZCAS Transfer Planning Aids, or the university transfer guides, described below.

University Transfer Guides

Each of Arizona's public universities have developed University Transfer Guides to show how Maricopa Community College courses apply to specific baccalaureate degree requirements. The transfer guides are useful both for students pursuing Associate in Transfer Partnership Degrees, as well as for students who want to transfer to Arizona's public universities to pursue degrees for which the Maricopa Community Colleges do not have Associate in Transfer Partnership Degrees. University Transfer Guides are accessible at the following web sites:

Arizona State University Main or Arizona State University East http://www.asu.edu/provost/articulation/

Arizona State University West http://www.west.asu.edu/gowest/

Northern Arizona University http://www.nau.edu/regis/transguide/ info.htm

University of Arizona http://w3.arizona.edu/~oncourse/tguides

<u>Arizona Course Applicability System</u> (AZCAS)Transfer Planning Guides

A student may enter community college or university coursework into AZCAS to create a Transfer Planning Guide. The guide evaluates progress toward completing a community college transfer certificate, transfer degree, and/or an Arizona public university degree and assists students in selecting additional course work that meets the academic program requirements. The transfer planning guides are accessible at the following web site: http://www.az.transfer.org/cas/.

Student Assessment and Course Placement (AR 2.2.7)

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.

A. 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.

B. 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.

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

- The student is taking a math course and has a college-level prerequisite on file that is more than five (5) years old.
- The student is taking a college course for which English, reading or math is a prerequisite, and such credit is more than five (5) years old.

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

- The student has earned an associate or higher degree.
- The student has earned college credits in English, reading, and math with a grade of C or higher, and such credit is no more than five (5) years old.
- The student demonstrates that s/he 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.

C. 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 any of the Maricopa Community Colleges.

D. 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 advisement to aid the student in selecting a course(s).

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

E. Waiver of Course Placement

If the student chooses to enroll in or remain in a course different than one recommended during assessment, the student will be asked to sign a waiver stating that he or she has received advisement and that the course selection is his or her decision, providing the student has met the prerequisites for the course. 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 and Records.

F. Implementation of Policy

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

- All colleges shall use the same assessment instruments.
- All colleges shall adhere to the same cut-off scores.
- The student shall be permitted no more than one re-test (after a 24-hour waiting period) per discipline each year (one year from date of student's original or re-test assessment at any ASSET/COMPASS assessment site).

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

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

G. Evaluation

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

Academic Advising (AR 2.2.6)

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 and online 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 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, work-shops, 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.
- be encouraged to use the technology which supports the academic advising process.

Registration (AR 2.2.8)

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.

Emissions Control Compliance (AR 2.4.6)

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.

Transcripts for Transfer (AR 2.3.10)

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). There is no charge for unofficial transcripts, or for official transcripts sent between Maricopa Community Colleges. See the fee schedule for charges for other official transcripts.

Tuition and Fees (AR 2.2.9)

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.

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

- 1. Maricopa County resident
- 2. Out-of-County resident
- 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.

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 under the Residency section of this publication.)

A. 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 Maricopa Community Colleges Governing Board. Enrollment is not complete until tuition and fees are paid.

B. Tuition and Fees Schedule (Appendix D)

(effective July 1, 2003 for Fall, Spring and Summer Sessions)

The following is a tuition and fees schedule for 2003-2004 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: \$38.50 plus Fees: \$12.50 \$51.00

2. County Resident - Audit Rate

- per credit hour Audit Fee Surcharge: \$25.00 plus General Tuition: \$38.50 plus Fees: \$12.50 \$76.00

3. Out-of-County Resident (7 & more

credit hours system-wide)
- per credit hour Out-of-County
Surcharge: \$161.00 (Applies only
to counties with no community
college) plus General Tuition: \$38.50
plus Fees: \$12.50 \$212.00

4. Out-of-State Resident* (including F1 Non-immigrants - 7 & more credit hours system-wide) - per credit hour Out-of-State Surcharge: \$165.00 plus General Tuition: \$38.50 plus Fees: \$12.50 \$216.00

5. Unclassified Student - Out-of-State, Out-of-County* (less than 7 credit

hours system-wide) - per credit hour Unclassified Student Surcharge: \$25.00 plus General Tuition: \$38.50 plus Fees: \$12.50 \$76.00

- 6. Out-of-State students participating in Western Undergraduate Exchange Program* (any number of credit hours) per credit hour WUE Out-of-State Surcharge: \$25.50 plus General Tuition: \$38.50 plus Fees: \$12.50 \$76.50
- 7. Courses offered out of Arizona, including distance learning, to non-resident out-of-state students**

 Total tuition per credit hour \$135.00

9. Skill Center Tuition Rates

Hourly Tuition: \$3.75

10. Credit by Examination & Credit by Evaluation

- per credit hour - excludes HCIES courses
Regular Rate: \$38.50
Contract Testing Rate: \$19.25

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

Apache, Greenlee, Santa Cruz.

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

- * According to Arizona Revised Statute, 15-1802F, "A person who is a member of an Indian tribe recognized by the US Department of the Interior whose reservation lies in this state and extends into another state and who is a resident of the reservation is entitled to classification as an in-state student." Therefore, unclassified and out-of-state surcharges do not apply to such students.
- ** According to ARS 15-1429, community college districts are excluded from counting as FTSE those students who reside out of the state but are taking an AZ community college district distance learning course or a classroom based credit course.



College Specific Fees: (not inclusive)

Aeronautics Fee (Chandler-Gilbert)
AET 205, 215, 225
AMT90.00
Aviation Industry Lab50.00
AVT
Electronics (Chandler-Gilbert)
ELE 286 - Intro to IC Devices \$167.00
Field Trips & Out-of-County/
Out-of-Country Tours (Special
assessment directly related to actual cost of
trip or tour.)
Food and Nutrition (Chandler-Gilbert)
FON 142 AB
PED Special Course Fee
Virtual Reality Training (Chandler-Gilbert)
VRT

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.

C. 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.
- 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.
- 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.

D. Discounted Fees and Waivers

Citizens 62 years of age and older shall be issued ID cards that allow them the privilege of attending events at no cost and that allow them to use the library facilities.

Tuition and fee waivers shall be funded through Auxiliary Fund Monies for college credit courses for the enrolled members of the Pima-Maricopa Indian Community who live on the Pima-Maricopa Reservation.

The Maricopa Community Colleges waives tuition and student activity fees for employees and their dependents, and for legislative mandated groups. Special fees and fees for Non-Credit/Special Interest Community Services courses are not waived.

Refund Policy (AR 2.2.10)

A. 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.) Beyond these deadlines there will be no refund.

Length of Term	Deadline for Notice	Amount of Refund of Enrollment and Course Fees*
Each Class	Any time prior to the day of the first class meeting	100%
13 or more weeks	Within seven (7) calendar days including the day of the first class meeting	100%
13 or more weeks	Within eight (8) to fourteen (14) calendar days including the day of the first class meet	50% ing

Continued on next page.

Length of Term	R En Deadline for	Amount of Refund of Enrollment and Course Fees*	
10 to 12 weeks	Within four (4) calendar days including the day of the first class meeting	100%	
3 to 9 weeks	Within three (3) calendar days including the day of the first class meeting	100%	
3 days to 2 weeks	No later than the day of the first class meeting	100%	
Less than 3 days	Prior to the day of the first class meeting	100%	

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

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

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

B. Canceled Classes

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

C. 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.

D. Refunds for Non-Credit Courses

Unless otherwise specified, students must drop the class prior to the first day to be eligible for a 100% refund for a non-credit course.

Student Financial Assistance (AR 2.2.11 & Appendix E)

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.

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/. Caution: Other websites may charge a fee. Each academic year, continuing students must reapply by completing a 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 college Office of Student Financial Aid.

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 college Office of Student Financial Aid.

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 college Office of Student Financial Aid.

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 2003-2004 academic year, academic progress will be evaluated on Spring 2003, Fall 2002, and Summer 2002).
- 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 V and VI.

II. Eligibility

- A. Students must meet the following criteria:
 - 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

Credits Attempted*	Min GPA
12-15	1.60
16-30	1.75
31-45	1.90
46 +	2.00

*for which grade points are computed.

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

III. Maximum Time Frame 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 Time Frame Eligibility.
- C. A student with a Bachelor's degree or higher will be considered to have exhausted Maximum Time Frame Eligibility. An exception to this rule occurs if the student is enrolled in a state-approved teacher certification program.
- D. A student may appeal as outlined in V.
- Reinstatement procedures as outlined in VI are not applicable to Maximum Time Frame 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.

- 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.
- Classes taken at other colleges will not be taken into consideration for reinstatement purposes.

D. It is the student's responsibility to notify the Office of Student Financial Aid when this condition has been met.

For more information, please contact the Office of Student Financial Aid.

Refunds and Repayments

In accordance with federal regulations (CFR 668.22), a student may be required to repay federal financial aid funds if they completely withdraw, are withdrawn, or fail to earn a passing grade from all classes during a semester. Further information is available at the college Office of Student Financial Aid. This could affect a student's ability to receive Financial Aid in the future at any school. For a student receiving Financial Aid, also see Appendix G for Withdrawal procedures.

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 college Office of Student Financial
Aid for more information.

Veterans Services (AR 2.9)

The Maricopa Community Colleges' veterans services offices act as liaisons with the Department of Veterans Affairs. Each program must be approved by the State of Arizona Department of Veterans' Services. Students may be eligible to receive educational benefits if they are registered in approved programs. Application forms, counseling, advisement and tutoring are available for students who are eligible for veteran's educational benefits. Students applying for veteran's educational benefits should allow eight to ten weeks before receiving benefits. The amount of benefits awarded is determined by the Department of Veterans Affairs, and is based on the number of credit hours or clock hours for which a student is enrolled.

Veteran's benefits available:

- Chapter 30 Montgomery GI Bill
- Chapter 31 Vocational Rehabilitation (separately served through the local VA office)
- Chapter 32 VEAP Program

- Chapter 35 Survivors and dependents of deceased/100% disabled veterans
- Chapter 1606 Montgomery GI Bill, Selected Reserve

It is the student's responsibility to notify the office that serves veterans at their campus regarding any change in enrollment, address, program of study, enrollment at another institution, or any other change that may impact their veteran's educational benefits.

Those students receiving benefits must follow the VA academic progress policy to continue to receive benefits.

Academic Progress Policy for Students Receiving Veteran's Educational Benefits

Credit Hours for Which Grade Points are Computed at Resident Maricopa Community College (A, B, C, D, F, and Y)

Minimum Grade Point Average Required

12-15	1.60
16-30	1.75
31-45	1.90
46 +	2.00

Department of Veterans Affairs regulations require that all persons using any type of veteran educational 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 (see above) will be placed on probation for a maximum of two (2) 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 through the approval of a written appeal. For appeal procedures, contact the office that serves veterans at your campus.

For additional details and information regarding veteran's educational benefits, contact the office that serves veterans at your campus.

Scholastic Standards

Academic Load (AR 2.3.1)

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

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

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

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

Students who are working, have considerable extracurricular 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).

Attendance (AR 2.3.2)

Only persons who are registered for a class at any of the Maricopa Community Colleges may attend that class.

Attendance requirements are determined by the course instructor. Students who do not meet the attendance requirement as determined by the course instructor may be withdrawn.

Students who fail to attend the first scheduled class meeting, or to contact the instructor regarding absence before the first scheduled class meeting may, at the option of the instructor, be withdrawn.

At the beginning of each course, each faculty member will provide students with written attendance requirements. It is the student's responsibility to consult with the instructor regarding official or unofficial absences. Absences begin to accumulate with the first scheduled class meeting.

Students bear the responsibility of notifying the Office of Admissions and Records when they discontinue studies in a course or at the college. Please refer to the Withdrawal Procedures.

A. Official Absences

Official absences are those which occur when students are involved in an official activity of the college (e.g., field trips, tournaments, athletic events) and present an official absence excuse form. Absences for such events shall not count against the number of absences allowed by an instructor or department. Students who must miss a class for an official reason must obtain an official absence verification card from the appropriate dean or associate dean and present it to the appropriate instructor(s) before the absence. Prior arrangements must be made with each instructor for make-up work. If prior arrangements have been made, the student will not be penalized.

Other official absences include jury duty and subpoenas. Appropriate documentation will be required. Prior arrangements must be made with each instructor for makeup work. If prior arrangements have been made, the student will not be penalized.

In the event of the death of an immediate family member, absences for periods of up to one week will not be counted against the number of absences allowed by an instructor or department. Students should contact instructor(s) as soon as possible to arrange for make-up work. Appropriate documentation will be required (for example, a copy of the obituary or funeral program). In specialized programs that require clinical rotations, this regulation may not apply.

B. 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.

Grading (AR 2.3.3)

A. Policy

It is the policy of the Maricopa Community Colleges that a grade will be assigned at the conclusion of the course.

Grade Key

B. Incomplete Grade

Students who are doing acceptable work may request an incomplete grade "I" if they are unable to complete the course requirements by the end of the term because of illness or other extenuating circumstances. If the request is approved by the instructor, he or she shall define, in a written contract, how the course will be completed. The contract will be filed with the Office of Admissions and Records.

Students must complete the requirements within the time period agreed to - maximum time allowed is seven (7) months from the last date of class in which the grade of incomplete was assigned. Students who do not complete the requirements within seven (7) months will have their grade recorded in accordance with the written contract. Students should NOT reregister for the course to complete the contract.

C. Repeating a Course/Improving a Grade

To improve a previously earned grade, students may repeat the course up to three times after the initial attempt to improve a grade. (A "W" or "Y" is not considered an attempt.) Students planning to enroll in a course for the third time should seek advisement prior to enrolling. All enrollments in a course will appear on the transcript and will be included in calculating the grade point average. The student may request in writing that the course(s) with the lower grade(s) be excluded during the grade point average calculation. The written request must be submitted to the Office of Admission and Records at the Maricopa Community College where the course with the lower grade was taken. Check individual courses and programs for exceptions.

D. 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. See "Important Deadlines for Students."

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.

E. 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 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. See "Important Deadlines for Students."

MARICOPA COMMUNITY COLLEGE POLICIES

F. Important Deadlines for Students

Class Length	Deadline for Students to Withdraw with Guaranteed Grade of W	Deadline for Students to Withdraw From a Course (Instructor Approval)	Deadline for Students to Request Complete Withdrawal	Deadline to Change Type of Grading (A-F to P/Z, or P/Z to A-F)	Deadline to Change from Audit Grade to Credit Grade	Deadline to Change from Credit Grade to Audit Grade
One Week or less	1st Dayr of Class	1st Day of Class or Prior to the Last Day of Class	1st Day of Class or Prior to the Last Day of Class	1st Dayr of Class	1st Dayr of Class	1stDayof Class
Two	Gth	12th	12th	2nd	1st Day of	4th
Weeks	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Class	Calendar Day
Three	9 th	18th	16th	3rd	1st Day of	7th
Weeks	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Class	Calendar Day
Four	12th	23ad	23th	4th	2nd	9th
Weeks	Calendar Day	Calendaa Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day
Five	15th	30th	30th	4th	2nd	11th
Weeks	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day
Six	19th	35th	35th	5th	3rd	13th
Weeks	Calendar Day	Calendar Day	Calendar Day	Calendar Day	CalendarDay	Calendar Day
Seven.	21st	40 th	40 th	Gth	3rd	15th
Weeks	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day
Eight	24th	49 th	49 th	7th	4th	18th
Weeks	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day
Nine	26th	51st	51st	6th	4th	20th
Weeks	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day
Tan	31st	57th	57th	9th	4th	22nd
Weeks	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day
Eleven.	34th	G3rd	63ad	10th	5th	24th
Weeks	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day
Twelve	37th	74th	74th	11th	5th	26th
Weeks	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day
Fifteen	46th	92nd	92nd	13th	7th	33.rd
Weeks	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day	Calendar Day
Sinteen. Weeks	End of the 7th Week	Two weeks before the last class period	Two weeks before the last class period	Within 14 days including the 1st class period	Within the first week of class	Within the first five weeks

Deadlines are based on calendar days and begin with the flist day of class.

Deadlines that fall on a weekend or holiday advance to the next college work day.

Academic Probation (Progress) (AR 2.3.4)

A. Probation

A student will be placed on academic probation under the following conditions:

 If, after completion of twelve (12) or more credit hours, the student's cumulative grade point average is less than:

Credit Hours for Which Grade Points are Computed at Resident Maricopa Community College Minimum Grade (A, B, C, D, F, and Y) Point Average Required

12-15	1.60
16-30	1.75
31-45	1.90
46 +	2.00

(Students should also be aware that graduation requires a cumulative minimum grade point average of 2.00).

 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.

B. 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.

C. 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.

Student Grievance - Academic Process (AR 2.3.5 & Appendix F)

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:

- Discuss the issue with the faculty member involved. This conference should be requested by the student within fifteen working days from the time the student knew or reasonably should have known about the unfair or unjust treatment.
- 2. If, within ten working days of the request for the conference with the faculty member, the problem is not resolved or the faculty member has been unable to meet with the student, the student may continue the process by filing a written complaint with the department/division chairperson and appropriate administrative officer at the college/ center. This written complaint must be filed within ten working days following the previous deadline. The written complaint will be given to the faculty member five days before any official meetings are convened.
- 3. Upon receipt of a written complaint, the department/division chair or appropriate college administrative officer will work with the parties in an attempt to resolve the conflict. The faculty member may ask that the college faculty senate president be in attendance. Every attempt will be made to maintain confidentiality during this process.

A faculty member will not be required to respond to a complaint which is not in writing and which, when appropriate, did not have specific documentation including dates, times, materials, etc. The written complaint will be made available to the faculty member.

4. If the grievance is not resolved at this level within ten working days, the student should forward to the dean of instruction or appropriate college/center administrative officer, a copy of the original written complaint with an explanation regarding action taken at each prior level. The dean of instruction or appropriate college/center administrative officer will meet with the student, faculty member, the college fac-



- ulty 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.

Withdrawal (AR 2.3.6)

To withdraw from a course or courses from the college, students must follow approved procedures. The Office of Admissions and Records provides information about the withdrawal process.

The official date of withdrawal is the last date of attendance as determined by the student's withdrawal or as reported by the instructor. The official date of withdrawal determines refunds.

Never attending is not a guarantee for a refund or an excuse of the debt incurred through registration. Please see the refund policy.

The prescribed time limits are for full semester classes. Time limits for classes which meet fewer than sixteen (16) weeks are adjusted accordingly. See "Important Deadlines for Students."

Withdrawal Procedures (Appendix G)

A. Withdrawal from Specific Courses

The prescribed time limits are for full semester classes. Time limits for classes which meet fewer than sixteen (16) weeks are adjusted accordingly. See "Important Deadlines for Students." Failure to file an official withdrawal form may result in failing grades and responsibility for course tuition and fees.

Students may be officially withdrawn from specific courses in the following ways:

 Through the 7th week, a student may initiate an official withdrawal from any course by submitting a course withdrawal form

- with the required signatures to the Office of Admissions and Records in accordance with the published deadlines. A grade of W will be assigned.
- 2. After the 7th week, a student may initiate a withdrawal. The instructor will sign the form and assign a grade of W or Y. The form is then to be returned to the Office of Admissions and Records. (See the college academic calendar for student deadline date.)
- 3. An instructor has the option of withdrawing a student who has accumulated unofficial absences in excess of the number of times a class meets per week. Students withdrawn for excessive absences may be reinstated only with the approval of the instructor. A grade of W will be assigned through the 7th week. After the 7th week, a grade of W or Y will be assigned. Instructors electing to withdraw students must file the withdrawal form, including the last date of attendance, with the Office of Admissions and Records.

Failure to file an official withdrawal form may result in failing grades.

B. 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. See "Important Deadlines for Students." Failure to withdraw officially from the college within the published deadlines may result in failing grades and responsibility for course tuition and fees.

Students electing to withdraw from the college must contact the Office of Admissions and Records no later than two weeks before the end of the last class meeting and may be required to file a written request.

A grade of W will be assigned in all courses for students who withdraw by the end of the 7th week of classes. Withdrawals completed after this time will result in a grade of W (withdrawn, passing) or Y (withdrawn, failing).

C. Withdrawal of Financial Aid Students

In accordance with federal regulations (CFR 668.22), a student may be required to repay federal financial aid funds if they completely withdraw or are withdrawn, or fail to earn a passing

grade from all classes during a semester. Further information is available at the college Office of Student Financial Aid. This could affect a student's ability to receive Financial Aid in the future at any school.

Academic Renewal (AR 2.3.7)

Students who are returning after a separation of five (5) years or more from the Maricopa Community College District, 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.

Academic renewal at one of the Maricopa Community Colleges does not guarantee that colleges outside the Maricopa Colleges will accept this action. Acceptance of academic renewal is at the discretion of the receiving institution.

- A. Prior to petitioning for academic renewal, the student must demonstrate renewed academic performance by earning a minimum of twelve (12) credit hours and a cumulative grade point average of 2.5 or higher within Maricopa Colleges after reenrollment.
- B. Upon approval, all courses taken prior to reenrollment with a grade of "A," "B," "C," "D," "F," and "Y" will be annotated as academic renewal on the student's permanent record. All course work affected by academic renewal will not be computed in the grade point average. Courses with grades "A," "B," or "C" will have the associated credit hours counted in the total credit hours earned. Such credit will not be computed in the grade point average.

- C. All course work will remain on the student's permanent academic record, ensuring a true and accurate academic history.
- D. The academic renewal policy may be used only once at each college and cannot be revoked once approved.
- E. 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 (AR 2.3.8)

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.

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.



College Environment

Sexual Harassment Policy (AR 2.4.4 & 5.1.8-17)

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.

Examples of Policy Violations (AR 5.1.9)

It shall be a violation of Maricopa Community College's Sexual Harassment Policy for any employee, student or campus visitor to:

- A. Make unwelcome sexual advances to another employee, student or campus visitor;
- Make unwelcome requests for sexual favors, whether or not accompanied by promises or threats with regard to the employment or academic relationship;
- C. Engage in verbal or physical conduct of a sexual nature with another employee, student or campus visitor, that may threaten or insinuate, either explicitly or implicitly, that the individual's submission to, or rejection of, the sexual advances will in any way:
 - Influence any personnel decision regarding that person's employment, evaluation, wages, advancement, assigned duties, shifts or any other condition of employment or career development; or

- 2. Influence his or her grades, participation in or access to academic programs, class standing or other educational opportunities;
- Engage in verbal or physical conduct of a sexual nature that:
 - 1. Has the purpose or effect of substantially interfering with an employee's ability to do his or her job; or with a student's ability to learn or participate in a class; or
 - 2. Which creates an intimidating, hostile or offensive work or academic environment;
- E. Commit any act of sexual assault or public sexual indecency against any employee or student whether on Maricopa Community Colleges property or in connection with any Maricopa Community Colleges-sponsored activity;
- F. Continue to express sexual interest in another employee, student or campus visitor after being informed or on notice that the interest is unwelcome (reciprocal attraction is not considered sexual harassment);
- G. Engage in other sexually harassing conduct in the workplace or academic environment, whether physical or verbal, including, but not limited to, commentary about an individual's body (or body parts), sexually degrading words to describe an individual, sexually offensive comments, sexually suggestive language or jokes, innuendoes, and sexually suggestive objects, books, magazines, computer software, photographs, cartoons or pictures.

Additional Policy Violations (AR 5.1.10)

Supervisors, managers, administrators and faculty who disregard or fail to report allegations of sexual harassment (whether reported by the person who is the subject of the sexual harassment or a witness) are in violation of this policy.

Responsibility for Policy Enforcement (AR 5.1.11)

Every Maricopa Community Colleges employee and student must avoid offensive or inappropriate sexual and/or sexually harassing behavior at work or in the academic environment.

Employees and students are encouraged (but not required) to inform perceived offenders of this policy that the commentary/conduct is offensive and unwelcome.

Amorous Relationships (AR 5.1.12)

An amorous relationship that might be appropriate in other circumstances may be inappropriate if one of the individuals in the relationship has a professional responsibility toward, or is in a position of authority with respect to, the other, such as in the context of instruction, counseling, advisement or supervision. An element of power is often present in such a context and it is incumbent upon those with authority not to abuse that power.

Complaints (AR 5.1.13)

A. Employees

Employees who experience sexual harassment at work (by a supervisor, co-employee, student or visitor) are urged to report such conduct to the direct attention of their supervisor their college president or to the Maricopa Community Colleges EEO/AA Office. If the complaint involves the employee's supervisor or someone in the direct line of supervision, or if the employee for any reason is uncomfortable in dealing with his or her immediate supervisor, the employee may go directly to the Maricopa Community Colleges EEO/AA Office.

B. Students

Students who experience sexual harassment in the academic environment (by a faculty member, administrator, campus visitor or other student) are urged to report such conduct to the Dean of Students (or equivalent) at each individual campus. A student may also contact the Maricopa Community Colleges EEO/AA Office to obtain the name and phone number of the college official designated to respond to sexual harassment complaints.

C. General - Applicable to Both Employees and Students

Complaints will be investigated according to procedures established by the Maricopa Community Colleges EEO/AA Office. Copies of these procedures may be obtained in the college president's office, Dean of Students Office and the Maricopa Community Colleges EEO/AA Office.

The college/center/MCCCD will investigate all complaints as professionally and expeditiously as possible.

Where investigation confirms the allegations, appropriate responsive action will be taken by the college/center/MCCCD.

The Maricopa Community Colleges EEO/AA Office phone number is 480-731-8885.





Confidentiality (AR 5.1.14)

Records will be maintained in a confidential manner to the extent permitted by law and insofar as they do not interfere with Maricopa Community Colleges' legal obligation to investigate and resolve issues of sexual harassment.

Violations of Law (AR 5.1.15)

An employee or student may be accountable for sexual harassment under applicable local, state, and/or federal law, as well as under Maricopa Community Colleges policy. Disciplinary action by Maricopa Community Colleges may proceed while criminal proceedings are pending and will not be subject to challenge on the grounds that criminal charges involving the same incident have been dismissed or reduced.

False Statements Prohibited (AR 5.1.16)

Any individual who knowingly provides false information pursuant to filing a discrimination charge or during the investigation of a discrimination charge, will be subject to appropriate disciplinary action, up to and including, employment termination or academic dismissal.

Retaliation Prohibited (AR 5.1.17)

Retaliation against an employee or student for filing a sexual harassment complaint, or participating in the investigation of a complaint, is strictly prohibited. Maricopa Community Colleges will take appropriate disciplinary action, up to and including employment termination or academic dismissal if retaliation occurs.

Petition Signature Solicitation (AR 2.4.8)

- A. This regulation shall govern access to college premises by representatives who wish to solicit signatures on petitions for the purpose of submission of a ballot proposition to voters, or nomination of a candidate for elective office, in a city-, county-, or state-wide election.
- B. Each college president shall designate general hours of accessibility for solicitation and a location on college premises where all representatives on behalf of any candidate or ballot proposition may solicit signatures. The location shall be in a common area where the solicitation will not serve as an obstruction to student activities or otherwise disrupt the college environment.

- C. All solicitation must take place in designated areas. Standard space may include one or two tables and chairs. Campus restrictions regarding amplification will apply. Representatives may not distribute or make available to students, employees, or college visitors any tangible item, except for informational literature about the proposed candidate or ballot initiative.
- D. Representatives shall notify the designated official at each college or center of their intent to be present on college premises no fewer than three working days prior to soliciting signatures. Upon obtaining authorization, representatives shall be provided a written version of this regulation.

Solicitation (AR 2.4.9)

A. Definitions

A "solicitor" is any non-Maricopa Community Colleges-affiliated entity that would, on the premises of any Maricopa Community College or Center, purport to sell or promote any product, service, or idea, but does not include such an entity that would enter the premises for the purposes of promoting, opposing, or soliciting petition signatures in connection with any political candidate or initiative, or referendum ballot.

A "special event" is a college-sponsored event conducted on college premises for the benefit of students that is based on a particular theme, and for which the college has deemed it essential to invite the participation of solicitors whose products, services or ideas are pertinent to the special event's theme.

B. Requirements

- A solicitor must notify the designated official at each college or center of their intent to solicit on college or center premises. A solicitor who would purport to sell any product or service is responsible for obtaining any necessary tax licenses and must submit to the designated official a certificate of commercial liability insurance and pay to the college or center, in consideration for the opportunity for solicitation, a fee in the amount of \$50 per day or \$125 per full week.
- 2. Campus restrictions regarding location, time, date, and use of amplification may apply. All requests for space shall be granted on a first-come, first-served basis

- only upon completion of the requirements contained in this regulation.
- All solicitation must take place at tables in designated areas. Standard space will be one or two tables and chairs. Solicitors may be limited to no more than fifty (50) hours of solicitation activity per semester at each college or center.
- 4. By requesting the opportunity for solicitation on the premises of a college or center, a solicitor warrants that it may lawfully sell or promote its product, service or idea and that such activity does not violate any law, and does not violate any trademark, copyright, or similar proprietary interest. The activity of any solicitor may not violate any existing Maricopa contract.
- The president of every college or center shall establish for such location restrictions governing the activities of solicitors. Such restrictions shall supplement, but shall not replace or waive, this regulation.
- 6. A college may waive the fee prescribed in this regulation for any solicitor's participation in a special event if the college determines that such participation will be of particular educational benefit to the interests of that college's students; the participation is sponsored by a club, organization, or academic division; and the participation is approved by the college's Student Life and Leadership department. A college may waive both the fee and the insurance certificate requirements prescribed in this regulation for a student purporting to sell or promote a product or service at a special event, provided that:
 - a. Such product or service presents low risk of harm to a potential user;
 - The product or service is not food or food-related and;
 - c. The student is soliciting solely on his or her own behalf and not pursuant to any sales agreement, commission agreement, or similar affiliation or contractual relationship with another entity.
- Any solicitor who violates this regulation may be deemed a trespasser on college or center premises, and therefore subject to appropriate prosecution within the discre-

tion of the College Safety department and other responsible officials at the college or center. The Maricopa County Community College District, its colleges and centers, assume no responsibility—financial or otherwise—for the acts or omissions of any vendor whose presence on college premises pursuant to this regulation is approved by any college official.

Children on Campus (AR 2.4.10)

Children (younger than 18) may not attend any class unless they are officially registered for the class.

Children will not be allowed on campus unless participating in an authorized college program or under the supervision of an adult.

Crime Awareness and Campus Security Act (AR 2.4.11)

Federal legislation requires the college 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 on this subject, contact the college Safety and Security Department.

Workplace Violence Prevention (AR 2.4.12)

It is the policy of the Maricopa Community Colleges to promote a safe environment for its employees, students, and visitors. The Maricopa Community Colleges are committed to working with its employees to maintain an environment free from violence, threats of violence, harassment, intimidation, and other disruptive behavior.

Violence, threats, harassment, intimidation, and other disruptive behavior in our facilities will not be tolerated, and it is the responsibility of all members of the Maricopa Community Colleges to report any occurrence of such conduct. Every employee, student and visitor on Maricopa Community College District property is encouraged to report threats or acts of physical violence of which he/she is aware. All reports will be taken seriously and will be dealt with appropriately. Such behavior can include oral or written statements, gestures, or expressions that communicate a direct or indirect threat of physical harm.

This policy applies to employees and students, as well as independent contractors and other non-employees doing business with the Maricopa Community Colleges. Individuals who commit such acts may be removed from the premises and may be subject to disciplinary action, criminal penalties, or both. The Chancellor is hereby instructed to enact all administrative regulations necessary to implement this policy.

Student Right to Know (AR 2.4.13)

Under the terms of the Student Right To Know Act, the college must maintain and report statistics on the number of students receiving athletically related student aid 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 similar statistics. To obtain copies of these reports, contact the Office of Admissions and Records.



College Services



College Services

Academic Advisement

Academic advising is available in the Academic Advisement Center located in Building A on the Pecos Campus and in Student Services located in the ATC Building on the Williams Campus. Academic advising helps students to:

- Define and achieve educational goals
- Understand initial placement into English, mathematics, and reading courses
- Explore degree programs and plan a program of study
- Transfer to and from other colleges
- Schedule classes

The Center also coordinates campus visitations for representatives from local colleges and state universities throughout the year to meet with students to assist with their transition to a four-year institution or professional school. Topics covered with university and college representatives include information on admission, credit transfer, housing, and financial assistance.

It is recommended that all students meet with an **academic advisor at least once each semester**. Academic advisement is available on a walk-in basis at the Pecos Campus in Building A, Room A140R, and by appointment at the Williams Campus.

Additional Academic Advisement Center and Transfer Center information is available on-line at www.cgc.maricopa.edu/advisement/ or by phone at (480) 732-7317 at the Pecos Campus and (480) 988-8000 at the Williams Campus. Students can access on-line advisement tools and check sheets for CGCC certificates, degrees, and transfer programs; these tools can be printed for informational purposes and used during an advisement session. Students can submit general questions to an advisor on-line via the Advisement Center Web page or AskAdvisor@cgc mail.maricopa.edu.

Admissions, Records, and Registration

The Admissions, Records, and Registration Office, located in Building A at the Pecos Campus and the

Aviation and Technology Center at the Williams Campus, provides the following services:

- Processes the Student Information Form needed to register at CGCC and handles special admission requirements and forms
- Evaluates credits from prior learning such as Advanced Placement, Articulated Programs, College Level Examination Program, Transfer Credit, and Military Service
- Verifies credits for graduation
- Determines residency for tuition purposes and processes changes in residency
- Processes all class registrations and drop/adds
- Hears Admissions and Standards appeals, including refund issues (requests must be in writing)
- Maintains official college records for all students and responds to requests for transcripts and letters of verification

For additional information, visit www.cgc. maricopa.edu/admissions/ or call (480) 732-7320 at the Pecos Campus and (480) 988-8901 at the Williams Campus.

Assessment and New Student Orientation

Assessment (Placement Testing)

Assessment, or placement testing, is the process of evaluating students' present skills in English, reading, and mathematics to assist students in choosing courses that match their skills. Course selection is based on scores from the Assessment of Skills for Successful Entry and Transfer (ASSET) course placement tests.

New students enrolling in seven or more credit hours and students pursuing a degree or enrolling in English, mathematics, or reading courses must take a placement test.

Upon entry, new students will:

Complete information about educational back ground and current college goals

- Complete the ASSET course placement tests in English, reading, and mathematics
- Obtain placement test results and course recommendations that students can then take to
 Advisement to work with an academic advisor for course selection

The Assessment and New Student Orientation Office at the Pecos Campus is located in Building A, Room A151R. The Assessment Office at the Williams Campus is located in the Aviation and Technology Center.

For additional information regarding the times of the Assessment Sessions at the Pecos Campus, visit www.cgc.maricopa.edu/assessment/ or call (480) 732-7159 or (480) 732-7338. For additional information or to schedule Assessment Sessions at the Williams Campus, call (480) 988-8000.

New Student Orientation

All new students should plan to attend the New Student Orientation Session. The Orientation Session is free, and students will have the opportunity to:

- Hear a brief overview of CGCC, its policies and procedures, and course and degree offerings
- Discuss success strategies designed for students
- Learn about student support services, clubs, organizations, and student leadership opportunities

Certain students (e.g., Athletes, ESL students, Reentry students) will also attend special orientation activities designed to meet their specific needs.

Please call (480) 732-7205 or (480) 732-7317 for the dates and times of the New Student Orientation Sessions. Additional information can also be found at www.cgc.maricopa.edu/orientation/.

Athletics

Chandler-Gilbert would like to welcome students to the Coyote athletic programs. CGCC is looking forward to another successful season of intercollegiate competition in the Arizona Community College Athletic Conference. CGCC student athletes not only distinguish themselves on the athletic fields, but also in the classroom, setting high standards for future CGCC athletes.

Volleyball and basketball games are played at the CGCC Williams Campus Gym. Softball and base-

ball games and soccer matches are played on new fields at the Pecos Campus.

For more information, visit www.cgc.maricopa.edu/athletics/ or call:

Volleyball
Baseball(480) 732-7364
Men's & Women's Soccer (480) 732-7363
Women's Basketball (480) 732-7357
Men's Basketball (480) 732-7366
Softball
Athletic Trainer
Athletic Director (480) 732-7177
Academic Advisement (480) 732-7317

Bookstore

Students can purchase all textbooks and supplies for the Pecos campus through the Bookstore, located west of the Student Center. Students on the Williams Campus can purchase textbooks and most supplies through the Williams Campus Bookstore, located in Room 102 of the Arizona State University East Academic Center Building.

The Bookstore also carries gifts, clothing, book bags, phone cards, official school rings, and gift certificates.

The CGCC Bookstore allows students to pay with cash, check, or major credit card. Refunds are given to Bookstore customers under certain conditions. Complete payment and refund policies are posted at both Bookstore locations and are listed in the class schedule.

Because Follett Higher Education Group manages the Pecos campus Bookstore, students on that campus also have the option of reserving, prepaying, and shipping their current semester's textbooks on-line at www.efollett.com.

Call (480) 732-7350 for additional information about the Pecos Campus Bookstore, or (480) 727-1168 for additional information about the Williams Campus Bookstore.

Career and Placement Services

The Career and Placement Services Office has two locations in which to serve the students of Chandler-Gilbert Community College. At the Pecos Campus, the Career and Placement Services Office is located in Room 159 of the Student Center. At the Williams Campus, the office is located in the Aviation and Technology Center. Services to students and alumni include resume development, interview preparation,

placement assistance, job postings and career assessment. Opportunities are also available to occupational students that allow them to participate in a structured work experience in their career field prior to graduation.

Students seeking career related information can also visit the Career Services section of the CGCC Web site at www.cgc.maricopa.edu/careers. This site will guide students in assessing their interests, personalities, and abilities as they relate to the world of work. Once assessments have been made, students can investigate career, employment, and college information. Finally, students can learn how to market themselves to employers with links to resume and interview information sites. The Web site also contains a link to the Maricopa Career Network at www.maricopa.edu/careers. This site is the Maricopa Community College District's local job board for employers in the Phoenix area.

For more information or to speak with a career advisor, contact the Career and Placement Services Office at 480-857-5211 or visit www.cgc.maricopa.edu/careers.

Cashier/Fiscal

The Cashier/Fiscal office manages financial operations for the college, including tuition and fee collections, and provides financial accountability to funding agencies and individuals. Trained and qualified staff members also provide student assistance during both day and evening hours in Building A, Room A139, at the Pecos Campus and Room 109 at the Aviation and Technology Center at the Williams Campus. Students who have questions regarding financial matters other than financial aid should call (480) 732-7312 at the Pecos Campus or (480) 988-8123 at the Williams Campus. Students can also visit www.cgc.maricopa.edu/fiscal/ for additional information.

College Safety

The College Safety department is responsible for maintaining a safe, orderly, and peaceful atmosphere on campus to contribute to student development and success. It was formed with these objectives in mind, and is staffed by qualified security personnel, including Certified Peace Officers. The College Safety department is located in Building M, Room M105, at the Pecos Campus and in the Aviation and Technology Center at the Williams Campus.

Students are encouraged to inform the Director of College Safety about any situation that might warrant support for safety reasons (stalkers, potentially violent situations, orders of protection, etc).

Services to students, faculty, and staff include:

- Issuing CGCC student and faculty identification cards
- Issuing CGCC student, faculty, and staff parking decals and temporary disabled parking placards
- Providing Security escorts to and from parking lots when requested
- Assisting students, faculty, and staff in case of accident or injury on campus
- Providing minor assistance to motorists with disabled cars, such as jump-starts and removing keys from locked vehicles
- Delivering emergency messages
- Enforcing traffic and parking regulations on campus
- Providing Lost and Found services
- Administering college vehicle use
- Patrolling campus
- Encouraging student, faculty, and staff participation in Campus Crime Watch and other safety and crime prevention programs

For additional information, call (480) 732-7280 at the Pecos Campus or (480) 988-8888 at the Williams Campus. Information on crime prevention programs, safety policies, reporting incidents, and CGCC crime statistics for the previous three years can be found at www.cgc.maricopa.edu/safety/.

Emergencies

In the event of emergencies on campus, contact the College Safety department at (480) 732-7280 at the Pecos campus or (480) 988-8888 at the Williams campus. Emergency telephones are located in the east and west parking lots of the Pecos Campus and ring directly into the College Safety department.

Call 911 in the event of a medical emergency.

Computer Lab

Currently enrolled students who require computer resources to complete class assignments have access to an open computer lab environment in the Computer Lab, located in Building B, Room B123, on the Pecos Campus. All Chandler-Gilbert Community College students will be assessed a \$1 per credit hour or \$1 per noncredit section Technology Resource Fee. This fee supports students' access to CGCC computer resources. The Computer Lab is similar to a library, where students have open access to a self-paced learning environment to study class materials, complete class assignments, and research information.

Computer Lab technicians and student assistants are available for general assistance. Questions regarding specific classes, assignments, or materials should be directed to class instructors.

Access to the Computer Lab equipment is on a first-come, first-served basis. Established hours of operation may vary each semester, with greatest usage occurring during early morning hours. The Computer Lab is also open on Saturdays. Students can call (480) 732-7221 or visit www.cgc.maricopa. edu/cic/ for additional information.

CGCC students enrolled in classes on the Williams Campus also have access to the Computing Commons, located in Arizona State University East's Academic Center Building. The Computing Commons is a general-purpose computer lab providing computer resources for Williams Campus faculty, staff, and students. Students must provide proof of current enrollment in Williams Campus classes for access. Computer lab technicians are available for assistance. For further information about access and hours of operation, call (480) 727-1118.

Computer Classrooms

In addition to the computer resources in the Computer Lab, CGCC has several computer classrooms on the Pecos Campus, the Williams Campus, and the Sun Lakes Education Center.

These facilities provide computer-based learning in a classroom setting. Although some open lab hours may be scheduled, these hours are limited and depend on the current schedule of classes. See the schedule posted in each room to identify open lab hours.

Computer Resources

Multivendor, multiplatform computing resources provide access to a variety of network services including desktop applications, network file and print services, CD-ROM LAN materials, and Internet access. A number of computing systems are supported, including Digital Equipment, Compaq, Hewlett Packard, and Apple Computer. CGCC's network topology integrates voice, video, and data services via a campus-wide network infrastructure.

Electronic mail and computer conferencing are available to students in selected classes. Similar classroom access to electronic research and media holdings is also available from libraries located at CGCC at the Pecos Campus, ASU East at the Williams Campus, ASU Main, and community libraries located in the East Valley.

Dean of Students' Office/Student Helpline

Chief Student Advocate

The Dean of Students' Office serves as the chief advocate for all students at Chandler-Gilbert Community College. All students are welcome to call, come by Room SC150 in the Student Center at the Pecos Campus, or e-mail the Dean of Students with any issues related to Chandler-Gilbert Community College at:

lois.bartholomew@cgcmail.maricopa.edu.

The Dean of Students' Office provides information on all student services and the following MCCD policies:

- Student Rights and Responsibilities
- Student Discipline and Grievances
- ADA Accommodations
- Sexual Harassment Issues
- 504 and EEOC Issues/Discrimination Issues
- Employee Discrimination Issues
- Student Emergencies

Students can find MCCD policies related to these issues at the following Web site: www.dist. maricopa.edu/eddev/students/genpolicies/outline.htm.

Student Helpline: (480) 732-7309

The 24-hour HELPLINE affords students another way to communicate any personal, social, or academic concern they may have while attending CGCC. The HELPLINE is a means for students to seek personal attention on matters that are of importance to them and affect their efforts to succeed while attending CGCC. Students who have questions or concerns about campus or classroom policies, procedures, or activities are encouraged to call this number at any time of the day or night. The Dean will promptly respond within twenty-four hours.

This call will go to the Dean of Students' voice mail; a tape-recorded message will ask students to leave their name, phone number (if students choose to provide it), and their request. Every effort will be made to contact students and answer or resolve their questions or concerns.

Reasons students or their parents may wish to use this HELPLINE are:

- Parental inquiries
- Student legal rights and code of conduct
- Complaints of any nature. Referrals will be made to appropriate resources
- Matters of campus safety of self or others
- Adjustment to college
- Underage students
- Academic probation or suspension issues
- Information about enrollment and support services on campus
- Desire to get involved in school activities or student organizations
- Student grievance procedures
- Personal concerns about:
 - Overall campus climate
 - Harassment/discrimination
 - Any campus procedure in student services
 - Thinking about withdrawing or dropping out because of
 - Concerns about a course or instructor
 - Questions about a campus rule, regulation, or policy
 - Suggestions for a workshop, activity, or program to meet a campus need

Any topic that students need someone to take action on at CGCC!

By identifying students' needs, the Dean of Student Services, through the use of this HELPLINE, is willing to offer support in addressing their needs and making effective referrals to the appropriate campus service, program, or personnel. Complete confidentiality is assured.

Disability Resource and Services

The CGCC Disability Resource and Services Office (DRS) serves the needs of all qualified students. Students seeking accommodation must self identify and make an appointment with the DRS Office to review appropriate accommodation and support. Students will be provided a brochure outlining DRS services, accommodations, and documentation requirements. Students must provide proper documentation prior to accommodation. The DRS coordinator can be reached at (480) 732-7050, TTY (480) 732-7066. Additional information is also available at www.cgc.maricopa.edu/ss/disability/.

The 504/ADA Coordinator for CGCC is the Dean of Student Services. Please direct all concerns and requests to the Dean's office at (480) 732-7309.

Facilities Services

The Facilities Services office is responsible for creating and maintaining a physical environment conducive to effective teaching and learning. To report problems associated with either buildings or grounds, stop by the office or call (480) 732-7285 at the Pecos Campus or (480) 988-8131 at the Williams Campus. The Facilities Services office is located in Building M at the Pecos Campus and in the Aviation and Technology Center at the Williams Campus. For additional information, visit www.cgc.maricopa.edu/facilities/.

Financial Aid and Veterans Services

The Financial Aid Office, located in Building A at the Pecos Campus and the Aviation and Technology Center at the Williams Campus, is responsible for the following student services functions:

- Financial aid
- Veterans services
- Scholarships
- Federal Work-Study employment

Financial Aid and Veterans Services Office telephone numbers are (480) 732-7311 at the Pecos Campus, and (480) 988-8135 at the Aviation and Technology Center at the Williams Campus.

Financial Aid

CGCC is committed to providing support to students with financial need. However, students are expected to share in the expenses of attending college. The purpose of the CGCC Financial Aid Office is to assist with this responsibility by determining students' financial need and awarding assistance to eligible students. This is accomplished by evaluating all aid applications through the use of a standard financial needs analysis system that determines how much students and/or their families can afford to contribute toward the college costs.

Several types of federal financial aid are available. These include:

- Grants
 - Pell Grant
 - Supplemental Educational Opportunity Grant (SEOG)
 - LEAP Grant (State Grant Program)
- Loans
 - Direct Stafford Loans
 - Direct Parent Loan for Undergraduate Students (PLUS)
 - Perkins Loan
- Work-Study
 - Part-time employment on campus

Students must apply and qualify for financial aid for each academic year in order to be considered for assistance by completing the Free Application for Federal Student Aid (FAFSA). The application process requires approximately two months, so it is best to apply as early as possible before the semester of attendance. Students should file an application by May of each year for the fall term and by October for the spring term. Applications received after these months are processed but are considered late, and award funds may be limited.

Students must be making satisfactory academic progress in order to receive financial aid. Visit www.cgc.maricopa.edu/financial_aid/ or contact the office for specific details: (480) 732-7311 at the Pecos Campus, or (480) 988-8135 at the Aviation and Technology Center at the Williams Campus.

Veterans Services

Application forms, counseling, advisement, and tutoring are available for students who are eligible for veterans educational benefits. Students applying for veterans benefits for the first time should allow eight to ten weeks before receiving benefits. The amount of benefits awarded is based on the number of credit hours for which a student is enrolled. Those students receiving benefits must be following the VA academic progress policy to continue to receive benefits.

Veterans chapters served:

- Chapter 30 Montgomery GI Bill
- Chapter 31 Vocational Rehabilitation (separately served through local VA Vocational Rehabilitation offices)
- Chapter 32 VEAP Program
- Chapter 35 Survivors and Dependents of Deceased/100% Disabled Veterans
- Chapter 1606 Selected Reserve GI Bill

For additional details, contact the Financial Aid and Veterans Services Office at (480) 732-7311 at the Pecos Campus and (480) 988-8135 at the Williams Campus. Information is also available at www.cgc.maricopa.edu/veterans/.

Scholarships

Scholarships are available for prospective students as well as currently enrolled students. Because the applications and deadlines vary for each scholarship, applying early is critical. Completion of the federal financial aid application may be required for some scholarships.

CGCC gratefully acknowledges scholarship donors for their support of our students. Please see the appendix for a list of donors.

Federal Work-Study Employment

Federal Work-Study positions are coordinated through the Financial Aid Office and the Career and Placement Office on the Pecos Campus.

Food Services

The CGCC food service operation is contracted through ARAMARK and The Coyote Cafe is located in Building B, Room B133, at the Pecos Campus.

Food service for the CGCC community is provided at the Pecos Campus on a daily basis Monday-Friday during the academic year and Monday-Thursday during the summer. Hours of operation may vary. All payments must be in cash or by debit card. Food Services also provides catering for special events, banquets, and meetings. The manager is glad to hear students' comments and assist with catering arrangements. Visit www.cgc.maricopa.edu/food/ or call (480) 732-7362.

Institutional Research

The Institutional Research office, located on the Pecos Campus in Building B, Room B112, provides assistance to instructional and student support services divisions by collecting and analyzing information used to improve the quality of education and services and ensure student success. The office accomplishes this task by coordinating the development and implementation of the Institutional Effectiveness Plan, providing administrative support to the Student Learning Outcomes Assessment Committee, and providing appropriate research support to faculty and staff to improve the delivery of products and services. Call (480) 857-5118 or visit www.cgc. maricopa.edu/institutional_research/.

International Students

Students thinking of coming to CGCC as an international student may contact the Admissions, Records and Registration office for information related to necessary paperwork to attend CGCC. This office can give you information on student insurance requirements for all international students.

For academic advisement, international students should contact the advisement coordinator at (480) 732-7095. The coordinator will be glad to answer any academic questions related to CGCC programs of study.

For other issues related to international students please call the Dean of Students office at (480) 732-7322 for information or e-mail lois.bartholomew@cgcmail.maricopa.edu.

Learning Center (Tutoring)

The Learning Center mission is to support students' academic learning by providing free instructional support (tutoring) and resources to reinforce and supplement classroom instruction and to assist stu-

dents in achieving academic success. While the emphasis is on providing writing, mathematics, and science support, services are available for a wide range of academic courses at CGCC. Tutoring services are available on a drop-in basis for many courses and by appointment for select courses. Resources include videotapes, software, and print materials.

Students must be enrolled at CGCC in the class for which they are seeking assistance. For more information, visit www.cgc.maricopa.edu/lc/ or call (480) 732-7231.

Mathematics and Science Tutoring

The Math and Science tutoring program at the Pecos Campus is located on the second floor of the Library, Room L229. At the Williams Campus, tutoring takes place in the Learning Center, ASU East Academic Center, Room 160. A schedule of tutoring hours and services is posted at the beginning of each semester.

The Math and Science tutoring program offers:

- Drop-in tutoring for math, chemistry, biology, physics, and engineering
- Trained tutors, including math and science faulty
- Computers with mathematics software
- Videos of algebra lessons

Writing Center

The Writing Center is a valuable resource to assist students with their writing needs in all of their college courses. The Center helps students address a wide range of writing concerns, from how to determine whether they have a good thesis to how to organize their work, revise more effectively, and document sources accurately. The Writing Center at the Pecos Campus is located on the second floor of the Library, Room L227. Writing tutors are also available at the Williams Campus Learning Center in the ASU East Academic Center, Room 160. A schedule of tutoring hours and services is posted at the beginning of each semester. No appointment is necessary.

The Writing Center services include:

- Tutoring
- Reference materials for help with writing assignments
- A comfortable, quiet study area for individual or small-group work
- Computers for academic use

Library

The CGCC Library creates the connection between people and information. The library faculty and staff teach the identification, location, and critical evaluation of the dynamic information world. The full gamut of information resources is available, including Web-based as well as traditional print and multimedia.

The Library has ten conference/study rooms, a library instruction classroom, an index/CD-ROM area, periodicals and newspaper display and storage, and carrels with telecommunications services. Currently the CGCC Library owns 24,000 books, 180 periodical subscriptions, 94,000 microfiche, and 170 maps.

In addition to CGCC's holdings, the MCCD Library and Media Centers, Internet, and a variety of CD-ROM databases are among the primary resources used by staff and students. Library staff also assist patrons through reference, interlibrary loan, database searching, and information referral services.

Students, faculty, and staff may access Library materials and selected databases, such as magazines and journals, newspapers, and Web resources, from home by going to the Library Web page at www.cgc.maricopa.edu/library/. The patron will need his/her library card number (on the back of the CGCC ID card) connected to the Library computer system.

CGCC students at the Williams Campus have access to the CGCC Library located on the Pecos Campus as well as the Arizona State University East Library located in the Academic Center Building.

For more information about the CGCC Library, call (480) 857-5100.

Marketing and Public Relations

The college Marketing and Public Relations office is responsible for internal and external public relations, marketing, and communications programs, including publicity, promotion, media relations, the college newsletter, advertising, college information, publications, and other projects. The Marketing and Public Relations office, located at the Pecos Campus in Building B, Room B118, also serves in an advisory role for student government, activities, events, and programs. Call (480) 732-7004, (480) 732-7030 or (480) 732-7114 for more information, or visit our Web site at www.cgc.maricopa.edu/marketing/.

Media Services

Media Services provides telecommunication and media services and equipment at all CGCC campus locations: Pecos, Williams, and Sun Lakes. The Media Center is located on the second floor of the Library, at the Pecos Campus. Media resources and equipment can be reserved for classroom use by an instructor. The videos from the video collection are available for viewing via the campus cable system.

In order to use the Media Center resources, please have a CGCC ID card available. Visit the Web site at www.cgc.maricopa.edu/media for additional information concerning Media Center hours and services for all locations or call (480) 732-7110.

Recruitment Services

The Office of Recruitment Services provides information to students about various programs and the benefits of attending Chandler-Gilbert Community College. Activities such as regular high school visits, on-site ASSET testing, college campus tours, and a variety of recruitment events are customized to meet the needs of potential students. To request information or schedule a campus tour, visit our Web site at www.cgc.maricopa.edu/prospective/ or call (480) 857-5188.

Student Development Center

Students needing personal assistance with any issue are welcome to go to the student development office in the Student Center. The student development center staff assists students with appropriate on-campus referrals. The phone number for this area is (480) 857-5449.

Student Life and Student Activities

All students are encouraged to participate in programs and activities sponsored by the Office of Student Life, located in the Student Center, at the Pecos Campus. There are many opportunities to enhance classroom experience with co-curricular activities. These include leadership development, community service programs, cultural events, and an opportunity to participate in one of the many student organizations. For additional information, visit www.cgc.maricopa.edu/student/life/. To participate in campus and community service programs, call the Office of Student Life at (480) 732-7150.

Leadership Development

EMERGING LEADERS PROGRAM The Emerging Leaders Program is designed to train students to become future leaders. A series of leadership workshops is provided for all students during the spring semester.

GETTING INVOLVED - LEADERSHIP RETREATS AND LEADERSHIP ACTIVITIES Leadership retreats are organized to increase students' leadership skills during the fall and spring semesters. Interested students are encouraged to call the Office of Student Life.

Community Service and Volunteer Opportunities

Students are encouraged to serve and volunteer on campus and in the community in a variety of ways. Listed below are some of the activities that students participate in:

designed to integrate community service into the classroom. This program benefits everyone involved: students, faculty members, and the community. Students interested in becoming part of the Service-Learning team as an assistant or wanting further information are encouraged to stop by or call the Office of Student Life at the Pecos Campus for more information.



INTO THE STREETS Each semester students are encouraged to participate in the Into the Streets program, which is designed to give students hands-on experience serving in some of CGCC's many community service agencies, such as the Boys and Girls Clubs, nursing homes, and homeless shelters.

ADOPT-A-FAMILY PROGRAM This program assists CGCC students with necessary food, clothing, and related resources. During the holidays, meals and gifts are provided as well. Students must complete an application or be referred by college employees.

Student Organizations

The list of student organizations at CGCC grows each year. Listed below are the current, officially recognized groups. Student organizations may be formed for many purposes—social, service, athletic, professional, and religious. Current information is available in the Office of Student Life. For more information about student organizations, visit or contact the Student Life office.

- ALSO Alternative Lifestyles Student Organization
- ASCGCC Associated Students of Chandler-Gilbert Community College
- CIA Christians in Action
- Eagle Feather
- Essence of Color
- HSO Hispanic Student Organization
- ICE Intercultural Exchange Club
- LDSSA Latter-Day Saints Student Association
- PASO Performing Arts Student Organization
- PTK Phi Theta Kappa (PTK)
- Political Science Organization
- VICA Vocational and Industrial Clubs of America

HOW TO CREATE A STUDENT ORGANIZATION

Student organizations can be created to meet the needs of a diverse student population. Students thinking of creating a new student organization should meet with the Director of Student Life to learn the steps to take to have any group officially recognized at CGCC.

Voter Registration

Students and community members have the opportunity to register to vote in the Office of Student Life at Chandler-Gilbert Community College. Voter registration is also available on-line at www.sosaz.com or by calling (877) THE-VOTE [(877) 843-8683]. Contact the Office of Student Life at (480) 732-7150 or visit www.cgc.maricopa.edu/student/life/voter_registration.shtml for registration deadlines and election dates.

Technical Support Services

Technical Support Services (TSS) is located on the second floor of the Library. Technical planning, design, integration, and ongoing operational support for computing and network communications for voice and data services is provided by TSS staff. This includes technical support in the following areas:

- Enterprise Network Services
- Client/Network Support
- Computer Hardware Repair
- Desktop Software
- Telephone Support
- Student Information System (SIS)
- Web-based Applications

TSS provides technical support at the Pecos Campus, Williams Campus, and Sun Lakes Education Center. CGCC's intranetwork design provides connectivity to a variety of network environments, including the Internet, and supporting cross-platform workstations such as Macintosh, Windows, and Unix.

Trained, qualified staff members are available for delivering technical services, implementation, and support for instructional and administrative systems. For technical assistance or coordination of technical support issues please call the Technical Assistance Center (TAC) at (480) 732-7025 or visit the Web site at www.cgc.maricopa.edu/tss/employee_resources.shtml.

Williams Campus Housing

Student residential living is provided at the Williams Campus for those students who meet eligibility and priority criteria. Two-, three-, four-, and five-bed-room houses and residential hall rooms and suites are available for rent. Housing at the Williams Campus is open to any student enrolled in one of the Maricopa Community Colleges. Preference is given to students enrolled in educational programs at the Williams Campus, with priority assigned according to enrollment and program during the academic term(s).

Verification of Continuing Students and Good Standing: Student status and eligibility to remain in residential living will be verified each term. To remain in good standing and continue residing on the Williams Campus, students need to be enrolled throughout the term(s) in which priority is assigned. Currently enrolled CGCC students at the Williams Campus may appeal possible withdrawal from residential living based upon exceptional or extenuating circumstances.

Contact the Williams Campus Housing Office at (480) 727-1700 for specific information, or visit the Web site at www.east.asu.edu/sta/u-life/housing/.



College Regulations and Practices



Computer Conduct

Arizona state law prohibits unauthorized access, alteration, or damage to any computer, computer system, or computer network, including both hardware and software. Examples of such unauthorized access are illegal software copying and "hacking" or illegal access to a computer system. These actions are held to be felonies under the law, and therefore are subject to college disciplinary action. The student is responsible for proper computer conduct, including the knowledge that unauthorized access is illegal. For further information concerning the statutes on computer fraud, see Arizona Revised Statutes 13-2316.

§13-2316. Computer fraud, classification

- A. A person commits computer fraud in the first degree by accessing, altering, damaging or destroying without authorization of use of any computer, computer system, computer network, or any part of such computer, system or network, with the intent to devise or execute any scheme or artifice to defraud or deceive, or control property or services by means of false or fraudulent pretenses, representations or promises.
- B. A person commits computer fraud in the second degree by intentionally and without authorization or by exceeding authorization, accessing, altering, damaging or destroying any computer, computer system or computer network, or any computer software, program or data contained in such computer, computer system or computer network.
- C. Computer fraud in the first degree is a Class 3 felony. Computer fraud in the second degree is a Class 5 felony. (A.R.S. Section 13-2316)

For the purposes of §13-2316:

"Access" means to approach, instruct, communicate with, store data in, retrieve data from or otherwise make any use of any resources of a computer, computer system or computer network.

- "Computer" means an electronic device which
 performs logic, arithmetic or memory functions
 by the manipulations of electronic or magnetic
 impulses and includes all input, output, processing, storage, software or communication facilities which are connected or related to such a
 device in a system or network.
- "Computer network" means the interconnection of communication lines with a computer through remote terminals or a complex consisting of two or more interconnected computers.
- "Computer program" means a series of instructions or statements, in a form acceptable to a computer, which permits the functioning of a computer system in a manner designed to provide appropriate products from such computer system.
- "Computer software" means a set of computer programs, procedures and associated documentation concerned with the operation of a computer system.
- "Computer system" means a set of related, connected, or unconnected computer equipment, devices and softwares.
- 7. "Financial instrument" means any check, draft, money order, certificate of deposit, letter of credit, bill of exchange, credit card or marketable security or any other written instrument, as defined by section 13-2001, paragraph 7, which is transferable for value.
- 8. "Property" means financial instruments, information, including electronically produced data, computer software and programs in either machine or human readable form, and anything of value, tangible or intangible.
- "Services" includes computer time, data processing and storage functions. (A.R.S. Section 13-2301, Paragraph E)

Immunization

Students who were born after January, 1957, and who were not immunized after 1968 are urged to seek immunization for measles/rubella to safeguard their health and to prevent illness that could interrupt their educational plans.

Students transferring to one of the three state universities must have up-to-date immunization records.

All Arizona State Universities require immunization for admittance.

College Safety Regulations

Emergencies

In the event of emergencies on campus, contact the College Safety department at (480) 732-7280 on the Pecos Campus or (480) 988-8888 on the Williams Campus.

Call 911 in the event of a medical emergency.

Identification

College Safety personnel are authorized to ask any person on campus for proper identification, should the need arise. Students failing or refusing to identify themselves properly will be:

- Asked to leave the campus (if conduct or behavior warrants such action), and
- 2. Reported to the Dean of Students.

Weapons

All firearms, explosives, knives, or instruments that can be construed as dangerous weapons are prohibited on campus. Only certified peace officers are permitted to carry firearms at the college. All persons bringing firearms or other weapons for classroom demonstrations or any other academic reason are required to bring them to the College Safety department for examination.

Motor Vehicles

The administration of college regulations governing motor vehicles operated by CGCC students shall be under the jurisdiction of the college administration.

Vehicle Damage or Loss

Chandler-Gilbert Community College assumes no responsibility for damage to motor vehicles, or for any loss while vehicles are parked or operated on or near the campus.

Vehicle Registration

Every student, faculty or staff member who owns or drives a motor vehicle on campus is required to register it and any other vehicles that may be used on campus with the College Safety department. Persons who purchase or trade their vehicles must register new vehicles.

An out-of-state/out-of-country student or college employee who operates or parks a motor vehicle on college property must sign an affidavit at the time of registration certifying that the vehicle complies with A.R.S. 49-542 relating to vehicle emission testing. Vehicles which do not comply with A.R.S. 49-542 will not be granted a permit.

Vehicles must be registered in person at the College Safety department in Building M, Room 105, at the Pecos Campus and in the Aviation and Technology Center at the Williams Campus.

College Traffic Regulations

The following college traffic regulations are applicable to all members of the college community, including students, faculty, staff, and visitors:

- 1. Maximum speed limit on campus is 15 m.p.h.
- Students, faculty, and staff members who operate a motor vehicle on campus must register their vehicle with the College Safety Department and display the sticker in accordance with current regulations.
- 3. Drivers must observe and comply with stop signs, pavement arrows, right-turn-only signs,

- and other traffic control devices. All vehicles must stop at marked crosswalks to yield to pedestrian traffic within the crosswalks.
- Persons driving on campus must follow directions given by College Safety officers and furnish student or other identification when so required.
- 5. Vehicles may be parked only in those spaces designated for a particular sticker.
- 6. Students may park in any parking space except those marked Visitors, Handicapped, Maintenance, Employees, No Parking, or any area with a red or yellow curb.
- Persons having a Handicapped sticker on their vehicle may use any marked space on the campus, including those marked Handicapped, except those areas with red or yellow curbs.
- No vehicle other than an emergency vehicle may be parked along red curbs or in striped areas. These are fire-hazard and safety zones, and violators will be towed away without warning at the owner's expense.
- No vehicle may be parked in driveways, where signs indicate No Parking, or in areas not specifically marked for parking.
- Visitors may use student zones on a temporary basis. Visitor permits may be obtained from the College Safety department.

- 11. In angled parking spaces, no vehicle may be parked in a direction opposite the normal direction of traffic.
- 12. Parking of motorcycles, mopeds and bicycles:
 - Students are urged to exercise care in securing their personal property, including motor vehicles, bicycles, mopeds, and motorcycles.
 - b. Motorcycles and mopeds may be parked only on crossbars. Bicycles must be parked in existing bike racks only. Mopeds, bicycles, and/or motorcycles that are found chained or affixed to trees, buildings, or light posts are subject to having their chains cut and being removed to the College Safety department. Owners will be responsible for the cost of the lock or cut chain.

Traffic Violation Penalties

Violation of traffic regulations will result in a citation and a fine being issued. In the case of parking violations, repeaters' vehicles may be towed away at their owner's expense.

All monetary fines shall be paid to the college cashier in the Cashier/Fiscal office. Payment may be made in person or by mail. Failure to pay or appeal a citation within 15 working days of date of issue will result in the fine being doubled. In order to insure due process, fines may be appealed to the Dean of Student Services, located in the Student Center, Room SC150, on the Pecos Campus.

Dress Code

Students are expected to dress appropriately and in good taste at all times while on campus, in the classroom, or in the Student Center. Students are required to wear some type of shirt in addition to other normal apparel. State Health Department laws and college policy require that all students wear shoes.

If, in the opinion of the faculty or staff member, any student's dress, manner, appearance, or conduct distracts, disrupts or interferes in any way with the classroom procedures or the educational processes, the violator may be asked to leave the classroom or the campus. The violator may not return until the condition is corrected or the case is reviewed by the proper authorities.



Student Policies and Procedures





Important Student Information

Sexual Harassment (Employee & Student)

Refer to Student Policies and Procedures. More information is available in the Office of the Dean of Student Services.

Equal Opportunity Statement

More information is available in the Office of the Dean of Student Services.

Student Insurance

More information is available in the Office of the Dean of Student Services.

Americans with Disabilities Act

More information is available in the Office of the Dean of Student Services.

Student Conduct

Refer to Student Policies and Procedures. More information is available in the Office of the Dean of Student Services.

Student Employment & Student Grievance

More information is available in the Financial Aid Office or the bulletin board in Building B, classroom wing.

Canvassing, Peddling, Soliciting

Approval must be obtained at Chandler-Gilbert Community College by contacting the Office of Student Life.

Parking and Traffic Regulations

More information is available in the College Safety Office.

Diversity Policy

The Maricopa District is committed to integrating diversity into its processes, policies, procedures, programs, services, curriculum, workforce, and student population so that the organizational climate is one which respects and celebrates our diverse communities

Diversity Values Statement

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.

Discrimination Complaint Procedures for Students

This procedure provides a means for resolving complaints by students who believe they have been adversely affected by illegal or MCCCD-prohibited discrimination by the college/center, MCCCD, or their students or employees.

Complaints may be brought under this procedure for discrimination based on race, color, religion, national origin, sex (including pregnancy discrimination and sexual harassment), sexual orientation, age, Vietnamera veteran status, and physical or mental disability.

Informal Resolution of Discrimination Complaints

Before filing a formal complaint under this procedure, a student may attempt to resolve the problem through informal discussions with the person claimed to be responsible for the discriminatory action, that person's supervisor or department head. The student may choose to ask the Dean, Associate Dean or Director of Student Services to assist in the informal resolution process.

Attempts to informally resolve alleged discrimination should occur within ninety (90) calendar days of the alleged discriminatory act.

Once the complaint is informally resolved, a summary of the allegations and the final resolution shall be forwarded to the Office of General Counsel within five (5) working days.

For complaints dealing with alleged discrimination beyond the 90-day timeframe, a student must submit a written complaint under the formal resolution procedure of this policy.

If the complaint cannot be informally resolved to the satisfaction of the complainant, the complainant has the right to file a written complaint within 180 days of the alleged discriminatory act and to proceed under formal resolution procedures.

Formal Resolution of Discrimination Complaints

A student (part- or full-time) who contends that unlawful or MCCCD-prohibited discrimination has occurred, may file a formal complaint by contacting the Dean, Associate Dean or Director of Student Services or his or her designee at each respective college. These officials will accept complaint filings within 180 calendar days of the occurrence of the alleged discriminatory event.

A complaint must be signed by the student and filed on the form prescribed by the Office of General Counsel. A student may also contact the Office of General Counsel to obtain the name and phone number of the campus official designated to respond to discrimination complaints.

The complaint must identify the action, decision, conduct, or other basis that constituted an alleged act or practice of unlawful or MCCCD-prohibited discrimination. The complaint must also allege that the action, decision, or occurrence was taken or based on the complainant's race, color, religion, sex, sexual orientation, national origin, citizenship, age (over 40), disability, Vietnam-era veteran status, or any other unlawful discriminatory grounds.

Upon receipt of a complaint, the receiving official will notify the college president or provost and the Office of General Counsel. The Office of General Counsel will assign a case number to the complaint.

A copy of the complaint (or a summary of the allegations) will be shared with the respondent within five (5) working days of receipt by the receiving official (Dean of Students, etc.). Respondent will be put on notice that retaliation against the complainant or potential witnesses will not be tolerated and that an investigation will be conducted by the Dean, Associate Dean or Director of Student Services under the guidance of the Office of General Counsel.

Respondent must provide a written response to the complaint within fifteen (15) calendar days of his or her receipt of the complaint.

After accepting a complaint, the Dean, Associate Dean or Director of Student Services will conduct a fact-finding investigation which will include, at a minimum, a review of written evidence (including the complaint and response), and interviews with appropriate employees and students. Upon completion of the investigation, the Dean, Associate Dean or Director of Office of General Counsel.

The Dean, Associate Dean or Director of Student Activities will submit its findings and recommendations to the president or provost within ninety (90) calendar days of receipt of the complaint.

The president or provost will accept, reject, or modify the recommendations and will provide a written notification of his or her action to the parties within fifteen (15) calendar days of receiving the findings from the Dean, Associate Dean, or Director of Student Services.

When the investigation confirms the allegations, appropriate corrective action will be taken. Appropriate corrective action is determined solely by MCCCD, the college or center and, with the exception of academic suspension or dismissal, cannot be appealed.

Evidence which is collateral to the allegations of discrimination and/or sexual harassment and which was obtained during an investigation under these procedures, may be used in subsequent grievance or disciplinary procedures.

Within ten (10) working days of the conclusion of the investigation, the college will forward the investigatory file to the Office of General Counsel.

MCCCD Administrative Review Process: Request for Reconsideration

A complainant or respondent who is not satisfied with the decision of the president or provost has ten (10) working days to request, in writing, administrative review of the decision, by his or her college president or provost.

The request for administrative review must state specific reasons why the complainant or respondent believes the finding was improper.

The president or provost will review the finding and respond to the request within ten (10) working days from receipt of the request.

If the president or provost determines that the decision is not supported by the evidence, the case file will be reopened and assigned for further investigation.

If the president or provost determines that the investigation was thorough and complete, he or she will deny the request for administrative review. At this point, the complainant has exhausted the Internal Discrimination Complaint Procedure.

Maintenance of Documentation

Documentation resulting from each level in the Discrimination Complaint Procedure (including witness statements, investigative notes, etc.) will be forwarded to and maintained by the MCCCD Office of General Counsel. Investigative records are not to be maintained with or considered as a part of a student record. Documentation regarding corrective action is considered part of the student's record.

Right to Representation

A complainant or respondent may be represented by another person at any stage of a complaint filed under this Discrimination Complaint Procedure.

Confidentiality of Proceedings

Every effort will be made by the college and MCCCD to protect the confidentiality of the parties during the processing of complaints under this procedure. Records will be maintained in a confidential manner to the extent permitted by law and insofar as they do not interfere with MCCCD's legal obligation to investigate and resolve issues of discrimination.

Retaliation Prohibited

Retaliation against a person who has filed a complaint or against any witness questioned during an investigation, is strictly prohibited. Any retaliatory action by instructors, supervisors, managers, academic professionals, administrators, or other employees who have the authority to take adverse action against a complainant or witness is prohibited and may be grounds for disciplinary action up to and including termination of employment.

False Statements Prohibited

Any individual who knowingly provides false information pursuant to filing a discrimination charge or during the investigation of a discrimination charge, will be subject to appropriate discipline, up to and including, termination.

External Filing of Discrimination Complaints

Office for Civil Rights, Region VIII (OCR)
Denver Office
U.S. Department of Education

Federal Building

1244 Speer Boulevard, Suite 310 Denver, Colorado 80204-3582

Phone: 303-844-5695 Fax: 303-844-4303

E-mail: OCR_Denver@ed.gov

Canvassing and Peddling

In process by MCCD's Legal Department. Approval can be obtained at Chandler-Gilbert Community College by contacting the Office of Student Life, (480-732-7150).

Student Rights and Responsibilities

Copyright Act Compliance (AR 2.4.5)

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. In order to assist students in complying with the Copyright Law, appropriate notices shall be placed on or near all equipment capable of duplicating copyrighted materials.

Copyright Regulation (AR 3.2)

A. It is the intent of the Governing Board of the Maricopa County Community College District to adhere to the provisions of the U.S. Copyright Law (Title 17, United States Code, Section 101, et seq.). Though there continues to be controversy regarding interpretation of the Copyright Law, this policy represents a sincere

- effort by the Board to operate legally within the District.
- B. The Governing Board directs the Chancellor or his designee(s) to develop and distribute to employees guidelines that (1) clearly discourage violation of the Copyright Law and (2) inform employees of their rights and responsibilities under the Copyright Law.
- C. Each college president or provost and the Chancellor shall name an individual(s) at each district location who will assume the responsibilities of distributing copyright guidelines, act as a resource person regarding copyright matter and provide training programs on current copyright laws.

- D. Employees are prohibited from copying materials not specifically allowed by the (1) Copyright Law, (2) fair use guidelines, (3) licenses or contractual agreements, or (4) other permission.
- E. The Governing Board disapproves of unauthorized duplication in any form. Employees who willfully disregard this Board policy and/or the aforementioned copyright guidelines do so at their own risk and assume all liability for their actions.
- F. In order to assist employees and students in complying with the Copyright Law, appropriate notices shall be placed on or near all equipment capable of duplicating copyrighted materials.

Taping of Faculty Lectures (AR 3.4)

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 (audio/visual) their classes.

Each faculty member shall inform his/her students within the first week of classes to his/her policy with regard to taping. Failure to do so will accord students the right to tape lectures.

Students with disabilities that render them unable to take adequate lecture notes are entitled to reasonable accommodation to remedy this inability. Accommodation may require a faculty member to exempt a student from his/her taping policy.

Computing Resource Standards (AR 4.4)

Introduction

The Maricopa Community Colleges provide its students and employees wide access to information resources and technologies. With the advent of new forms of technology, Maricopa Community Colleges have recognized that the free exchange of opinions and ideas essential to academic freedom is furthered by making technological resources more accessible.

At Maricopa, technological resources are shared by its users; misuse of these resources by some users infringes upon the opportunities of all the rest. As Maricopa is a public institution of higher education, however, the proper use of those resources is all the more important. That Maricopa makes its technology available for educational purposes requires users

to observe Constitutional and other legal mandates whose aim is to safeguard equipment, networks, data and software that are acquired and maintained with public funds.

General Responsibilities

Computing resources (including, but not limited to, desktop and laptop systems, printers, central computing facilities, District-wide or college-wide networks, local-area networks, access to the Internet, electronic mail and similar electronic information) of the Maricopa Community Colleges are available only to authorized users, and any use of those resources is subject to these Standards. All users of Maricopa's computing resources are presumed to have read and understood the Standards. While the Standards govern use of computing resources District-wide, an individual community college or center may establish guidelines for computing resource usage which supplement (but do not replace or waive) these Standards.

Use of Maricopa's computing resources, including websites created by employees, is limited to educational, research, service, operational, and management purposes of the Maricopa Community Colleges.

It is not Maricopa's practice to monitor the content of electronic mail transmissions, files, or other data maintained in its computing resources. The maintenance, operation and security of Maricopa's computing resources, however, require that network administrators and other authorized personnel have access to those resources and, on occasion, review the content of data and communications maintained there. A review may be performed exclusively by persons expressly authorized for such purpose and only for cause. To the extent possible in the electronic environment and in a public setting, a user's privacy will be honored. Nevertheless, that privacy is subject to Arizona's public records laws and other applicable state and federal laws, as well as policies of Maricopa's Governing Board, all of which may supersede a user's interests in maintaining privacy in information contained in Maricopa's computing resources.

Frequently, access to Maricopa's computing resources can be obtained only through use of a password known exclusively to the user. It is the user's responsibility to keep a password confidential. While Maricopa takes reasonable measures to ensure network security, it cannot be held accountable for unauthorized access to its computing resources by other users, both within and outside the Maricopa

Community Colleges. Moreover, it cannot guarantee users protection against loss due to system failure, fire, etc.

Much of the data contained in Maricopa records that are accessible through use of computing resources is confidential under state and federal law. That a user may have the technical capability to access confidential records does not necessarily mean that such access is authorized. A user of Maricopa's computing resources is prohibited from the unauthorized access to, or dissemination of, confidential records.

Maricopa personnel are discouraged from offering advice to Maricopa employees regarding personal, non-job-related use, maintenance or repair of any computer equipment or software that belongs to such employees. Maricopa can assume no responsibility for any result from such advice.

Violation of any provision of the Standards could result in immediate termination of a user's access to Maricopa's computing resources, as well as appropriate disciplinary action. A violation of the Standards should be reported immediately to the appropriate administrator.

Prohibited Conduct

The following is prohibited conduct in the use of Maricopa's computing resources:

- Posting to the network, downloading or transporting any material that would constitute a violation of Maricopa County Community College District contracts.
- 2. Unauthorized attempts to monitor another user's password protected data or electronic communication, or delete another user's password protected data, electronic communications or software, without that person's permission.
- 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.
- 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.
- Use of computing resources for non-Maricopa commercial purposes.

- 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.
- Activities that would constitute a violation of any policy of Maricopa's Governing Board, including (but not limited to) Maricopa's nondiscrimination policy and its policy against sexual harassment.
- 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.
- 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.

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:

- 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.
- 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.
- 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.

Hazing Prevention Regulation (AR 2.6)

The Maricopa County Community College District (MCCCD) strives 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 of: education, students, employees, excellence, diversity, honesty and integrity, freedom, fairness, responsibility and public trust.

Central to the vitality and dignity of our community of learners is an environment that produces broadly educated responsible citizens, who are prepared to serve and lead in a free society. Academic instruction, co-curricular activities and community involvement come together to meet this goal. All members of the Maricopa Community Colleges' community, through the best of their abilities, must be provided the opportunity to contribute in a safe, orderly, civil and positive learning environment. One factor that inhibits the achievement of the above stated purpose is the practice of hazing.

- Hazing by any student, employee or other person affiliated with the Maricopa Community Colleges is prohibited.
- 2. "Hazing" is defined as any intentional, knowing or reckless act committed by a student or other person in any MCCCD college or affiliated educational setting, whether individually or in concert with other persons, against another student, and in which both of the following apply:
 - The act was committed in connection with an initiation into, an affiliation with or the maintenance of membership in any club/organization that is affiliated with Maricopa Community Colleges; and,

- The act contributes to a substantial risk of potential physical injury, mental harm or personal degradation, or causes physical injury, mental harm or personal degradation.
- Any solicitation to engage in hazing is prohibited
- 4. Aiding and abetting another person who is engaged in hazing is prohibited.
- Victim consent is not a defense for violation of the Maricopa Community Colleges Hazing Prevention Regulation.
- All students, faculty and staff must take reasonable measures within the scope of their individual authority to prevent violations of the Maricopa Community Colleges Hazing Prevention Regulation.
- Hazing activities and situations include, but are not limited to, the following:
 - a. Pre-pledging, illegal pledging or underground activities.
 - b. Acts of mental and physical abuse, including, but not limited to: paddling, slapping, kicking, pushing, yelling, biting, duckwalking, line-ups, tuck-ins, belittling, excessive exercise, beating or physical abuse of any kind, and the potentially forced consumption of any food or beverage that contributes to or causes physical injury, mental harm or personal degradation.
 - c. Sleep deprivation (activities that deprive prospective and/or current students and/or members of the opportunity of a minimum of six hours sufficient sleep each day).
 - Encouraging or forcing use of alcohol or drugs.
 - e. Any type of student club/organization scavenger hunt, quest, road trip or activity that would physically or psychologically endanger prospective and/or current students and/or members or others.
 - f. Stroking or physically touching in an indecent or inappropriate manner. See Sexual Harassment policy 5.1.8
 - g. Student club/organization activities that subject prospective and/or current students and/or members or others to public nuisance or spectacle.
 - Aiding or abetting theft, fraud, embezzlement of funds, destruction of public, per-

- sonal or private property, or academic misconduct.
- Being required to wear odd or look-alike apparel that contributes to or causes physical injury, mental harm or personal degradation
- Personal services that contribute to or cause physical injury, mental harm or personal degradation.
- 8. Alleged violations of this regulation by students or student organizations can be reported to the dean of students' office for investigation by any member of the college community. The dean of students' office will investigate the complaint in accordance with the student disciplinary code, all other college and Maricopa Community Colleges policies, and local and state laws.

Alleged violations of the Maricopa Community Colleges hazing prevention regulation or interference with an investigation under this regulation by students or student organizations are subject to sanctions under the student disciplinary code.

The student disciplinary code shall govern all proceedings involving such a complaint. Decisions arrived at as outcomes of the proceedings shall be final, pending the normal appeal process.

 Alleged violations of the Maricopa Community Colleges hazing prevention regulation by any faculty or staff member can be reported to the dean of students' office for investigation by any member of the college community. The dean of students' office will investigate the complaint in accordance with college and Maricopa Community Colleges policies, and local and state laws.

Any Maricopa Community Colleges faculty or staff member who knowingly permitted, authorized or condoned the alleged hazing activity is subject to disciplinary action in accordance with college and Maricopa Community Colleges policies, and local and state laws.

10. If the dean of students' office receives a report or complaint of an alleged hazing activity involving physical injury, threats of physical injury, intimidation, harassment or property damage, or any other conduct that appears to violate Arizona state law, the college will report such conduct to the appropriate college safety office. The said

- college safety office will investigate, respond to and report on the alleged hazing activity in accordance with all college, district, local, state and federal guidelines, policies and laws.
- 11. Should the proceedings outlined above substantiate an occurrence of hazing activity—where students or student organizations knowingly permitted, authorized or condoned the hazing activity—the college can recommend the following sanctions against student clubs/organizations:
 - a. Censure: Censure can include the required completion of a program designed with the intent of eliminating the hazing activity. The programs will be devised with the cooperation of all involved parties and monitored by the dean of students' office.
 - b. Probation: The student club(s)/organization(s) will be placed on probation for a specified period of time. Conditions of probation will be determined by the dean of students' office and outlined in writing to the student club(s)/organization(s). The probationary term will be monitored by the dean of students' office.
 - c. Suspension: The student club(s)/organization(s) will be suspended. The terms of the suspension can be defined in the sanction, including criteria the student club(s)/organization(s) must meet within a specified time to be considered for admission or renewal of college recognition status.
 - d. Revocation: The student club(s)/organization(s) will have its status revoked, with the loss of all college associations, recognitions and privileges. The national or international office of an organization, if so affiliated, will be requested to revoke the charter of an organization.
- 12. The Maricopa Community Colleges hazing prevention regulation is not intended to prohibit or sanction the following conduct:
 - a. Customary athletic events, contests or competitions that are sponsored by any of the Maricopa Community Colleges.
 - Any activity or conduct that furthers the goals of a legitimate educational curriculum, a legitimate co-curricular experience or a legitimate military training program.

13. For the purposes of the Maricopa Community Colleges hazing prevention regulation: "Organization" is defined as an athletic team, association, order, society, corps, cooperative, club or other similar group that is affiliated with Maricopa Community Colleges, whose membership consists primarily of students enrolled at Maricopa Community Colleges and that may also be classroom-related or co-curricular in nature.

Abuse-Free Environment (AR 2.4.7)

A. Substance Abuse/Misuse Statement

Drug abuse and misuse has become a national issue and is receiving national attention, particularly in the academic community. The insidious effects of the abuse of these agents are also felt by all walks of life and economic levels. Therefore, as an education providing institution, we are responsible to provide knowledge and guidelines about prevention, control, and treatment of the abuse/misuse of alcohol, illegal and legal drug uses and misuses.

This policy statement has been constructed on the belief that higher education has a responsibility to face safety and health factors of substance abuse/misuse issues forthrightly and innovatively. We believe that the community college needs to adapt programs applicable to their community as well as to our individual student's needs. The policy statements should be comprehensive, understood by those expected to comply, realistic and enforceable, consistently applied, and cover foreseeable dangers.

Construction of this statement has been founded on concerns of individual safety, educational quality, and legal liability. It is recognized that each individual is responsible for his/her actions and must be afforded an opportunity to develop knowledge, skills and talent, and be willing to share community responsibilities. The Maricopa Community College District has an equal "duty to care" responsibility and a commitment to substance abuse/misuse education for all students and employees.

The Maricopa Community College District shall:

- Visibly demonstrate a performance of the Maricopa Community College District "duty to care."
- 2. Comply with requirements for federal funds.
- Describe what the college does about substance abuse/misuse (alcohol, drugs, anabolic steroids).
- Inform/educate members of the academic community of adverse effects of these substances.
- Inform/educate the academic community about the policies concerning substance misuse and abuse.
- Discourage illegal drug abuse and legal substance misuse.
- 7. Provide individual and group counseling
- 8. Provide assistance and guidance to obtain treatment and rehabilitation of any identified problem.

To achieve these objectives, the program must provide an environment capable of:

- 1. Developing and implementing substance misuse/abuse prevention programs.
- 2. Providing educational training and prevention programs for the college and community it serves.
- 3. Providing timely and accurate information dissemination.
- 4. Establishing supportive counseling programs as needed.
- 5. Establishing a strong on-going evaluation of services.
- Providing assistance to obtain treatment and rehabilitation of substance abuse/misuse.
- 7. Clarifying the college regulations for control of alcohol and drug use.
- Providing procedures that the college will follow to correct and stabilize emergency situations.

Each college will identify key people to provide emergency services and to contact and work with outside agencies.

The Maricopa Community College
District is committed to establishing a preventative substance abuse program at each
college designed to affect positively the
problems of irresponsible use of alcohol and
the use and abuse of illegal substances. A
main focus of the program will be on education of the campus community and assistance to individuals.

The Maricopa Community College District fully supports disciplinary action for misconduct and the enforcement of state laws governing the use of alcohol and the use, abuse, possession or distribution of controlled substances or illegal drugs.

B. Student Program to Prevent Illicit Use of Drugs and Abuse of Alcohol

1. Introduction and Purpose

The recent adoption by Congress of the Drug Free Schools and Communities Act amendments of 1989 (Public Law 101-226) requires federal contractors and grantees to certify that they will provide a drug-free school. As a recipient of federal grants, the District must adopt a program toward accomplishing this goal. While federal legislation has been the impetus for creation of the program, the administration and Governing Board recognize that substance abuse is a problem of national proportions that also affect students at Maricopa Community Colleges. Based upon that concern, it is intended that this program on prevention of alcohol and drug abuse on college campuses will go beyond the strict dictates of the law and will serve as a comprehensive educational and resource tool.

The Maricopa Community Colleges are committed to maintaining learning environments that enhance the full benefits of a student's educational experience. The Maricopa 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 Maricopa Community Colleges, in conjunction with this program, is to educate students about positive self-development, the benefits of a healthy lifestyle and the

health risks associated with substance abuse.

The purpose of this program is to:

- Ensure that the Maricopa Community Colleges working and learning environment for students and the public is safe, orderly and free of illegal activity.
- Comply with the Drug-Free School and Communities Act of 1989, and other relevant substance abuse laws.
- Provide students with access to appropriate treatment and rehabilitation
 assistance for problems associated with substance use or abuse.

2. Standards of Conduct

In the student handbooks of the Maricopa Community Colleges under codes of conduct, the following are examples of behavior that is prohibited by law and/or college rules and policies:

- a. Drinking or possession of alcoholic beverages on the college campus.
- b. Misuse of narcotics or drugs.
- Sanctions for Violation of Standards of Conduct

Disciplinary actions include, but are not limited to:

- a. Warning,
- b. Loss of privileges,
- c. Suspension, or
- d. Expulsion.
- Legal Consequences of Alcohol and Other Drugs
 - a. Laws Governing Alcohol The State of Arizona sets twenty-one 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 (DWI). Drivers charged with DWI 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 or breath alcohol concentration

of 0.10 or more will have his/her license or permit to drive suspended or denied for not less than ninety consecutive days. The punishment for DWI ranges from not less that twenty-four consecutive hours in jail and a 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.

 Federal Penalties and Sanctions for Illegal Possession of a Controlled Substance

First conviction: Up to one year imprisonment and fined at least \$1,000 but not more than\$100,000, or both.

After one prior drug conviction: At least fifteen days in prison, not to exceed two years and fined at least \$2,500 but not more than \$250,000, or both.

After two or more prior drug convictions: At least ninety days in prison, not to exceed three years and fined at least \$5,000 but not more than \$250,000, or both.

Special sentencing provisions for pos-

session of crack cocaine: Mandatory at least five years in prison, not to exceed twenty years and fined up to \$250,000, or both, if:

- First conviction and the amount of crack possessed exceeds five grams.
- Second conviction and the amount of crack possessed exceeds three grams.
- Third or subsequent crack conviction and the amount of crack possessed exceeds one gram.

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 re: crack)

Forfeiture of vehicles, boats, aircraft or any other conveyance used to transport or conceal a controlled substance.

Civil fine of up to \$10,000 (pending adoption of final regulations).

Denial of Federal benefits, such as student loans, grants, contracts, and professional and commercial licenses, up to one year for first offense, up to five years for second and subsequent offenses.

Ineligible to receive or purchase a firearm.

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.

Note: These are only Federal penalties and sanctions.

- c. State Penalties and Sanctions
 Title Thirteen, Chapter 34 of the
 Arizona Revised Statutes lists drug
 offenses and their penalties. Following
 is list of drugs that are frequently misused with a description of the potential
 penalties attached to a conviction.
 - 1) Marijuana: A first offense for possession or use of marijuana in an amount of less that 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 seven hundred fifty dollars. The sale of marijuana in an amount of less that one pound carries a prison sentence of four years and a fine of at least seven hundred fifty dollars.
 - LSD: Possession, use and sale of LSD are felonies carrying sentences from four to five years and fines of not less that one thousand dollars.
 - 3) Heroin and Cocaine: Possession, use and sale of heroin are felonies carrying sentences from four to seven years and a fine of not less that two thousand dollars.

C. Alcoholic Beverages - Usage Regulation (AR 4.13)

1. No alcoholic beverage is allowed on or in the premises owned (by the State) and/or leased/rented by the Maricopa Community Colleges for District-approved educational purposes, except as provided herein.

- No purchase of alcoholic beverages is allowed from any funds under the jurisdiction of the Governing Board of the District.
- 3. Lawful occupants of residential housing under the jurisdiction of the Governing Board, if over the age of 21 years and not otherwise lawfully barred from such practice, may possess and consume alcoholic beverages in the privacy of their respective leased housing facility. Guests of such occupants over the age of 21 years shall have the same privilege. No alcohol is permitted in public areas (nor common areas of a dormitory) at any time.
- 4. The personal or individual purchase of alcoholic beverages by individuals attending District approved functions held in places serving alcoholic beverages is a personal and individual responsibility. Administrative discretion shall be exercised in the approval of the location of such activities, as such decision pertains to the nature of the group involved.

D. Other Health Concerns

General Guidelines Concerning 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.

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.

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 through the Office of Disabled Resources and Services or the Office of Dean of Student Services.

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 Disabled Resources and Services and/or the Dean of Student Services for the types of services available in the district or community on matters regarding AIDS or the HIV virus.

Academic Misconduct (AR 2.3.11)

A. Definitions

- Academic Misconduct includes misconduct associated with the classroom, laboratory or clinical learning process. Some examples of academic misconduct are cheating, plagiarism, and excessive absences.
- 2. Cheating includes, but is not limited to, (a) use of any unauthorized assistance in taking quizzes, tests, assessment tests or examinations; (b) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; or (c) the acquisition, without permission, of tests or other academic material belonging to a member of the college faculty or staff.
- 3. Plagiarism includes, but is not limited to, the use of paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials.

B. Sanctions

Any student found by a faculty member to have committed academic misconduct is subject to the following sanctions:

- Warning A notice in writing to the student that the student has violated the academic code.
- Grade Adjustment Lowering of a test, assignment or academic misconduct has occurred but is confronted with facts that rebut that belief to the extent that reasonable doubt occurs, the disciplinary due process procedures should be invoked to determine guilt or innocence.

C. Appeal of Sanctions for Academic Misconduct

Students can appeal sanctions imposed for academic misconduct by following the student grievance process.

Disciplinary Standards

A. Disciplinary Probation and Suspension (2.5.1)

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 mediation, guidance, admonition and example. However, when these means fail to resolve problems of student conduct and responsibility, appropriate disciplinary procedures will be followed.

Misconduct for which students are subject to disciplinary action falls into the general areas of:

- Cheating on an examination, assessment tests, 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.

B. 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 department/division chair and 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.

Student Disciplinary Code (AR 2.5.2)

Purpose

The purpose of this policy is to help ensure a healthy, comfortable and educationally productive environment for students, employees and visitors.

Article I: Definitions

The following are definitions of terms or phrases contained within this document:

- A. "College" means Maricopa Community
 Colleges or a designated college or center.
 "College president" also refers to center provost.
- B. "Student" means any person taking courses at the college whether full-time or part-time. Persons who are not officially enrolled for a particular term but who have a continuing relationship with the college are considered "students."
- "Faculty member" means any person hired by the college or District to conduct classroom instruction.
- D. "College official" means any person employed by the college or District, performing assigned administrative or professional responsibilities pursuant to this Student Code. The college president/provost shall designate the college official to be responsible for the administration of the Student Code.
- E. "College community" means students, faculty members, college officials or any other persons employed by the college. A person's status in a particular situation shall be determined by the college president.

- F. "College premises" means all land, buildings, facilities and other property in the possession of or owned, used or controlled by the college or District.
- G. "Organization" means a group that has complied with the formal requirements for college recognition.
- H. "Judicial body" means any person or persons authorized by the college president/provost to determine whether a student has violated this Student Code and to recommend imposition of sanctions.
- I. "Judicial advisor" means a college official authorized on a case by case basis by the college president/provost to impose sanctions upon students found to have violated this Student Code. The college president/provost may authorize a judicial advisor to serve simultaneously as a judicial advisor and the sole member or one of the members of a judicial body. Nothing shall prevent the college president/provost from authorizing the same judicial advisor to impose sanctions in all cases.
- J. "Appellate boards" means any person or persons authorized by the college president/provost to consider an appeal from a judicial body's determination that a student has violated this Student Code or from the sanctions imposed by the judicial advisor. Nothing shall prevent the college president/provost from acting as the appellate board.
- K. The term "shall" is used in the imperative sense.
- L. The term "may" is used in the permissive sense.
- M. The term "policy" is defined as the written regulations of the college and/or District as found in, but not limited to, this Student Code and Governing Board policy.

Article II: Judicial Authority

- A. The college president/provost shall determine the composition of judicial bodies and appellate boards and determine which judicial advisor, judicial body and appellate board shall be authorized to hear each case.
- B. The judicial advisor shall develop procedures for the administration of the judicial program and rules for the conduct of hearings that are consistent with provisions of this Student Code.

C. Decisions made by the judicial advisor shall be final, pending the normal appeal process.

Article III: Prescribed Conduct

A. Jurisdiction of the College

Generally college jurisdiction and discipline shall be limited to conduct which occurs on college/center premises and/or during college sponsored or supervised activities, or which adversely affects the college community and/or pursuit of its objectives.

B. Conduct - rules and regulations

Any student found to have committed the following misconduct is subject to the disciplinary sanctions outlined in Article IV:

- 1. Acts of dishonesty, including but not limited to the following:
 - a. Furnishing false information to any official, college employee or office.
 - Forgery, alteration or misuse of any college document, record or instrument of identification.
 - Tampering with the election of any college-recognized student organization.
- Disruption or obstruction of teaching, research, administration, disciplinary proceedings or college activities, including its public service functions on or off campus, or other authorized non-college activities, when the act occurs on college premises.

An instructor may remove a student from a class meeting 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.

- Physical abuse, verbal abuse, threats, intimation, harassment, coercion and/or conduct which threatens or endangers the health or safety of any person.
- Attempted or actual theft of and/or damage to property of the college or property of a member of the college community or other personal or public property.

- 5. Failure to comply with direction of college officials or law enforcement officers in the performance of their duties and/or failure to identify one's self to these persons when requested to do so.
- Unauthorized possession, duplication or use of keys to any college premises, or unauthorized entry to or use of college premises.
- 7. Violation of published Governing Board policy, college rules or regulations.
- Violation of federal, state or local law on college/center premises or at college-sponsored or supervised activities.
- Use, possession, or distribution of narcotic or other controlled substances except as expressly permitted bylaw.
- 10. Use, possession or distribution of alcoholic beverages or public intoxication.
- 11. Illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals on college premises.
- 12. Participation in a college demonstration that disrupts the normal operations of the college and infringes on the rights of other members of the college community; leading or inciting others to disrupt scheduled and/or normal activities within any college building or area; intentional obstruction that unreasonably interferes with freedom of movement, or either pedestrian or vehicular, on campus.
- Obstruction of the free flow of pedestrian or vehicular traffic on college premises or at college sponsored or supervised activities.
- 14. Conduct which is disorderly, lewd or indecent; breach of the peace; or aiding, abetting or procuring another person to breach the peace on college premises or at activities sponsored by or participated in by the college.
- 15. Attempted or actual theft or other abuse of computer time, including but not limited to:
 - Unauthorized entry into a file, to use, read or change the contents or for any other purpose
 - b. Unauthorized transfer of a file

- c. Unauthorized use of another user's identification and password
- d. Use of computing facilities to interfere with the work of another student, faculty member or college official
- e. Use of computing facilities to send obscene or abusive messages
- f. Use of computing facilities to interfere with normal operation of the college computing system
- g. Use of computing facilities for students' personal benefit
- 16. Abuse of the judicial system, including but not limited to:
 - Falsification, distortion or misrepresentation of information before a judicial body
 - Disruption or interference with judicial proceedings
 - c. Institution of a judicial proceeding knowingly without cause
 - d. Attempting to discourage an individual's proper participation in, or use of, the judicial system
 - e. Attempting to influence the impartiality of the member of a judicial body prior to, and/or during the course of, the judicial proceeding
 - f. Harassment, either verbal or physical, and/or intimidation of a member of a judicial body prior to, during and/or after a judicial proceeding
 - g. Failure to comply with the sanctions imposed under this Student Code
 - Influence or attempting to influence another person to commit an abuse of the judicial system
- C. Violation of Law and College Discipline
 - 1. When a student is charged only with an off-campus violation of federal, state or local laws but not with any other violation of this Student Code, disciplinary action may be taken and sanctions imposed for grave misconduct which demonstrates flagrant disregard for the college community. In such cases, no sanction may be imposed unless the student has been found guilty in a court of law or has declined to confess such charges, although not actually admitting guilt, e. g., "no contest" or "nolo contendere."

- 2. College disciplinary proceedings may be instituted against a student charged with violation of a law which is also a violation of this Student Code, for example, if both violations result from the same factual situation, without regard to the pendency to civil litigation in court or criminal arrest and prosecution. Proceedings under this Student Code may be carried out before, during, or after civil or criminal proceedings off campus.
- When a student is charged by federal, state or local authorities with a violation of law, the college will not request or agree to special considerations for that individual because of his or her status as a student. If the alleged offense is also a subject of a proceeding before a judicial body under this Student Code, however, the college may advise off campus authorities of the existence of this Student Code and of how such matters will be handled internally within the college community. The college will cooperate fully with the law enforcement and other agencies in the enforcement of criminal law on campus and in the conditions imposed by criminal courts for the rehabilitation of student violators. Individual students and faculty members, acting within their personnel capacities, remain free to interact with governmental representatives as they deem appropriate.

Article IV: Judicial Policies

- A. Charges and Hearings
 - Any member of the college community
 may file charges against any student for his
 conduct under this Student Code. Charges
 shall be prepared in writing and directed to
 the judicial advisor responsible for administration of the college judicial system. Any
 charge should be submitted within thirty
 (30) days of the incident. The judicial advisor will rule on the timeliness of the
 charges.
 - The judicial advisor may conduct an investigation to determine if the charges have merit and/or if they can be disposed of administratively by mutual consent of the parties involved on a basis acceptable to the judicial advisor. Such dispositions shall be final and there shall be no subsequent pro-

- ceedings. If the charges cannot be disposed of by mutual consent, the judicial advisor may later serve in the same matter as the judicial body or a member thereof.
- 3. All charges shall be presented to the accused student in written form. A time shall be set for a hearing, not less than five (5) nor more than fifteen (15) working days after the student has been notified. Maximum time limits for scheduling of hearings may be extended at the discretion of the judicial advisor.
- 4. Hearings shall be conducted by judicial body according to the following guidelines:
 - a. Hearings normally shall be conducted in private.
 - Admission of any person to the closed hearing shall be at the discretion of the judicial body, and/or its judicial advisor.
 - c. In hearings involving more than one accused student, the chairperson of the judicial body, in his or her discretion, may permit the hearing concerning each student to be conducted separately.
 - d. The complainant and the accused shall have the right to be assisted by any advisor they choose, at their own expense. The advisor may be an attorney. Both the complainant and the accused are responsible for presenting their own cases and, therefore, advisors are not permitted to speak or participate directly in any hearing before a judicial body.
 - e. The complainant, the accused, and the judicial body shall have the privilege of presenting witnesses, subject to the right of cross-examination.
 - f. Pertinent records, exhibits, and written statements may be accepted as evidence for consideration by a judicial body at the discretion of the chairperson.
 - g. All procedural questions are subject to the final decision of the chairperson of the judicial body.
 - h. After the hearing, the judicial body (if consisting of multiple members) shall determine by majority vote whether the student violated the designated sections of this Student Code. The judi-

- cial body shall render written findings of fact and conclusions and forward these along with recommended sanctions as outlined in Article IV, Section B to the judicial advisor within three (3) working days of the conclusion of the hearing.
- The judicial body's determination shall be made on the basis of whether it is more likely than not that the accused student violated this Student Code.
- There shall be a single verbatim record, such as a tape recording, of all hearings before the judicial body. The record shall be the property of the college and/or District.
- No student may be found to have violated this Student Code solely because student failed to appear before a judicial body. In all cases, the evidence and support of the charges shall be presented and considered.

B. Sanctions

- 1. The following sanctions may be imposed upon any student found to have violated the Student Code:
 - Warning a written notice to the student that the student is violating or has violated institutional regulations.
 - b. Probation a written reprimand for violation of specified regulations.
 Probation is for a designated period of time and includes the probability of more severe disciplinary sanctions if the student is found to be violating any institutional regulation(s) during the probationary period.
 - Loss of Privileges denial of specified privileges for a designated period of time.
 - d. Restitution compensation for loss, damage or injury.
 - e. Discretionary Sanctions work assignments, service to the college, or other related discretionary assignments.
 (Such assignments must have the prior approval of the judicial advisor).
 - f. College Suspension separation of the student from the college for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified. (College

- suspension applies at all of the Maricopa Community Colleges.)
- g. College Expulsion permanent separation of the student from the college.
 (College expulsion applies at all of the Maricopa Community Colleges)
- 2. More than one of the sanctions listed above may be imposed for any single violation.
- 3. Other than college expulsion, disciplinary sanction shall not be made part of the student's academic record, but shall become part of the student's confidential record. Upon graduation, the student's confidential record maybe expunged of disciplinary actions upon the student's application to the judicial advisor. Cases involving the imposition of sanctions other than suspension or expulsion shall be expunged from the student's confidential record five (5) years after final disposition of the case.
- 4. The following sanctions may be imposed upon groups or organizations:
 - Those sanctions listed above in Section
 B 1. a through d.
 - Deactivation -loss of all privileges, including college recognition for a designated.
- 5. All sanction(s) shall be determined and imposed by the judicial advisor based upon the findings and conclusions of the judicial body. The judicial advisor will consider the recommendations for sanction(s) of the judicial body but will not be bound by its recommendations. The judicial advisor will forward the sanctions s/he determines to be appropriate along with the findings and conclusion to the accused student within two (2) working days after receipt of the judicial body's findings.

C. Interim Suspension

In certain circumstances, appropriate college/center officials may impose an interim suspension prior to the hearing before a judicial body.

- 1. Interim suspension may be imposed only:
 - To insure the safety and well-being of members of the college community or preservation of college property;

- To insure the student's own physical or emotional safety and well-being; or
- If the student poses a definite threat of disruption of or interference with the normal operations of the college.
- During the interim suspension, the student shall be denied access to the college including classes and/or all other activities or privileges for which the student might otherwise be eligible, as the judicial advisor deems appropriate.

D. Appeals

- A decision reached by the judicial body or a sanction imposed by the judicial advisor may be appealed by accused students or complainants to an appeal board within five (5) working days of receipt of the decision. Such appeals shall be in writing and shall be delivered to the judicial advisor or his/her designee.
- An appeal shall be limited to the review of the verbatim record of the initial hearing and supporting documents for one or more of the following purposes:
 - To determine whether the original hearing was conducted fairly and in accordance with this Student Code prescribed procedures
 - To determine whether the decision reached regarding the accused student was conformed with the standard established in Article IV section A #4 i
 - c. To determine whether the sanction(s) imposed was appropriate to the violation
 - d. To consider new evidence
- If an appeal is upheld by the appellate board, the matter shall be remanded to the original judicial body and judicial advisor for reopening of the hearing to allow consideration of the original determination and/or sanction(s).

In cases involving appeals by students accused of violating this Student Code, review of the sanction by the appellate board may not result in more severe sanction(s) for the accused student. Instead, following an appeal, the appropriate college official may, upon review of the case, reduce

- but not increase the sanctions imposed by the judicial advisor.
- In cases involving appeals by persons other than students accused of violating this Student Code, the appropriate college official may, upon review of the case, reduce or increase the sanctions imposed by the judicial advisor or remand the case to the original judicial body and judicial advisor.

Article V: Interpretation and Revision

- A. Any question of interpretation regarding the Student Code shall be referred to person designated in Article I #13, or his/her designee, for final determination.
- B. The Student Code shall be reviewed every three
 (3) years under the direction of the Vice-Chancellor for Student Development and Community Affairs.

Student Records (2.5.3)

A. Definitions

For the purposes of this policy, the Maricopa County Community College District has used the following definition of terms.

- 1. College includes all colleges, educational centers, skill centers and District office.
- Educational Records any record (in handwriting, print, tapes, film, or other media) maintained by the college or an agent of the college which is directly related to a student, except:
 - a. A personal record kept by a staff member, if it is kept in the personal possession of the individual who made the record, and information contained in the record has never been revealed or made available to any other person except the maker's temporary substitute
 - An employment record of an individual whose employment is not contingent on the fact that s/he is a student, provided the record is used only in relation to the individual's employment
 - Records maintained by the colleges security unit, if the record is maintained solely for law enforcement purposes, is revealed only to law enforcement agencies of the same juris-

- diction and the security unit does not have access to education records maintained by the community college
- d. Alumni records which contain information about a student after he or she is no longer an attendant of the community college and the records do not relate to the person as a student

B. Annual Notification

Students will be notified of their further rights annually by publication in the college catalog and/or the student handbook:

Rights of Access to Educational Records

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights are:

 The right to inspect and review the student's education records within 45 days of the day the college receives a request for access.

Students should submit to the college admissions and records department written requests that identify the record(s) they wish to inspect. The college official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the college official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

The right to request the amendment of the student's education records that the student believes to be inaccurate or misleading.

Students may ask the college to amend a record that they believe is inaccurate or misleading. They should write the college official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the college decides not to amend the record as requested by the student, the college will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding

- the hearing procedures will be provided to the student when notified of the right to a hearing.
- The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interests. A school official is defined as a person employed by the college or District in an administrative, supervisory, academic, or support staff position (including law enforcement unit and health staff); a person or company with whom the college or District has contracted (such as an attorney, auditor, or collection agent); a person serving on the Governing Board; or a person assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

Upon request, the college discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

 The right to file a complaint with the US Department of Education concerning alleged failures by the college to comply with the requirements of FERPA.

The name and address of the Office that administers FERPA is:

Family Policy Compliance Office US Department of Education 400 Maryland Ave., S.W. Washington, DC 20202-4605

C. Student Directory

A Maricopa community college may release directory information about 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.

At any Maricopa community college, directory information is defined as a student's name,

address, telephone number, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, degrees and awards received, dates of attendance, part-time or full-time status, most recent previous educational agency or institution attended by the student, college within the Maricopa Community Colleges where the student has been enrolled, photograph of student, and electronic mail address.

D. Use of Educational Records for Advisement **Purposes**

All colleges within the Maricopa Community Colleges have access to the computerized degree audit program. 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.

The institution retains the right to exercise discretion in determining the release of directory information.

Disclosure to Parents

In accordance with federal law, college officials may disclose educational records to parents of minors or to parents of a student who have established the student's status as a dependent according to the Internal Revenue Code of 1986, section 152, without the written consent of the student.

Student Employment

Student employment policies are available from the Financial Aid Office.

Student Employment (AR 2.5.4)

- A. District Student Employees
 - 1. Introduction

Students may be employed by the college as student help. District policies require that students be hired in essential jobs and that they be properly trained and supervised.

- Philosophy and Workload for Student **Employees**
 - It shall be the philosophy of Maricopa Community College District that a student may work to augment college and living expenses, however, the scholastic endeavor should be foremost. Sufficient time should be allot-

- ted for classroom attendance, homework, out-of-class study and participation in activities.
- A workload of twenty (20) hours per week should be established as the maximum number of hours a student employee may work on campus. All student employees shall be enrolled in a minimum of three (3) semester credit hours. Any combination of day and evening hours would meet this requirement. Any student employee having special reasons to work over 20 hours per week or having dropped below three (3) credit hours should request his/her immediate supervisor to obtain approval from the College president or his/her designee.
- During the summer sessions, students may be eligible for employment if they were enrolled for a minimum of three (3) semester credit hours at the end of the spring semester, or if they have been accepted for admission for the fall semester. Exceptions to the three (3) semester credit hours may be made by the president, or his/her designee. Summer shall be designated as the time from the official end of the spring semester to the beginning of classes for the fall semester.

Student Employee Benefits

As student employees, there are no entitlements to employee benefits; i.e., vacation, retirement, sick leave, health and life, or disability insurance.

Students will, however, be covered under Worker's Compensation Insurance.

Student Employment Records

Student employee records will be maintained at the Financial Aid office, the office of the Fiscal Agent or the Career/Placement Office and will be reviewed periodically by the Dean of Students.

Student Compensation

The hourly rate of pay for student employees shall coincide with the policies of the District Salary Schedule.

Employee Contracts and Forms

See Appendix N.

7. Student Employee Grievance Procedure

Part-time student employees working for one of the Maricopa Community Colleges may wish to file a grievance relating to certain working conditions or violation of student employment regulation. Please refer to the grievance procedure as specified in the Student Policy Manual.

B. Student Security Guards

Introduction and Philosophy

Students may be employed by the college as student help. If student guards do not come from the ranks of Administration of Justice classes, they must undergo appropriate training to qualify them as student guards. This training program is outlined in the regulation.

- Workload of Student Security Guards
 - a. Student security guards shall be enrolled for a minimum of three (3) semester hours.
 - b. Student security guards shall be limited to 20 hours per week when the workweek starts at 7:00 a.m. on Monday and concludes at 11:00 p.m. on Friday. Additional hours may be worked if guards are assigned special duty at games or activities held on campus during the weekend, or if guards are assigned a shift on Saturday and Sunday, between 7:00a.m. and 11:00 p.m.
- Students not in Administration of Justice Program
 - a. Use of student other than those in Administration of Justice Program:
 - Selection of the student must be personally approved by the Dean of Students and Chief Security Officer.
 - Selection of a student should not extend beyond one semester without the approval of the Dean of Students.
 - Selected student must undergo a special training program directed by the Chief of Security and approved by the Dean of Students.

- Recommended program for students other than those in Administration of Justice programs:
 Students employed by campus security who are not majors in the Administration of Justice program should be given at least twenty (20) hours of training with pay before being allowed to function independently as a campus security guard. This training should include, but not be limited to instruction in:
 - Wearing of the uniform, general appearance, and demeanor
 - The use of the various security report forms and how to properly complete them to provide requested information. general report writing methods
 - 3) Public relations methods used on the campus
 - Crime prevention methods used on the campus; patrol methods used in buildings and grounds.
 - 5) Basic techniques for interviewing students, faculty and visitors relative to the incidents
 - 6) Laws and regulations governing the actions of campus security personnel concerning rendering of assistance to students, faculty and visitors on the campus
 - 7) Basic first aid
- 4. Student Security Guards Employee Benefits

As student employees there are not entitlements to employee benefits; i.e., vacation retirement, sick leave, health and life, or disability insurance. Students will, however, be covered under Worker's Compensation Insurance.

Student Employment Records

The student security guard's employment records will be maintained at the office of the Chief of Security and reviewed periodically by the Dean of Students.

FICA Information for Students

The IRS provides general standards for determining whether work performed by a student is exempt from FICA (Social Security and Medicare) taxes under Code Section 3121(b) (10).



The standards apply only to "institutions of higher education." Generally speaking, a student is exempt from FICA taxes so long as the student is enrolled and regularly attending classes at that school and the work performed is incident to and for the purpose of pursuing a course of study at the school. "Career employees" are ineligible for FICA exemption.

In Rev. Proc. 98-16 (1998-5 IRB 2/5/98), the IRS made it easier for part-time students to qualify for the student FICA exemption. Anyone who is at least a "half-time" under-graduate student or a "half-time" graduate or professional student (not a career employee) qualifies for the exemption with respect to work performed for an institution of higher education. "Half-time" is defined as 6.0 - 8.9 credit hours per the Student Services Policies & Procedures.

The determination of student status should be made by each supervisor at the end of the drop-add period and may be adjusted later on at the school's option. For payroll periods ending before the end of the drop-add period, student status may be determined based on the number of semester hours being taken at the end of registration period for that semester.

The exemption does not apply to work performed by anyone who is not enrolled in classes during school breaks of more than five weeks (including summer breaks of more than five weeks)

This exemption applies no matter how much the student is paid, what kind of work is performed, where it is performed or the number of hours worked so long as the work is incident to and for the purpose of pursuing a course of study at the college.

Student Governance

Student Governance (AR 2.5.5)

Student governing bodies derive their authority from the Maricopa County Community College District Governing Board that exists in accordance with Arizona Statutes. The administration of the District is vested in the Chancellor who delegates responsibility for each college to the college President who serves in a management and policy implementation capacity having the ultimate responsibility for all activities of the college. The President shall designate the administrator(s) (i.e., Directors of Student Leadership) at each college who will be charged with the responsibility for working with the college student governing body(ies) in the development of college student activities and programs.

A representative form of student governance may exist at each college/center as well as district wide to

provide an effective means of communication among students, faculty, staff and administration and to provide student input in college and District matters. Eligibility requirements are to be met and spelled out in detail in each student governance constitution, with the requirements of the district-wide student governance organization outlined in the Associated Students District Advisory Council's (ASDAC) constitution. These constitutions shall establish the minimum requirements for the elective/appointive officers. All student government constitutions shall be submitted to the Governing Board General Counsel to ensure compliance with federal and state laws, State Board for Community College of Arizona resolutions and ordinances and the Maricopa Community Colleges Governing Board policies. Since Rio Salado College is a countywide non-campus college, the president shall ensure that opportunities exist for student involvement.

College student constitutions should be reviewed annually by student governance. The appropriate dean or designee of each college shall be responsible for submitting any changes to the president of the college for transmittal to the Governing Board Legal Counsel.

The ASDAC student constitution shall be reviewed annually by the newly elected officers. The members/advisors of the District student leadership executive council shall be responsible for submitting any changes to the Deans of Students Executive Council for transmittal to the Governing Board legal counsel.

A. Officers/Members

All reference in this document to positions will designate whether the position is an officer position or a member position.

Each student governance constitution shall define which of its elected positions (maximum of 5) within its structure shall be designated as officers. The persons filling those positions shall be referred to, in this document, as officers. Persons filling all other positions, elected or appointed, shall be referred to as members (excluding non-voting committee members).

ASDAC will be comprised of primary leaders of the student governing bodies from MCCCD colleges specifically: Chandler-Gilbert Community College, Estrella Mountain Community College, Gateway Community College, Glendale Community College, Mesa Community College, Paradise Valley Community College, Phoenix College, Rio Salado College, Scottsdale Community College, South Mountain Community College.

Each ASDAC member college is allotted one vote. The primary leader(s) of the established student governing bodies at each MCCCD higher educational institution must be in compliance with the respective office requirements of that institution.

All positions filled by election shall be considered as elected positions, even though the person filling the position may have been appointed to fill an unexpired term of another individual.

B. Designation

Colleges with two (2) student governments shall designate the governments as "day" or "evening." Colleges with one (1) government shall be considered day students, for the purposes of this document.

C. Eligibility for Office

All student governance constitutions shall prescribe that all person selected or appointed as officers shall be enrolled in and maintain a minimum of six (6) credit hours for day student governments, three (3) credit hours for evening student governments. Officers shall have and maintain a minimum cumulative grade point average of 2.50 and be in good standing (not on probation) according to the written district policy. Convicted felons shall be ineligible for office (ARS §13-904). The constitution may, however, set more rigid requirements, if so desired by college student governance.

D. Tenure of Position

Tenure in any student governance position shall be determined by the respective student governance constitutions. In no case shall any student be allowed to serve in any combination of officer/member positions beyond a total of ten (10) semesters.

Tenure in any combination of officer positions shall be limited to four (4) semesters.

E. Removal from Office

Provisions shall be made in all student governance constitutions for removal for cause of individuals from elected or appointed student governance positions.

F. Remuneration Limitations

 Student body officers may receive financial support and/or a letter grade in a leadership class during their terms of office as authorized in their respective student governance constitutions.

Student body officers (maximum 5) may receive up to twenty (20) hours per week in financial support and/or up to six (6) credit hours in leadership classes per semester. Remuneration shall be for services rendered and not for merely holding the office.

- For qualifying students, College Work Study (CWS) funds may be used in accordance with Federal guidelines.
- 3. The allowance for awarding honorariums or scholarships for executive student officers is a maximum of \$200.00.
- 4. Compensation may be received for both honorariums/scholarships and college employment in the same semester.

G. Amending Student Constitutions

College student constitutions should be reviewed annually by student governance. The appropriate dean or designee of each college shall be responsible for submitting any constitutional changes to the President of the college for transmittal to the Governing Board General Counsel.

H. Student Governance Advisors

College organization advisors will be provided for in each student governance constitutions. Such advisors shall be full-time or part-time employees of the Maricopa Community Colleges.

Recommendations for appointment of an advisor may be submitted to the appropriate dean or college president. Recommendations for dismissal of an advisor with just cause may be submitted to the appropriate dean or college president. One or more of the Directors of Student Leadership will serve as advisor at all official meetings and functions of ASDAC.

I. Legal/Fiscal/Financial Matters

Authority and responsibility beyond the scope specifically covered in student policies, or interpretation of such matters within laws, board policies, etc. shall rest with the offices of General Counsel and Chancellor, respectively.

J. Final Authority

In the event of a complete breakdown of the governance body, the college president will serve as the final authority.

Clubs and Organizations

Student Development is expressed in diverse experiences on campus. Student life is an important part of the collegiate experience for all students attending a Maricopa Community College.

Opportunities will be available through the development of clubs, organizations and volunteerism at every campus serving a diverse student population.

Petitions for new college organizations are obtained from the office designated by student governance or, in its absence, by the designated dean.

The petition must be signed by at least fifteen (15) students interested in organizing a club. A general outline of the proposed constitution indicating the objectives and procedures for the club shall accompany the petition. Approved constitutions of all college organizations must include the following provisions:

- College organization advisors must be provided for in each club/organization's constitution.
- All monies of the organization must be deposited with the college fiscal agent and be expended by requisition authorized by the designated organization officer(s), college administrator and college fiscal agent.

A recommendation for approval should be forwarded to the college president/provost.

Fund-raising projects may be held on or in college/center facilities when approved specifically within issued guidelines.

Intercollegiate Athletics

Community colleges are intended to serve the needs of the community insofar as possible within the resources available to the Governing Board. Athletic programs are considered to be within the scope of this mission. Therefore, a proportionate part of the resources shall be used to provide athletic programs.

Within the guidelines of offering substantial athletic programs, residents of the college community shall

be served by these programs. Priority shall be given the residents of the college community for participation in the programs. However, no properly registered student shall be denied an equal opportunity to participate in any college activity.

Contact your campus athletic director and/or the Dean of Student Services for the regulations and procedures specific to the athletics program.

Travel by Students

Official college trips should be made in vehicles provided by the college or by commercial vehicles. College vehicles may be used for official college business only. See MCCD policy on Operation and Insurance Coverage of District Owned and/or Lease Vehicles and Privately Owned Vehicular Usage for District Purposes.

The college president may require an advisor(s) for college-sponsored student trips that involve out-of-county travel. No approved college organization, association or club that is financed out of the appropriate revenue fund budget shall travel out of state more than three (3) times during one (1) school year. Exceptions may be made for student officers who hold offices in national or regional organizations and tournaments. For travel out of the country, Governing Board approval is required.

If campus financial support is requested for attending tournaments or club functions, students must obtain campus approval prior to running for national or regional organizations and/or officer positions.

College and Student Activities Budgets

CGCC allocates funds to a variety of college and student activities. These funds cover a host of special events, cultural celebrations, cocurricular activities, academic recognitions, service learning, and a variety of performing arts activities. Please contact the Dean of Students Office at (480) 732-7310 for more information.



Degree Requirements



2003-2004 Graduation/General Education Policies

FOR MARICOPA COMMUNITY COLLEGES

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.

 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..... Fall '93 (Active)

Continued at a Public
Community College Spring '94, Fall '94... (Active)

(1993 or
Any Subsequent
Transferred to a University ... Spring '95...... Catalog)

EXAMPLE B:

Admitted & Earned
Course Credit at a
Public Community
College or University. Fall '92 ... (Active)
Enrolled But Earned
All Ws, Zs, or Fs ... Spring '93 ... (Inactive)
Enrolled in Audit
Courses Only ... Fall '93 ... (Inactive)
Nonattendance ... Spring '94 ... (Inactive)

(94 or Any Subsequent

Transferred to a University . . Fall '94 Catalog)

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

EXAMPLE A:

Admitted & Earned Course Credit at a Public Community College or University Fall '92 (Active)			
Nonattendance Spring '93, Fall '93, Spring '94 (Inactive)			
Readmitted & Earned Course Credit at a Public Community College Fall '94 (Active)			
(1994 or Any Subsequent			
Transferred to a University Spring '95 Catalog)			
EXAMPLE B:			
Admitted & Earned Course Credit at a Public Community College or University Fall '92			
Nonattendance Spring '93 (Inactive)			
Readmitted & Earned Course Credit at a Public Community College Summer '93 (Active)			
Nonattendance Fall '93, Spring '94 (Inactive)			
(1992 or Any Subsequent Transferred to a University . Fall '94 Catalog)			
* Students are not obligated to enroll and earn			

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

 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 are required to complete the degree and/or certificate requirements as approved by the MCCCD Governing Board. The college reserves the right to make necessary course and program changes in order to meet current educational standards. In addition, students 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; 60 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 as outlined in the Catalog Under Which a Student Graduates policy, must satisfy current graduation requirements.

- 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.
- 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.
- 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.)
- 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 MCCCD college/center.
- 8. have paid required degree or certificate application fee.

See fee schedule 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 and/or certificate must complete the General Graduation Requirements as approved by the MCCCD Governing Board.

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.

MCCCD General Education Statement (Effective Fall 2002)

The general education core of the program of study for an associate degree or a certificate helps students develop a greater understanding of themselves, of their relationship with others, and of the richly diverse world in which they live. The general education experience provides students with opportunities to explore broad areas of commonly held knowledge and prepares them to contribute to society through personal, social, and professional interactions with others. General education fosters students' personal development by opening them to new directions, perspectives, and processes.

Through its general education requirements, the Maricopa County Community College District is committed to helping students develop qualities and skills that will serve them throughout their lives. General education opportunities encourage students to:

- Build self-awareness, self-respect, and self-confidence
- Recognize and respect the beliefs, traditions, abilities, and customs of all people and all cultures
- Consider the local, global, and environmental impacts of personal, professional, and social decisions and actions
- Access, evaluate, analyze, synthesize, and use information wisely
- Communicate effectively personally, socially, and professionally
- Think critically, make informed decisions, solve problems, and implement decisions
- Consider the ethical implications of their choices

- Value the learning process throughout their lives
- Integrate and connect ideas and events in a historical perspective, and see relationships among the past, the present, and the future
- Develop a personal sense of aesthetics
- Use technological resources appropriately and productively
- Work cooperatively and respectfully with others to serve their communities

The general education experience at MCCCD is composed of specific elements across the curriculum designed to provide the learner with essential knowledge and skills:

- Communication
- Arts and Humanities
- Numeracy
- Scientific Inquiry in the Natural and Social Sciences
- Information Literacy
- Problem-Solving and Critical Thinking
- Cultural Diversity

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

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

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

2003-2004 Arizona General Education Curriculum (AGEC)—A, B, 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 in the general catalog.

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 at the Arizona Transfer Articulation Support System (ATASS) website or via the following web address:

http://www.abor.asu.edu/4_special_programs/atass/index.html

Select Student Information Select Degrees and Pathways Scroll down to the bottom of the page Select the letter of the major you're interested in

- 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.
- 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 university chemistry, university physics or 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 education 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 Arizona CEG (Course Equivalency Guide) within the Arizona Course Applicability System (AZCAS) 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.

- * 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 CEG. The course evaluation and/or general education designation as listed in AZCAS 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 scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

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

http://www.dist.maricopa.edu/academic/curric/

Select Program Information Scroll down to Program Sorting/Reporting Select AGEC Course Matrix or Select the current academic year Select the desired General Education Designation

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. When selecting Mathematical Studies and Natural Sciences options, select from the appropriate AGEC A, B, or S list.

A.	Core Areas:			
	1.	First-Year Composition (FYC)		
	2.	Literacy and Critical Inquiry [L]		
	3.	Mathematical Studies [MA/CS]		

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:

- Mathematics [MA] B (3 credits) AND NOTE: Requires a course in brief calculus or a higher level mathematics course.
- Computer/Statistics/Quantitative Applications [CS] (3 credits)

AGEC S requires:

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

Students are encouraged to choose courses from more than one discipline for a total of six semester credits.

Students are encouraged to choose courses from more than one discipline for a total of six semester credits.

To complete the Natural Sciences requirement:

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

The Natural Sciences requirement [SQ/SG] differs for AGEC S. AGEC S requires eight (8) semester credits of either university chemistry or eight (8) semester credits of university physics or eight (8) semester credits of general biology appropriate to the major.

The lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. The lecture and corresponding laboratory course(s) may carry separate credit. Students should consult with an advisor for appropriate course selection. Students should also access the Arizona Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS) for information on transfer equivalencies

B. 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 any of the three MCCCD AGECs because courses can satisfy a Core Area and one or two Awareness Areas simultaneously. Therefore, no additional semester credits are required to satisfy the two Awareness Areas.

Cultural Diversity in the United States [C]

AND

Global Awareness [G]

OR

Historical Awareness [H]



AGEC Area Requirements Descriptions/Definitions

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.

A total of three semester credits must be completed with a grade of "C" or better in the Literacy and Critical Inquiry 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.

A total of six semester credits must be completed with a grade of "C" or better in the Mathematical Studies Core Area. One course must be selected from Mathematics [MA]. A second course must be selected from Computer/ Statistics/Quantitative Applications [CS].

The Mathematical Studies requirement is intended to ensure that students have skill in basic mathematics, can use mathematical analysis in their chosen fields, and can understand how computers make mathematical analysis more powerful and efficient.

First, the acquisition of essential skill in basic mathematics requires the student to complete a course in college algebra or to demonstrate a higher level of skill by completing a course for which college algebra is a prerequisite.

Second, the real-world application of mathematical reasoning requires the student to take a course in statistics or the use of quantitative analysis to solve problems of substance.

Third, the use of the computer to assist in serious analytical work is required. Computers are widely used to study the implications of social decisions or to model physical systems.

Mathematics [MA] 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.

A total of six semester credits must be completed with a grade of "C" or better in the Humanities and Fine Arts Core Area. Students are encouraged to choose course work from more than one discipline for a total of six semester credits.

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.

A total of six semester credits must be completed with a grade of "C" or better in the Social and Behavioral Sciences Core Area. Students are encouraged to choose courses from more than one discipline for a total of six semester credits.

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.

Natural Sciences [SQ] A & B

The AGEC A and B Natural Sciences Core Area requires one laboratory course in natural sciences that includes a substantial introduction to the fundamental behavior of matter and energy in physical or biological systems.

Natural Sciences [SG] A & B

The AGEC A and B Natural Sciences Core Area requires a second laboratory course in the natural sciences, for example, from anthropology, astronomy, biology, chemistry, experimental psychology, geology, microbiology, physical anthropology, physical geography, physics, plant biology.



Natural Sciences [SQ], [SG] S

The AGEC S Natural Sciences Core Area requires eight semester credits of either university chemistry or eight semester credits of university physics or eight semester credits of general biology appropriate to the major.

SQ = Natural Science-Quantitative

SG = Natural Science-General

AWARENESS AREAS

Students must satisfy two Awareness Areas: Cultural Diversity in the United States and either Global Awareness or Historical Awareness. Courses can satisfy a Core Area and one or two Awareness Areas simultaneously. Therefore, no additional semester credits are required to satisfy the two Awareness Areas.

Cultural Diversity in the United States [C]

The contemporary "culture" of the United States involves the complex interplay of many different cultures that exist side by side in various states of harmony and conflict. U.S. history involves the experiences not only of different groups of European immigrants and their descendants, but also of diverse groups of American Indians, Hispanic Americans, African Americans and Asian Americans—all of whom played significant roles in the development of contemporary culture and together shape the future of the United States. At the same time, the recognition that gender, class, and religious differences cut across all distinctions of race and ethnicity offers an even richer variety of perspectives from which to view oneself. Awareness of cultural diversity and its multiple sources can illuminate the collective past, present, and future and can help to foster greater mutual understanding and respect.

The objective of the Cultural Diversity Area requirement is to promote awareness of and appreciation for cultural diversity within the contemporary United States. This is accomplished through the study of the cultural, social, or scientific contributions of women and minority groups, examination of their experiences in the United States, or exploration of successful or unsuccessful interactions between and among cultural groups.

Global Awareness [G]

Human organizations and relationships have evolved from being family and village centered to the modern global interdependence that is apparent in many disciplines—for example, contemporary art, business, engineering, music, and the natural and social sciences. Many serious local and national problems are world issues that require solutions which exhibit mutuality and reciprocity. These problems occur in a wide variety of activities, such as food supply, ecology, health care delivery, language planning, information exchange, economic and social developments, law, technology transfer, and even philosophy and the arts. The Global Awareness Area recognizes the need for an understanding of the values, elements, and social processes of cultures other than the culture of the United States. The Global Awareness Area includes courses that recognize the nature of other contemporary cultures and the relationship of the American cultural system to generic human goals and welfare.

Courses that satisfy the Global Awareness option in the requirements are of one or more of the following types:

- 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;
- Studies of international relationships, particularly those in which cultural change is facilitated by such factors as social and economic development, education, and the transfer of technology; and

4. Studies of cultural interrelationships of global scope such as the global interdependence produced by problems of world ecology.

Historical Awareness [H]

The Historical Awareness Area option in the requirements aims to develop a knowledge of the past that can be useful in shaping the present and future. Because historical forces and traditions have created modern life and lie just beneath its surface, historical awareness is an aid in the analysis of present-day problems. Also, because the historical past is a source of social and national identity, historical study can produce intercultural understanding by tracing cultural differences to their origins. Even the remote past may have instructive analogies for the present

The Historical Awareness Area consists of courses that are historical in method and content. In this Area, the term "history" designates a sequence of past events or a narrative whose intent or effect is to represent such a sequence.

The requirement presumes that these are human events and that history includes all that has been felt, thought, imagined, said, and done by human beings. History is present in the languages, art, music, literature, philosophy, religion, and the natural sciences, as well as in the social science traditionally called history.

2003-2004 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 Education which includes the Arizona General Education Curriculum A (AGEC A), and MCCCD 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 and for students who plan to complete lower division course work toward a baccalaureate program at other degree granting institutions. The AA GR is designed for students who may or may not know their major or university. Additional information on academic majors at the Arizona public universities can be accessed via the following web address:

http://www.abor.asu.edu/4_special_programs/atass/index.html

Select Student Information Select Degrees and Pathways Scroll down to the bottom of the page Select the letter of the major you're interested in

The degree transfers as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements. All semester credits used to satisfy the MCCCD 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 in the general catalog.

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;



AA Degree, General Requirements Continued

- * 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, MCCCD 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 Arizona CEG (Course Equivalency Guide) within the Arizona Course Applicability System (AZCAS) 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 Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS). The course evaluation and/or general education designation as listed in AZCAS 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 MCCCD Courses That Can Be Used to Satisfy MCCCD AGEC A, AGEC B and/or AGEC S for specific course information via the following web address:

http://www.dist.maricopa.edu/academic/curric/

Select Program Information Scroll down to Program Sorting/Reporting Select AGEC Course Matrix or Select current academic year Select desired General Education Designation

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. When selecting Mathematical Studies and Natural Sciences options, select from the appropriate AGEC A, B, or S list.

I. MCCCD GENERAL EDUCATION

Credits

The MCCCD General Education includes two areas, MCCCD AGEC A and MCCCD Additional Requirements.

A	MCCCD	ACEC	A
A		ALTE.	А

1.

Co	re Areas:
a.	First-Year Composition (FYC)
b	Literacy and Critical Inquiry [L]
c.	Mathematical Studies [MA/CS]6
	To complete the Mathematical Studies requirement select one course to satisfy the
	Mathematics [MA] A and a second course from either Computer/ Statistics/ Quantitative
	Applications [CS].
	1) Mathematics [MA] A (3 credits)
	Select a course in college mathematics or college algebra or pre-calculus or
	any other mathematics course for which college algebra is a prerequisite.
	AND
	2) Computer/Statistics/Quantitative Applications [CS] (3 credits)
d.	Humanities and Fine Arts [HU]
	Students are encouraged to choose course work from more than one discipline for a
	total of six semester credits.
e.	Social and Behavioral Sciences[SB]
	Students are encouraged to choose course work from more than one discipline for a
c	total of six semester credits.
f.	Natural Sciences [SQ/SG]
	To complete the Natural Sciences requirement:
	Solvet form (1) corrector analytic of [SO] and form (1) corrector analytic of [SO] for a
	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.
	buones requirement
	The lecture course(s) selected for Natural Sciences must include or be accompanied
	by the corresponding laboratory course. The lecture and corresponding laboratory
	by the corresponding ansolutory counter, the tecture and corresponding ansolutory

The lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. The lecture and corresponding laboratory course(s) may carry separate credit. Students should consult with an advisor for appropriate course selection. Students should also access the Arizona Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS) for information on transfer equivalencies.

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]

3. 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



AA Degree, General Requirements Continued

Requirements simultaneously. Therefore no additional semester credits are required to satisfy Oral Communication and Critical Reading.

a. Oral Communication

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

Select from the following options:

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

b. 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 the students demonstrate proficiency through assessment, then the Critical Reading requirement has been satisfied and additional electives may be taken. CRE101 [L] OR

Equivalent as indicated by assessment

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.

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

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

http://www.abor.asu.edu/4_special_programs/atass/index.html

Select Student Information Select Common Course Matrices

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 Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS). For appropriate course selection, students should consult with an advisor.

2003-2004 Associate in Arts (AA) Degree Special Requirements (SR)

The Maricopa County Community College District Associate in Arts Special Requirements (AA SR) requires a total of 60-64 semester credits for the program of study. The degree has three major components: 1) General Education 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 and for students who plan to complete lower division course work toward a baccalaureate program at other degree granting institutions. 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 at the Arizona public universities can be accessed via the following web address:

http://www.abor.asu.edu/4_special_programs/atass/index.html

Select Student Information Select Degrees and Pathways Scroll down to the bottom of the page Select the letter of the major you're interested in

The degree transfers as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements. 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 in the general catalog.

The MCCCD Associate in Arts Special Requirements:

- Requires 60-64 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- * Uses the following policies to help students complete the required Core and Awareness Areas in 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, MCCCD Additional Requirements, Common Lower Division Program Requirements).

Follows the general education 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 Arizona CEG (Course Equivalency Guide) within the Arizona Course Applicability System (AZCAS) 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.



AA Degree, Special Requirements Continued

- * 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 Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS). The course evaluation and/or general education designation as listed in AZCAS is valid for the term in which the student is awarded credit on the transcript;
- Follows the graduation policies within the general catalog;
- * Includes both courses and their modular equivalents, either the course or the modular equivalents will satisfy the Associate in Arts Special Requirements;
- * Accepts one of the courses that is cross-referenced with other courses:
- * Provides for exemption from Arizona university admission requirements for students who complete the Associate in Arts degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

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

http://www.dist.maricopa.edu/academic/curric/

Select Program Information Scroll down to Program Sorting/Reporting Select AGEC Course Matrix or Select the current academic year Select the desired General Education Designation

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. When selecting Mathematical Studies and Natural Sciences options, select from the appropriate AGEC A, B, or S list.

I. MCCCD GENERAL EDUCATION

Credits

The MCCCD General Education includes two areas, MCCCD AGEC A and MCCCD Additional Requirements.

A. MCCCD AGEC A

1.	Co	re Areas:	35
a.		First-Year Composition (FYC)	
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 Computer/Statistics/Quantitative	
		Applications [CS].	
		1) Mathematics [MA] A (3 credits)	
		Select a course in college mathematics or college algebra or pre-calculus or any other mathematics course for which college algebra is a prerequisite. AND	
		2) Computer/Statistics/Quantitative Applications [CS] (3 credits)	
	d.	Humanities and Fine Arts [HU]	6
		Students are encouraged to choose course work from more than one discipline	
		for a total of six semester credits.	
	e.	Social and Behavioral Sciences [SB]	6
		Students are encouraged to choose course work from more than one discipline for a total of six semester credits.	

1	1	3	

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 lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. The lecture and corresponding laboratory course(s) may carry separate credit. Students should consult with an advisor for appropriate course selection. Students should also access the Arizona Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS) for information on transfer equivalencies.

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]

3. 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.

a. Oral Communication

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

Select from the following options:

COM100 [SB] (3 credits) OR

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

COM110 [SB] (3 credits) OR

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

COM225 [L] (3 credits) OR

COM230 [L] [SB] (3 credits)

AA Degree, Special Requirements Continued

b. Critical Reading

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

CRE101 [L] OR

Equivalent as indicated by assessment

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 address:

http://www.abor.asu.edu/4_special_programs/atass/index.html

Select Student Information Select Common Course Matrices

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 at the following web address:

http://www.abor.asu.edu/4_special_programs/atass/index.html

Select Student Information Select Common Course Matrices

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 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 Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS). For appropriate course selection, students should consult with an advisor.

2003-2004 Associate in Science (AS) Degree, General Requirements (GR)

The Maricopa County Community College District Associate in Science General Requirements (AS GR) requires a total of 60-64 semester credits for the program of study. The degree has three major components:

1) General Education which includes the Arizona General Education Curriculum S (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 and for students who plan to complete lower division course work toward a baccalaureate program at other degree granting institutions. 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 at the Arizona public universities can be accessed via the following web address:

http://www.abor.asu.edu/4_special_programs/atass/index.html

Select Student Information Select Degrees and Pathways Scroll down to the bottom of the page Select the letter of the major you're interested in

The degree transfers as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements. 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 in the general catalog.

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 Arizona CEG (Course Equivalency Guide) within the Arizona Course Applicability System (AZCAS) 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.

AS Degree, General Requirements Continued

- * 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 Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS). The course evaluation and/or general education designation as listed in AZCAS 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 web address:

http://www.dist.maricopa.edu/academic/curric/

Select Program Information

Scroll down to Program Sorting/Reporting

Select AGEC Course Matrix or

Select the current academic year

Select the desired General Education Designation

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. When selecting Mathematical Studies and Natural Sciences options, select from the appropriate AGEC A, B, or S list.

I. MCCCD GENERAL EDUCATION

Credits

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

A. MCCCD AGEC S

1.	Co	re Areas:	35
	a.	First-Year Composition (FYC)	
	b.	Literacy and Critical Inquiry [L]	3
	c.	Mathematical Studies [MA/CS]	
		To complete the Mathematical Studies requirement select one course to satisfy	
		the Mathematics [MA] S and a second course from	
		Computer/Statistics/Quantitative Applications [CS].	
		1) Mathematics [MA] S (3 credits)	
		Select a course in a calculus sequence (MAT220/MAT221), or any	
		mathematics course for which that course is a prerequisite.	
		AND	
		2) Computer/Statistics/Quantitative Applications [CS] (3 credits)	
	d.	Humanities and Fine Arts [HU]	6
		Students are encouraged to choose course work from more than one discipline	
		for a total of six semester credits.	
	e.	Social and Behavioral Sciences [SB]	6
		Students are encouraged to choose course work from more than one discipline	
		for a total of six semester credits.	

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To complete the Natural Sciences requirement:

Select eight (8) semester credits of either general chemistry (CHM151 & CHM151LL, and CHM152 & CHM152LL),

Eight (8) semester credits of university physics (PHY115 & PHY116, or PHY121 & PHY131),

OR

Eight (8) semester credits of general biology (BIO181 & BIO182) appropriate to the major.

The lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. The lecture and corresponding laboratory course(s) may carry separate credit. Students should consult with an advisor for appropriate course selection. Students should also access the Arizona Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS) for information on transfer equivalencies.

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]

3. MCCCD Additional Requirements0-6

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.

a. Oral Communication

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

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

AS Degree, General Requirements Continued

b. Critical Reading

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

CRE101 [L] OR

Equivalent as indicated by assessment

II. Major Specific Requirements

of the degree, or if students demonstrate proficiency, then the Non-English Language Requirements have been satisfied and additional electives may be taken.

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 at the following web address:

http://www.abor.asu.edu/4_special_programs/atass/index.html

Select Student Information

Select Common Course Matrices

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 Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS). For appropriate course selection, students should consult with an advisor.

2003-2004 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 Education 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 and for students who plan to complete lower division course work toward a baccalaureate program at other degree granting institutions. 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 at the Arizona public universities can be accessed via the following web address:

http://www.abor.asu.edu/4_special_programs/atass/index.html

Select Student Information Select Degrees and Pathways Scroll down to the bottom of the page Select the letter of the major you're interested in

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

The MCCCD Associate in Science Special Requirements:

- Requires 60-64 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- * Uses the following policies to help students complete the required Core and Awareness Areas in 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, Additional Mathematics and Science Requirements, Common Lower Division Program Requirements).

* Follows the general studies policy below:

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

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



AS Degree, Special Requirements Continued

eral 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 Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS). The course evaluation and/or general education designation as listed in AZCAS 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 web address:

http://www.dist.maricopa.edu/academic/curric/

Select Program Information

Scroll down to Program Sorting/Reporting

Select AGEC Course Matrix or

Select the current academic year

Select the desired General Education Designation

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. When selecting Mathematical Studies and Natural Sciences options, select from the appropriate AGEC A, B, or S list.

I. MCCCD GENERAL EDUCATION

Credits

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

A. MCCCD AGEC S

1.	Core Areas:
a.	First-Year Composition (FYC)
b.	Literacy and Critical Inquiry [L]
c.	and the first term of the second seco

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].

- Mathematics [MA] S (3 credits)
 Select a course in a calculus sequence (MAT220/MAT221) or any mathematics course for which that course is a prerequisite.
- 2) Computer/Statistics/Quantitative Applications [CS] (3 credits)

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d.	Humanities and Fine Arts [HU]
	Students are encouraged to choose course work from more than one discipline for a total of six semester credits.
e.	Social and Behavioral Sciences [SB]
	Students are encouraged to choose course work from more than one discipline
f.	for a total of six semester credits. Natural Sciences [SQ/SG]
1.	To complete the Natural Sciences requirements:
	Select eight (8) semester credits of either general chemistry (CHM151 & CHM151LL, and CHM152 & CHM152LL), OR
	Eight (8) semester credits of university physics (PHY115 & PHY116, or PHY121 & PHY131), OR
	Eight (8) semester credits of general biology (BIO181 & BIO182) appropriate to the major.
	The lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. The lecture and corresponding laboratory course(s) may carry separate credit. Students should consult with an advisor for appropriate course selection. Students should also access the Arizona Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS) for information on transfer equivalencies.
Stud [C] not Awa Area	dents must satisfy two Awareness Areas: Cultural Diversity in the United States and either Global Awareness [G] or Historical Awareness [H]. However, it is necessary for students to exceed thirty-five semester credits to complete the ureness Areas because courses can satisfy a Core Area and one or two Awareness as simultaneously. Therefore no additional semester credits are required to satthe two Awareness Areas.
AN	tural Diversity in the United States [C] D bal Awareness [G]
OR	
MC	CCD Additional Requirements0-6

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.

Oral Communication

2.

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.

AS Degree, Special Requirements Co	ontinued
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			Select from the following options: COM100 [SB] (3 credits)
			OR COM100AA & COM100AB & COM100AC [SB] (3 credits)
			OR COM110 [SB] (3 credits)
			OR COM110AA & COM110AB & COM110AC [SB] (3 credits)
			OR COM225 [L] (3 credits) OR
		L.	COM230 [L] [SB] (3 credits)
		D.	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 demon-
			strate proficiency through assessment, then the Critical Reading requirement
			has been satisfied and additional electives may be taken.
			CRE101 [L] OR Equivalent as indicated by assessment
II.	Add	ditional I	Mathematics and Science Requirement
	A.	Select a	nal Mathematics Requirements
	В.		nal Science Requirements
			ne option from the following. Option selected under Natural Sciences [SQ/SG] CCD Core Areas will not apply in the Additional Science Requirement area.
			Students should consult with an advisor or department/division chair for iate course selection.
			ght (8) semester credits of either general chemistry (CHM151 & CHM151LL, M152 & CHM152LL),
		Eight (8 PHY13) semester credits in university physics (PHY115 & PHY116, or PHY121 & I),
		OR Eight (8 major.) semester credits in general biology (BIO181 & BIO182) appropriate for the
III.	Mą	jor Speci	fic Requirements
	A.	In some level to s semester	majors students must demonstrate 4th semester proficiency at the 202 course satisfy the Non-English Language Requirement or complete a maximum of 16 credits. However, if students select non-English language courses that satisfy
			e areas of the degree, or if students demonstrate proficiency, then the Non- Language Requirement has been satisfied and additional electives may be taken.
	В.	A minin	on Lower Division Program Requirements
		sult with	s should refer to the list of Common Courses for their chosen major and/or con- n an advisor to select courses from the list. The list of Common Courses is le at the following web address:

http://www.abor.asu.edu/4_special_programs/atass/index.html

Select Student Information Select Common Course Matrices

C. General Electives

If needed, select courses to complete a minimum of 60 semester credits but no more than a total of 64 semester credits.

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

http://www.abor.asu.edu/4_special_programs/atass/index.html

Select Student Information Select Common Course Matrices

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

2003-2004 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 Education which includes Arizona General Education Curriculum B (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 and for students who plan to complete lower division course work toward a baccalaureate program at other degree granting institutions. 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 and other institutions with district-wide articulation agreements. 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 in the general catalog.



ABus Degree, General Requirements Continued

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 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 Arizona CEG (Course Equivalency Guide) within the Arizona Course Applicability System (AZCAS) 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 Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS). The course evaluation and/or general education designation as listed in AZCAS 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 web address:

http://www.dist.maricopa.edu/academic/curric/

Select Program Information Scroll down to Program Sorting/Reporting Select AGEC Course Matrix or Select the current academic year Select the desired General Education Designation

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. When selecting Mathematical Studies and Natural Sciences options, select from the appropriate AGEC A, B, or S list.

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I.	MCCC	D G	General Education	Credits
	A. MC	CCI	D AGEC B	
	1.	Co a. b. c.	First-Year Composition (FYC) Literacy and Critical Inquiry [L] Mathematical Studies [MA/CS] To complete the Mathematical Studies requirement select one course to satis 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 Computer/Statistics/ Quantitative Applications [CS] (3 credits) Note: Students are encouraged to select GBS221 or CIS105 to satisfy [CS]. 	
		d.	Humanities and Fine Arts [HU]	ine
		e.	Social and Behavioral Sciences [SB]	
		f.	Natural Sciences [SQ/SG]	8
			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 lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. The lecture and corresponding laboratory course(s) may carry separate credit. Students should consult with an advisor for appropriate course selection. Students should also access the Arizona Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS) for information on transfer equivalencies.	l -

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] Global Awareness [G] Historical Awareness [H]

with an advisor.

ABus Degree, General Requirements Continued			
	Common Lower Division Program Requirements	27-28	
	A total of 27-28 credits is required to satisfy the Comm Requirements. However, if students select courses that of the degree, then the number of semester credits requ	simultaneously satisfy multiple areas	
	Program Requirements is reduced. Additional semester Electives to complete the minimum 62-63 total program		
Co	mplete the following:		
Acc	ounting: *ACC111 & ACC230 & ACC24 OR **ACC211 & ACC2126-7 *MCCCD ACC250 or ACC211 may be taken in lieu of ACC111. **MCCCD ACC111 and ACC112 together are equivalent to ACC211. CIS105 [CS]	Business Elective	
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 Course Equivalency Guide (CEG) within the Arizona Course			

Applicability System (AZCAS). For appropriate course selection, students should consult

2003-2004 Associate in Business (ABus) Degree, Special Requirements (SR)

The Maricopa County Community College District Associate in Business, Special Requirements (ABus SR) degree requires a total of 62-63 semester credits for the program of study. The degree has three major components: 1) MCCCD General Education which includes Arizona General Education Curriculum B (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 and for students who plan to complete lower division course work toward a baccalaureate program at other degree granting institutions.** Currently the pathway for accountancy majors is a Transfer Guide Pathway (TG-XR). The Associate in Business General Requirements (ABus GR) is designed for all other business majors. Additional information on academic majors can be accessed via the following web address:

http://az.transfer.org/cas/atass/index.html

Select Student Information
Degrees and Pathways
Scroll down to the bottom of the page
Select the letter of the major you're interested in

The Associate in Business Special Requirements transfers as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements. 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 assessment, see the policy on Credit for Prior Learning in the general catalog.

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 Arizona CEG (Course Equivalency Guide) within the Arizona Course Applicability System (AZCAS) 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.



ABus Degree, Special Requirements Continued

- * 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 Course Equivalency Guide (CEG). The course evaluation and/or general education designation as listed in AZCAS 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 web address:

http://www.dist.maricopa.edu/academic/curric/

Select Program Information Scroll down to Program Sorting/Reporting Select AGEC Course Matrix or Select the current academic year Select the desired General Education Designation

I.

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. When selecting Mathematical Studies and Natural Sciences options, select from the appropriate AGEC A, B, or S list.

MCCCD General Education Cre			Credits
A.	MO	CCCD AGEC B	
	1.	Core Areas:	
	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] (3 credits)	
		Note: Students are encouraged to select GBS221 or CIS105 to satisfy [CS].	
		d. Humanities and Fine Arts [HU]	6
		Students are encouraged to choose course work from more than one discipline	
		for a total of six semester credits.	
		e. Social and Behavioral Sciences [SB]	6
		Students are encouraged to choose course work from more than one discipline	
		for a total of six semester credits.	
		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 lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. The lecture and corresponding laboratory course(s) may carry separate credit. Students should consult with an advisor for appropriate course selection. Students should also access the Arizona Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS) for information on transfer equivalencies.

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]

1441 611 . .

OR

Historical Awareness [H]

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

Complete the following:	CIS158 [CS] Programming I (Visual Basic): 3
Accounting: ACC111 & ACC230 & ACC240 OR **ACC211 & ACC212	CIS163AA [CS] Programming II (Java): 3 GBS205 3 GBS220 or MAT172 [MA] 3 GBS221 [CS] 3 ECN111 [SB] 3 ECN112 [SB] 3

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

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 Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS). For appropriate course selection, students should consult with an advisor.

2003–2004 Associate in Arts in Elementary Education (AAEE) Degree

The Maricopa County Community College District Associate in Arts in Elementary Education (AAEE) requires the student to complete 60-63 semester credits for the program of study. The degree has two major components:

- MCCCD General Education
 - A. Arizona General Education Curriculum A (AGEC A)
 - B. MCCCD Additional Requirements
- II. Elementary Education Requirements
 - **Education Foundations**
 - **Electives for Arizona Professional Teacher Standards**

The AAEE is designed for the student who plans to transfer to an Elementary Education program at an Arizona's public higher education institution and/or who plans to become a classroom instructional aide.

The degree transfers as a block without loss of credit to Arizona's public universities. All semester credits applied to the MCCCD Associate in Arts in Elementary Education also apply to graduation requirements of the university major for which the AAEE 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 in the college catalog.)

The MCCCD Associate in Arts in Elementary Education

- Requires completion of 60-63 semester credits in courses numbered 100 and above with a grade of "C" or better:
- Is governed by the following policies to enable students to satisfy **AGEC A** requirements without exceeding the 35 semester credits:
 - Courses can satisfy a Core Area and one or two Awareness Areas simultaneously.
 - Courses can satisfy an Elementary Education Requirement and one or more Awareness Areas simultaneously.
 - A course cannot be used to satisfy more than one Core Area requirement
 - A course cannot satisfy both the Elementary Education Requirement and a Core Area Requirement simultaneously.
 - Effective Fall 2000, the course evaluation and/or general education designation 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 MCCD and the institutions to which MCCD students transfer, students have the option to petition for general education evaluations and/or general education desig-
 - *(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.)
 - All courses applied to AGEC A must transfer as an equivalent course, a departmental elective credit, or general elective credit (E) at all Arizona public universities according to the CEG within the CAS.

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- * Follows MCCCD graduation policies within the college catalog;
- * Recognizes both courses and their modular equivalents; either a course or its modular equivalents satisfy the Associate in Arts in Elementary Education requirements;
- Recognizes both courses and their cross-references as equivalent courses;
- * Provides exemption from Arizona public university admission requirements for students who complete the AAEE 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.

I. MCCCD General Education Requirements 35-38 Credits

A. MCCCD AGEC A

1.	Core Areas			
	a.		st Year Composition [FYC]	
			1 or ENG102 OR ENG107 or ENG108	
	b.		thematics Studies [MA] & Computer/Statistics/Quantitative Applications [CS]6	
		1)	MA - MAT142 College Mathematics or higher	
			(Note: MAT156 and MAT157 are excluded) AND	
		2)	CS - CIS105 Survey of Computer Information Systems, OR	
			BPC110 Computer Usage and Applications	
	c.	Lite	eracy and Critical Inquiry [L]	
		1)	Select 3 semester credits from the following courses:	
			COM225 Public Speaking OR	
			COM230 Small Group Communication	
	d.	Hu	manities and Fine Arts [HU]	
		1)	Select 3 semester credits from the following courses:	
			ARH100 Introduction to Art	
			ARH101 Prehistoric through Gothic Art	
			ARH102 Renaissance through Contemporary Art	
			AND	
		2)	Select 3 semester credits from the following courses:	
			ENH110 Introduction to Literature	
			ENH241 American Literature Before 1860	
			ENH242 American Literature After 1860	
			EDU291 OR ENH291 Children's Literature	
			HUM250 OR HUM251 Ideas and Values in the Humanities	
			THE111 Introduction to Theatre	
			THE220 Modern Drama	
			DAH100 Introduction to Dance	
			DAH201 World Dance Perspectives	
	e.		cial and Behavioral Sciences [SB]	
		1)	Select 3 semester credits from the following courses:	
			HIS103 United States History to 1870	
			HIS104 United States History 1870 to Present AND	
		2)	Select 3 semester credits from the following courses:	
			PSY101 Introduction to Psychology	
			GCU121 World Geography I: Eastern Hemisphere	
			GCU122 World Geography II: Western Hemisphere	
			ECN111 Macroeconomic Principles	
			ECN112 Microeconomic Principles	
			POS110 American National Government	
			ECH176 or CFS176 Child Development	

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AA	AAEE Degree Continued			
			f. Natural Sciences - Science Quantitative [SQ] and Science General [SG]	
		1.		
		2.		
II.	Elei	men	tary Education Requirements	
A total of 25 semester credits are required to satisfy the Elementary Education Requi				
	A.	ED ED ED MA	ucation Foundations	
	В.	A to Tea	ctives for Arizona Professional Teacher Standards	
		Elec Equ	urses must transfer to all public Arizona universities as Elective Credit, Departmental ctive, or Equivalent to a university course as indicated in the Arizona Course uivalency Guide in effect when the course is taken. Courses identified as Non-transable in the Arizona Course Equivalency Guide cannot be used to satisfy this requirent.	

1. Additional Education Course Requirement

Select any EDU course (except EDU250) to satisfy this requirement.

2. Content Area Electives

GPH HIS

Select 7 credits from the following pre-MAT (courses numbered higher than 142 except MAT156 and MAT157) fixes: **ARH ART MTC** CFS176 or ECH176 Child **POS** Development THE CIS or BPC THP EDU (except EDU250) Foreign Language **ENG** Natural Science **ENH**

2003-2004 Academic Certificate

The Maricopa Community College District Academic Certificate is a defined and coherent program of study that is recommended for students who wish to gain additional expertise in an academic area. While this program of study can result in proficiency in specified skills and competencies, as well as mastery of knowledge, it is not designed to prepare someone for employment in a specific occupation. The content for an Academic Certificate may be derived from a variety of disciplines or it can be discipline specific. The Academic Certificate does not require a general education component even though requirements of the certificate may include courses that currently meet specific general education designations such as Humanities and Fine Arts, Social and Behavioral Sciences, etc.

The Academic Certificate:

- * Generally ranges from 12-39 credit hours in courses numbered 100 or above, although there is no minimum number of credit hours required for an Academic Certificate;
- * Requires a cumulative GPA of 2.0 or better for completion;
- Follows the graduation policies within the general catalog;
- * Accepts one of the courses that is cross-referenced with other courses;
- * Includes both courses and their modular equivalents, either the course or the modular equivalents will satisfy the Academic Certificate requirements;
- * Does not presume block transfer value. Consequently, in most cases the Academic Certificate should not be a subset of an existing transfer degree;
- * May have admission criteria established by the college if and when appropriate;
- * Is for the most part college specific.

2003-2004 Associate in Transfer Partnership (ATP) Degree

The Maricopa County Community College District Associate in Transfer Partnership (ATP) degree is designed to meet the needs of the Maricopa Community College students transferring to public and private colleges and universities. This degree is developed specifically for students who have an identified major and have selected the baccalaureate degree-granting institution to which they intend to transfer.

The Associate in Transfer Partnership degree is an articulated academic program of study established among the student, the accredited baccalaureate degree-granting institution selected by the student, and the primary Maricopa Community College the student attends. The program of study will "parallel" the student's four-year degree as designated by the baccalaureate degree-granting institution. That is, the courses and number of credit hours in the degree will consist of the Freshman and Sophomore lower division course degree requirements of the major as jointly planned and agreed on with the community college and the accredited institution to which the student plans to transfer.

The ATP degree requires a core of general studies credits in the following general education 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 education 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 website: http://www.dist.maricopa.edu/academic/curric/. Click on Program Information to access ATPs.

Exemption From Arizona University Admission Requirements

The Associate in Transfer Partnership degree provides for exemption from Arizona university admission requirements for students who complete the degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.

The ATP degree does not assure admission to the specific program at the baccalaureate degree-granting institution. Students participating in the ATP degree will be treated as "native" students by the upper division institution in terms of course evaluation and course changes.

Advising is a critical element of the transfer partnership degree, and students must work closely with a community college academic advisor prior to entering into a transfer partnership agreement. Once a transfer partnership agreement has been initiated by the student, approved and signed off by a community college academic advisor and university authorized official, the student is responsible for periodic meetings with the community college advisor and, if/when determined necessary, with the appropriate baccalaureate degree-granting institution academic advisor. Upon completion of 36 hours, the student must receive formal advising at a Maricopa Community College before the remainder of their classes can be scheduled.

ELEMENTS OF THE ASSOCIATE IN TRANSFER PARTNERSHIP (ATP) DEGREE

<u>ELEMENT</u> <u>CREDITS</u>

MCCCD General Education Core 19

Approved Lower Division Transfer Courses (Major dependent with maximum to be determined by receiving baccalaureate degree-granting institution)

Associate in Transfer Partnership Degree Total Hours 60 Minimum

Associate in Transfer Partnership degrees are available in following areas: accountancy, general business, psychology, computer information systems, elementary education, exercise science, social work, construction, American Indian studies, recreation, nursing, food and nutrition, exercise and wellness, and housing and urban development. Other ATP degrees may be added later depending on curricular needs.

2003-2004 Associate in General Studies (AGS) Degree

The Maricopa County Community College District Associate in General Studies (AGS) degree is recommended for students whose educational goals require flexibility. The AGS allows students to choose any elective courses numbered 100 and 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 Education 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 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 courses that are cross-referenced with other courses;
- * Provides for exemption from Arizona university admission requirements for students who complete the Associate in General Studies degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.
- * Key: / = OR & = AND

GENERAL EDUCATION CORE AREAS (16 credits - grade of "C" or better)

First-Year Composition (6 credits)

ENG English [101/107] & [102/108]

Oral Communication (3 credits)

COM Communication 100/100AA & 100AB & 100AC/110/110AA & 110AB &110AC/225/230

AGS Degree Continued

Critical Reading (3 credits)

CRE Critical Reading 101/Equivalent as indicated by assessment

• Mathematics (3 credits)

MAT Mathematics 102/105/120/121/122/122AA/122AB/122AC/126/142/150/151/151AA/ 151AB/151AC/151AD/152/156/162/167/172/182/187/212/216/220/221/225/226/227/ 230/231/236/240/241/261/262/Equivalent course/Satisfactory completion of a higher level Mathematics course.

Computer Usage (1 credit)

Computer-related course or demonstration of comparable computer skills. Additional courses may be approved by individual colleges. Students should contact their advisor for college-specific courses satisfying the requirement.

- ACC Accounting 115/115AA/115AB/115BA/115BB
- ADA Advertising Arts 169/170/170AA/170AB/173/173AA/173AB/173AC/175/175AA/175AB/177/177AA/177AB/any 180 module/183/183AA/183AB/183AC/283/283AA283AB/283AC/289/289AA/289AB/289AC
- AGB Agribusiness 139
- AJS Administration of Justice Studies 117/**119**/205
- ART Art 100/169/170/170AA/170AB/173/173AA/173AB/173AC/175/175AA/175AB/
 177/177AA/177AB/179/179AA/179AB/any 180 module/183/183AA/183AB/183AC/
 283/283AA/283AB/283AC/289/289AA/289AB/289AC
- BPC Business-Personal Computers Any BPC Course(s)
- CFS Child/Family Studies 180
- CIS Computer Information Systems Any CIS Course(s) (Except CIS183AA)
- CSC Computer Science Any CSC Course(s)
- CTR Court Reporting 101/102
- DFT Drafting Technology 103/105/any 105 module/150/151/200/201/251/any 251 module/253/any 253 module/any 254 module/any 256 module
- ECE Engineering Science 102/102AA/103/103AB/139
- ECH Early Childhood Education 238
- EEE Electrical Engineering 120
- ELE Electronic 115/150/181/241/243/245/281
- ELT Electronics Technology 131/131AA/131AB/241/243/249/273/281/282
- ENG English 100AE
- FON Food & Nutrition 100/100AA/100AC/100AD/140BC
- GPH Physical Geography 217/219
- HRM Hotel Restaurant Management 126
- JRN Journalism 133
- LAS Legal Assisting 229
- LBT Library Technology 106
- MET Manufacturing Technology 105AA/264
- MTC Music: Theory/Composition 191
- NET Networking Technology 181/181AA/181AB/247
- OAS Office Automation Systems111AA/111AB/113/113AA & 113AB/119/130/ any 130 module/any 135 module/any 235 module
- QCT Quality Control Technology 274
- SBS Small Business 211
- SMT Semiconductor Manufacturing Technology 131/131AA/131AB/150
- TCM Telecommunications 106
- TVL Travel Agent Technology 203/205
- VPT Video Production Technology 106

GENERAL EDUCATION DISTRIBUTION AREAS (28-29 credits)

• Humanities and Fine Arts (9 credits)

Students are encouraged to choose courses from more than one discipline. Select nine (9) credits from the following:

- AIS American Indian Studies 213
- 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 109/243
- HUM Humanities Any HUM Course(s)
- INT Interior Design 115/120/225
- LAT Latin 201/202
- MHL Music:History/Literature 140/143/145/146/147/153/155
- 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
- STO Storytelling 292/294
- TCM Telecommunications 145
- THE Theater 111/205/206/210/220/260
- THP Theater Performance/Production 241
- WST Women's Studies 209/284/285

Social and Behavioral Sciences (9 credits)

Students are encouraged to choose courses from more than one discipline.

- AIS American Indian Studies 101/105/140/141/170
- AJS Administration of Justice Studies 101/**119**/200/225/258/259/270
- ASB Anthropology 100/102/211/214/222/223/230/235/238/245
- ASM Anthropology 104
- CFS Child/Family Studies 157/159/176/205/259
- COM Communication 100/100AA & 100AB & 100AC/110/110AA & 110AB &
 - 110AC/230/250/263
- ECH Early Childhood Education 176
- ECN Economics Any ECN Course(s)
- EDU Education 221/222
- EMT Emergency Medical Technology 258
- FSC Fire Science Technology 258
- 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 Courses
- IBS International Business 109
- MCO Mass Communications 120
- PHI Philosophy 243
- POS Political Science Any POS Course(s) (EXCEPT 115)



AGS Degree Continued

Social and Behavioral Sciences Continued

PSY Psychology 101/123/132/156/157/215/218/235/ 240/245/250/258/259/260/

266/270/277/280/292

REC Recreation 120/160

REL Religious Studies 243

SBU Society and Business 200

SOC Sociology Any SOC Course(s) (EXCEPT 242)

SWU Social Work 102/171/258/292 TEC Textiles & Clothing 105/106

WED Wellness Education 110

WST Women's Studies 100/105/110/120/160/161

YAQ Yaqui Indian History and Culture 100

Natural Sciences (6-7-8 credits)

Two lecture courses and one corresponding laboratory course are to be selected. The lecture and corresponding laboratory course(s) may carry separate credit. For appropriate course selection students should consult with an advisor.

AGS Agricultural Science 164/183

ASB Anthropology 231

ASM Anthropology 265

AST Astronomy 101/102/111/112/113/114

BIO Biology 100/101/102/105/108/109/110/145/149AF/149AH/149AI/149AJ/ 149AK/149AL/149AM/149AN/150/156/160/181/182201/205/241/245/246

CHM Chemistry 107/107LL/130/130LL/151/151LL/152/152LL/154/154LL/230/230LL

GLG Geology Any GLG Course(s)

GPH Physical Geography 111/112/113/210/211/212*/214*

ISS Interdisciplinary Science Studies 111/112

PHS Physical Science 110/120

PHY Physics 101/111/112/115/116/121/131/252

PSY Psychology 290AB/290AC

Literacy and Critical Inquiry (3 credits)

AIS American Indian Studies 213

CCS Chicana and Chicano Studies 101

COM Communication 207/222/**225/230**/241

CRE Critical Reading 101

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

HUM Humanities 250/251

IGS Integrated Studies 291/293

JRN Journalism 201/212

MCO Mass Communications 220

NUR Nursing 211

PHI Philosophy 103/106/225

PSY Psychology 290AB/290AC

REL Religious Studies 203/205/225

THE Theater 220

THP Theater Performance/Production 241

ELECTIVE COURSES (15-16 credits)

May select courses from prefixes already chosen for General Education Distribution requirements in order to develop depth in one or more subject areas.

2003-2004 Associate in Applied Science (AAS) Degree/General Education 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 60 or more credits numbered 100 and above and includes credits or the equivalent in the General Education Core Areas and credits in the Distribution Areas. AAS degree requirements follow with the use of a diagonal character (/) between course numbers to signify options. An asterisk (*) following the course number defines requirements with an effective begin term of spring;
- * Requires grades as listed for specific areas such as the General Education 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 Education 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;
 - For Shared Programs, programs to be offered at multiple colleges but not available at all colleges. The requirements are identical at all the colleges offering the program;
- * Requires a minimum of six credit hours be completed with a grade of "C" or better at the college awarding the shared certificate or degree in programs other than Nursing. For those programs with less than six credit hours, the total hours for the program must be completed at the college awarding the shared certificate. The minimum of six credit hours in the certificate or degree curricula may be in the Required Courses area and/or the Restricted Electives. Courses from the General Education core and Distribution area are excluded;
- * For an AAS in Nursing, a student must apply for graduation from the college where they have successfully completed Block 4;
- * Requires completion of General Education courses as indicated in the General Education 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;



AAS Degree Continued

- * 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.
- * Key: / = OR & = AND

General Education Core Areas (15 credits - grade of "C" or better)

Demonstrate college-level skills in the following areas:

First-Year Composition (6 credits)

ENG English [101/107] & [102/108/111]

Oral Communication (3 credits)

COM Communication 100/100AA &100AB & 100AC/110/110AA & 110AB & 110AC/225/230

Critical Reading (3 credits)

CRE Critical Reading 101/111/Equivalent as indicated by assessment

Mathematics (3 credits)

MAT Mathematics 102/105/120/121/122/122AA/122AB/122AC/126/142/150/151/ 151AA/151AB/151AC/151AD/152/156/162/167/172/182/187/212/216/ 220/221/ 225/226/227/230/231/236/240/241/261/262/Equivalent course/ Satisfactory completion of a higher level mathematics course.

General Education Distribution Areas (9-10 credits)

Humanities and Fine Arts (2-3 credits)

Students are encouraged to choose courses from more than one discipline.

AIS American Indian Studies 213
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 140/143/145/146/147/153/155

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

STO Storytelling 292/294 TCM Telecommunications 145

THE Theater 111/205/206/210/220/260

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Humanities and Fine Arts Continued

THP Theater Performance/Production 241 WST Women's Studies 209/284/285

• Social and Behavioral Sciences (3 credits)

Students are encouraged to choose courses from more than one discipline.

- AIS American Indian Studies 101/105/140/141/160
- AJS Administration of Justice Studies 101/200/225/258/259/270 ASB Anthropology 100/102/211/214/222/223/230/235/238/245
- ASM Anthropology 104
- CFS Child/Family Studies 157/159/176/205/259
- ECH Early Childhood Education 176 ECN Economics Any ECN Course(s)
- EDU Education 221/222
- EMT Emergency Medical Technology 258
- FST Fire Science Technology 258
- 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) (EXCEPT 115)
- PSY Psychology 101/123/125/132/156/157/215/ 218/235/240/245/250/258/259/
- 260/266/270/277/280/292
- REC Recreation 120/160
- REL Religious Studies 243
- SBU Society and Business 200
- SOC Sociology Any SOC Course(s) (EXCEPT 242)
- SWU Social Work 102/171/258/292
- TEC Textiles & Clothing 105/106
- WED Wellness Education 110
- WST Women's Studies 100/105/110/120/160/161
- YAQ Yaqui Indian history and Culture 100

Natural Sciences (4 credits)

Two lecture courses and one corresponding laboratory course are to be selected. The lecture and corresponding laboratory course(s) may carry separate credit. For appropriate course selection students should consult with an advisor.

- AGS Agricultural Science 164
- ASB Anthropology 231
- ASM Anthropology 265
- AST Astronomy 101/102/111/112/113/114
- BIO Biology 100/101/102/105/108/109/110/145/149AN/150/156/160/181/182/
 - 201/205/241/245 & 246
- CHM Chemistry 107/107LL/130/130LL/151/151LL/152/152LL/154/154LL/230/230LL
- GLG Geology Åny GLG course(s) (EXCEPT 140/251MC/275)
- GPH Physical Geography111/112/113/212*/214*
- ISS Interdisciplinary Science Studies 111/112
- PHS Physical Science 110/120
- PHY Physics 101/111/112/115/116/121/131/252
- PSY Psychology 290AB/290AC



2003-2004 Occupational Program Matrix

College Key	Business Administration
	BusinessMC, SC
CG Chandler-Gilbert Community College	Business (Fastrack) SC
EM Estrella Mountain Community College	General BusinessCG , GC, GW PC, PV
GC Glendale Community College	(See Management section for additional programs and
GW GateWay Community College	related areas)
MC Mesa Community College	Import / Export Trade
PC Phoenix Community College	International Business GW, MC, PC, PV, SC
PV Paradise Valley Community College	
RS Rio Salado College	Computer Science
SM South Mountain Community College	Computer Applications Technology EM
SC Scottsdale Community College	Computer Hardware and
AGRICULTURE	Desktop Support CG , EM, GW, MC, PC, SC
Additoliton	Computer Hardware and Network Support SC
Agribusiness Sales and Service	Computer Information
Pest Management Aide MC	Systems GC, GW, MC, PC, PV, SC, SM
O .	Helpdesk Specialist
Agricultural Production and Management	Oracle Applications Developer GC, EM
Agribusiness	Oracle Database Operations
(See Agribusiness Sales and Service and Horticulture	Oracle Database Administration GC, EM
sections for additional programs and related areas)	Web Design GC, GW, PV
Ranch and Livestock Management Aide MC	Web Design and Development
Ranch and Livestock Management Specialist MC	Web Developer
Urban Horticulture	Computer Networking TechnologyPV
(See Horticulture section for additional programs and	Computer Technology FM PS
related areas)	Computer Technology EM, RS Computer Usage and Applications RS
	Desktop Publishing EM, RS
Equine Training and Management	Network Professional
Equine Science SC	Web Master
•	Database Development
Horticulture	Education Technology
Landscape Aide MC	Geographic Information Systems MC
Landscape Design and Installation GC	Internet Design and Development SM
Landscape Management	Internet/Intranet Web Development
Landscape Specialist MC	Technology
Nursery Operations	Linux Information Systems
(See Agricultural Production and Management section	Microcomputer Applications
for additional programs and related areas)	(See Office Occupations section for additional programs
DUONIEGO	and related areas)
BUSINESS	Microcomputer Applications:
Accounting	Office Specialist/Core Level
Accounting	Microcomputer Applications:
Accounting - Specialized Para-Professional PV	Office Specialist/Expert Level CG
Bookkeeping	(See Office Occupations section for additional programs
Bookkeeping/Accounting	and related areas) Microcomputer Business Applications CG, GC
Microcomputer Accounting GW, PC, PV	(See Office Occupations section for additional programs
(See Business Administration for additional programs	and related areas)
and related areas)	Microsoft Applications Specialist/Core SM
Paraprofessional Accounting	THE WOIL TIPPICATIONS SPECIALIST COLE SIVI

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Microsoft Applications Specialist/Expert SM Microsoft Database Administration	Public Administration. RS Public Administration: Legal Services. RS Public Relations GC
TechnologyCG , EM, GC, GW, PV, SC Computer Applications: Microsoft Office	(See Middle Management section for additional programs and related areas)
Specialist/Advanced	Retail Management
Computer Applications: Microsoft Office	Small Business MC
Specialist/Basic	Small Business Entrepreneurship GC, SM
Microsoft Product	Small Business Management EM
Specialist CG , EM, GC, GW, PC, PV, SC	Supermarket Management
Microsoft Colutions	Supervision
Development	Supervision and Management I SM
EM, GC, GW, MC, PC, PV, SC	Supervision and Management II SM
Microsoft Systems Administrator SM	Supply Chain and Operations Management GW
Microsoft Systems	Tribal Development
Administration CG , EM, GW, PV, RS, SC	Wholesale Food Management SM
Microsoft Systems	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
EngineerCG , EM, GC, GW, PV, SC	Marketing
Network Administration	•
Network Administration: CISCO MC	Marketing
Network Administration: Microsoft	
Windows NT MC	Retail Marketing and Management SC
Network Administration: Novell MC	Retail Merchandising/MarketingPC SalesmanshipMC
Network Administration: UNIX-Solaris MC	Salesmansinp
Network Administration: Microsoft	Modia Tochnology
Windows 2000 MC	Media Technology
Network Professional	Motion Picture/Television ProductionSC
Network Security MC	Broadcast Production
Networking RS	EditingSC
Networking Administration:	Film Production
Cisco CG, EM, GC, GW, PC, SM	ScreenwritingSC
Networking System AdministrationMC	Media Arts: Computer
Networking Technology:	Art/Illustration
Cisco CG, EM, GC, GW, SC, PC	Media Arts: Desktop Publishing PC, MC
Programming	Media Arts: Digital Animation PC, MC
Programming Methodology MC	Media Arts: Digital Imaging CG, PC, MC
Programming and System	Media Arts: Music Technology PC, MC
Analysis EM, GC, GW, MC, PC, PV, SC	Media Arts: Web Page Design PC, MC
Software Development	Video Production Technology GC
Technology Helpdesk Support RS	BALLII BA
Technology Troubleshooting	Middle Management
and A+ Preparation RS	Public Relations MC
and 11 Treparation	(See Management section for additional programs and
Finance	related areas)
Banking and Finance	Office Occupations
Real Estate	Administrative Information
Management	Management Support
Management	Administrative Office Coordinator
Business Management	Administrative Office Professional MC
Credit Union Management PC	Call Center Supervision
General Business	Computer Software Applications
ManagementPC, MC, SC	Court Reporting
Management I PC	Data Entry Clerk
Management II	General Office Secretary
Middle Management GC. PV	General Office Secretary

College Key	
CG Chandler-Gilbert Community College	
EM Estrella Mountain Community College	
GC Glendale Community College	
GW GateWay Community College	
MC Mesa Community College	
PC Phoenix Community College	
PV Paradise Valley Community College	
RS Rio Salado College	
SM South Mountain Community College	
SC Scottsdale Community College	
Office Occupations Continued	
Legal Assisting PC	
Legal Secretarial PC	
Medical Office Support PC	
Medical Office Support: Basic Clerical PC	
Medical Office Support: Basic Transcription PC	
Office Automation Systems PV, SC, SM	
Office Coordinator	
Office Fundamentals	
Office Specialist: Computer Applications GW	
Office Support I	
Office Support IIPC	
Office Support II	
Scoping	,
Word Processing	
· ·	
Total Quality Management	
Organizational	
Leadership EM, GW, MC, PC, PV, RS	
Quality Customer Service GW, MC, PC, RS	
Automobile Insurance: Customer Service RS	
Credit Counseling: Customer ServiceRS	
Credit Card: Customer Service	1
Assistance: Customer Service	
Human Services -	,
Long Term Care Customer Service RS	
Human Services -	
Specialist: Customer Service RS	,
Insurance-Customer Service RS	
Telecommunications: Customer Service RS)
Travel Agency: Customer Service RS	
Utilities Customer Service	,
Quality Process Leadership GW, MC, RS	
Total Quality Management EM	
HEALTH OCCUPATIONS	
Allied Health	
Advanced Behavioral Health Sciences SM	ſ
Basic Behavioral Health	
Community Health Advocate, Diabetes MC, SC	

Developmental Disabilities Specialist CG , G	
Diagnostic Medical Ultrasound Technology GV	IX.
Direct Care Practice	((
EKG/Telemetry Technician	0
Health Information D	\sim
Health Information	
Licelth Complete Management	ı x
Health Services Management	V V
Health Unit Coordinating	۷V
Hospital Central Service Technology GV	W
Laboratory AssistingP	
Medical Assisting	(C
Medical Billing	
Medical Coding: Hospital-BasedP	<u>'</u> (
Medical Coding: Physician Based P	<u>'</u> (
Medical Front Office	
Medical Radiography	W
Medical Transcription	W
Nuclear Medicine Technology	W
Patient Care Technician	C
Perioperative Nursing	W
PhlebotomyP	C
Physical Therapist Assisting	W
Radiography	C
Respiratory Care	W
Respiratory Care Technology	V
Speech Language Pathology S	C
Surgical Technician First Assistant	V
Surgical Technology	V
Dental	
Clinical Dental Assisting	ረऽ
Dental Assisting	C
Dental Hygiene	SS
Dental Office Management	'C
Emergency Medical Technology	
Advanced Emergency Medical	
Technology (Paramedic) GC, PC, S	·C
Basic Emergency Medical	
Technology GC, MC, PC, PV, S	C
Emergency Communications	
and Deployment	ľ
Intermediate Emergency Medical	_
Technology MC, P (See Allied Health section for additional programs and	Έ.
(See Allied Health section for additional programs and	d
related areas)	
Paramedicine	C
Nursing	
J	·
Nursing	S)
Nurse Assisting GC, GW, MC, PC, PV, SC, F	
Fast Track Practical Nursing	W
Practical Nursing CC CW/MC PC PV SC B	γÇ

HOME ECONOMICS	SERVICE OCCUPATIONS
Early Childhood Education	Administration of Justice
Adolescent Studies PC	Administration of Justice EM, GC, MC, PC
Child Care	Administration of Justice Comprehensive PC
Child Care Administration PC	Administration of Justice Fundamentals PC
Child Development MC	Administration of Justice Studies SC
Classroom Management for Infants,	Adult Corrections PC
Toddlers and Preschool Children PC	Advanced CorrectionsRS
Early Childhood Development SC, SM	Basic Corrections
Early Childhood Education PV, GC	Corrections
Early Childhood Small Business Management SC	Correctional Program Officer Training PC
Family Resources	Correctional Service Officer Training PC
Family Support	Corrections Supervision/Management PC
Infant/Toddler Development SC	Crime and Intelligence Analysis
Education	Crime Scene TechnologySC
Education	Detention Services
Instructional Assistance MC, PC	Evidence Technology
Bilingual Endorsement MC, PC	Fingerprint Classification and Identification PC
English as a Second Language (ESL)	Judicial Studies
Endorsement MC, PC	Justice Agencies Support Level L. M.C. P.C.
Reading Endorsement MC, PC	Justice Agencies Support Level I MC, PC
Teacher Assisting EM	Justice Agencies Support Level II MC, PC Justice Studies
Eachian Docian	Law Enforcement
Fashion Design	Law Enforcement Investigator
Fashion Design	Law Enforcement Supervision
Apparel Construction PC	Law Enforcement Technology
Fashion Design Level I PC	Law Enforcement Field Training
Fashion Design Level II	Parole Officer Training
Fashion Illustration Level IIPC	Police Academy
Fashion Illustration Level III PC	Police Academy Preparation
Pattern Design Level I PC	Police Academy Preparation Level I SC
Pattern Design Level II PC	Police Science GC, MC, SC
Tuttern Design Level II	Police Science I GC, MC
Food and Nutrition	Police Science II GC, MC
Basic Culinary Studies EM	Police Science III GC, MC, SC
Commercial Food Preparation PC	Police Supervision
Culinary Studies EM, PC	Public Safety Technology RS
(See Hospitality section for additional programs and	Tribal Court Advocacy PC
related areas)	Tribal Court Advocacy IPC
Dietetic Technology	Tribal Court Advocacy II PC
Food Service Administration PC	Flor Colonia
Professional Food and Beverage Service PC	Fire Science
O	Basic Firefighter
Interior Design	Driver Operator
Interior Design MC, PC, SC	Fire Academy
Advanced Interior Design MC, PC	Fire Officer I
Home Furnishing and	Fire Science
Materials	Fire Science Technology
Interior Design: Professional Level SC	Recruit Firefighters
Manakan diakan	Hospitality
Merchandising	• •
Apparel Merchandising	Airline Operations
Fashion Merchandising PC	Annie Operations, Ground Operations, No

College Key	Teaching, Healing, Meditation & Stress
	Management
CG Chandler-Gilbert Community College EM Estrella Mountain Community College	Therapeutic Massage
GC Glendale Community College	Social Sciences
GW GateWay Community College	Chemical Dependency
MC Mesa Community College	Chemical Dependency Level I
PC Phoenix Community College	Chemical Dependency Level II RS
PV Paradise Valley Community College	Clinical Research CoordinatingGW
RS Rio Salado College	Interpreter Preparation MC, PC
SM South Mountain Community College	Professional Addictions Counseling RS
SC Scottsdale Community College	Sign Language Communication
Hospitality Continued	Pre-Employment PC
Airline Operations: Initial Flight Attendant RS	Social Services
Airline Operations: Passenger Services RS	Advanced Aging Services Management and
Airline Operations: Reservations RS	Administrative Training PC
Airline Operations: Vacations	Aging Services Management and
Culinary Arts SC	Administrative Training PC
(See Food & Nutrition section for additional programs	Assisted Living: Directed Care Services PC
and related areas)	Assisted Living: Management PC
Hospitality/Hotel Management EM	Assisted Living: Medications for Personal Care
Hospitality and Tourism/Golf Management SC Hospitality and Tourism/Hotel Management SC	Services
Hospitality and Tourism/Restaurant	Assisted Living: Supervisory Care Services PC Assisted Living: Supervisory Care Services PC
Management SC	Gerontology
Travel Industry TechnologyPC	Human Services
Library Media Technology	TECHNOLOGY AND TRADE INDUSTRIAL
Library Information Technician	
Library Information Technician: Advanced MC	Air Conditioning and Refrigeration
Library Information Technician: Basic MC	Air Conditioning/Refrigeration/Facilities GW
Martuani Cajanaa	Heat and Frost Insulation
Mortuary Science	Apprenticeship Related Instruction
Mortuary Science MC	Carpentry
Darke Decreation Leigure and Fitness Studies	Construction Trades: Carpentry
Parks, Recreation, Leisure and Fitness Studies	Construction Trades: Millwright
Recreational Resources and Facilities	Construction Trades: Sheet Metal
Management	ElectricityGW
Management: Horticulture PC	IronworkingGW
Recreational Resources and Facilities	Millwright
Management: Equipment Maintenance	PaintingGW
and Repair	PlumbingGW
Recreational Resources and Facilities	Roofing
Management: Pesticides PC	Sheet Metal
Recreational Resources and Facilities	SteamfittingGW
Management: Pro Shop Management PC	Aviation and Aeronautics
Recreational Resources and Facilities	Aircraft Construction Technology CG
Management: Turf and Irrigation PC	Aircraft Maintenance Technology
Health and Physical Education/Fitness	Aircraft Maintenance Technology
Group Fitness Instructor	(Part 147)
Personal Trainer	

Airway Science Technology, Flight Emphasis	Computer Aided Drafting MC, PC Construction Drafting Technology MC Construction Drafting I MC Construction Drafting II. MC Construction Drafting III. MC Manufacturing Design Technology. GC Mechanical Drafting. MC Micro Circuit Mask Design. MC Microcomputer Servicing GC Process Technology Level I MC
Automotive Technology	Process Technology Level IIMC
Air Conditioning MC	ω.
Air Conditioning and Electrical Accessories GW	Electronics/Electrical Technology
Automotive Chassis	Cable Telecommunications
Automotive Drive Trains	Computer and Networking Technology GC
Automotive Electrical Systems MC	Electric Utility Technology
Automotive Engines and Drive Trains GC	Electrical Technology
Automotive Performance Technology MC	Electromechanical Automation Technology MC
Automotive Suspension, Steering and Brakes GW	Electromechanical Automation Technology I MC
Automotive Technology	Electromechanical Automation Technology II . MC
Brakes, Alignment, Suspension and Steering MC Caterpillar Technician Training MC	Electronic Industries Technology I MC Electronics Engineering Technology MC
Engine Performance and Diagnosis GW, MC	Electronics Manufacturing TechnologyGC
Transmissions and Power Trains	Electronics Technology
	Electronics Technology I MC
Building and Construction	Electronics Technology II MC
Building Safety TechnologySC	General Telecommunications
Building Safety and Construction Technology PC	Industrial Operations EM, GW
Building Safety & Planning Technology SC	Industrial Operations Technology EM, GW
CarpentryGW	Local Area Networks Servicing
Civil Engineering Technology PC	Telecommunications Technology SM
Construction Management	Environmental Technology
Home Improvement Retail Operations: Flooring	Biotechnology MC
Home Improvement Retail	Environmental Health and Safety Technology PV
Operations: Kitchen	Hydrologic Studies
Home Improvement Retail Operations:	Occupational Safety and Health Technology GW
MillworksGW	Safety, Health and Environmental Studies PV
Planning and Development Technology SC	Wastewater Treatment
O	Water Distribution and Collection
Commercial Art/Advertising Art	Water, Wastewater & Industrial Treatment
Computer Graphic Design GC, PC	Technology GW
(See Media Technology section for additional programs	Water Purification Technology
and related areas)	Water/Wastewater Technology
Drafting Technology	The state of the s
Applied Technology Electro/Mechanical	Engineering
Drafting	Civil Engineering Technology PC
Architectural CAD Technology	
Architectural Drafting	Manufacturing
Architectural Technology SC	Aerospace Manufacturing Technology
Architecture MC	Automated Manufacturing SystemsCG
CAD-Based Design Documentation GC	Manufacturing CNCMC
Civil CAD Technology	Manufacturing Engineering TechnologyMC

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Manufacturing Continued Manufacturing Machining MC Manufacturing Management MC Manufacturing Technology GW, MC Manufacturing Welding MC (See Welding Technology section for additional programs and related areas)
MachinistMCMachinist, Tool and DieMCMachinist, Tool and Die Level IMCMachinist, Tool and Die Level IIMC
Welding Technology Applied Technology - Welding MC Welding Certification MC (See Manufacturing section for additional programs and related areas) Welding

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

Auto Body Basic Refinishing and Metal Repair Auto Body Metal Repair Auto Body Basic Refinishing Auto Body Repair Helper Auto Body Sander Auto Body Masker and Taper Auto Body Special Projects Industrial Spray Painter

Understanding and Selling Bank Products

Banking

Banking
Bank Operations/Encoder
Bank Operations/Data Entry
Bank Operations
Operations Clerk
Principles of Banking
Proof Encoder
Ten Key/Keyboard Operator
Ten-Key Operator
Ten-Key Skills Builder

Call Center Communication

Incoming/Outgoing Calls

Computer Software Courses

Microsoft Office User Specialist (MOUS) Certification

Retail

Retail Cashier Supermarket Cashier

Computerized Office Programs

Office Assistant
Computer Keyboard Operator
Computer Keyboard Operator/File Clerk
Computerized Office Procedures
Special Projects
General Office Clerk
General Office Clerk with Data Entry
Office Associate

Medical Office

Medical Filing
Medical Terminology
Medical Terminology w/Transcription
Office Associate with Medical Applications
Office Associate with Medical Filing
Office Associate with Medical Insurance
Applications
Office Associate with Medical Terminology
Office Associate with Medical Terminology and
Transcriptions

Medical Insurance Office

Medical Insurance Medical Insurance with Billing Codes Medical Procedures Coding

Law Office

Legal Terminology
Legal Terminology w/Transcription
Office Associate with Legal Applications
Introduction to Paralegal Careers
Introduction to Paralegal Studies
Legal Terminology w/Intro Paralegal Studies
Associate/Intro Paralegal Studies

Receptionist

Office Associate with Receptionist

Call Center Representative

Call Center & Customer Service Representative

Short-Term Custom Courses

Alpha/Numeric Filing Computer Keyboarding

Customer Service Representative

Data Entry Keypad

Hands on Telephone Training Introduction to Computers

Introduction to Paralegal Studies

Legal Office Simulation

Legal Terminology

Legal Transcription

Machine Transcription

Medical Procedures Coding

Medical Insurance

Medical Terminology

Medical Transcription

Microcomputer Software Operator

Microsoft Access

Microsoft Access Overview

Microsoft Excel

Microsoft Excel Overview

Microsoft Powerpoint

Microsoft Powerpoint Overview

Microsoft Word

Microsoft Word Overview

Microsoft Word and Excel

Ten-Key by Touch

Travel Agent

Windows Operations

Facilities Maintenance

Facilities Maintenance with Introduction

to HVAC

Facilities Maintenance Helper

Facilities Maintenance Overview/

City of Phoenix

Facilities Maintenance Special Projects

Maintenance Carpentry Helper

Maintenance Electrician Helper

Maintenance Electrician Helper with

Introduction to HVAC

Maintenance Plumbing Helper

Food Preparation

Baker's Helper

Cook's Apprentice

Cook's Helper

Dining Room Attendant

Food Preparation Special Projects

Food Service Assessment DES/BEP

Kitchen Helper

Machine Dishwasher

Pantry Goods (Salad) Maker

Medical Assistant

Machine Trades

CNC Machining Center Operator CNC Turning Center Operator

CNC Turning and Machining Center Operator

Drill Press Operator
Manual Lathe Operator
Manual Machine Operator
Manual Milling Operator
Machine Trades Special Projects

Saw Operator Upgrade to CNC

Meat Cutting

Apprentice Meat Cutter Meat and Deli Counter Person

Meat Cutting Special Projects Meat Room Cleanup

Meat Room Helper

Portion Control Cutter

Poultry Processor

Self-Service Meat Wrapper

Nursing

Nursing Assistant Practical Nursing

Printing Trades

Bindery Worker Job Shop Printer

Offset Press Operator

Printing Trades Special Projects

Quick Print Shop Worker

Welding

Combination Welder (Arc, MIG, Flux Core)

Combination Welder with Intro to

Pipe Welding

TIG Welder/TIG Fingertip Welder

Welder Fitter-Helper

Welding Special Projects



SOUTH WEST SKILL CENTER

The South West Skill Center at Estrella Mountain Community College, located at 3000 North Dysart Road, Avondale, offers entry-level courses and programs for hands-on job training at 1245 E. Buckeye Road, Phoenix. The non-credit South West Skill Center certificates are open-entry /open-exit, and self-paced.

Business Technology Occupation (Certificate Programs)

Data Entry Clerk File Clerk Introduction to Computers Introduction to Computer Skills Introduction to Internet Introduction to Windows 98 Microsoft Office Suite Office Assistant Office Clerk Receptionist

Medical Assistant (Certificate Programs)

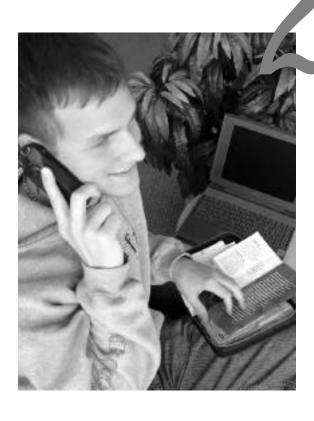
Medical Assistant Front Office/Back Office Medical Assistant Front Office Medical Assistant Back Office

C-Tech

Copper-Based Fiber Optics Cabling



Educational Programs



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Educational Programs

The Chandler-Gilbert Community College (CGCC) mission statement calls for serving "students and its diverse communities by providing quality lifelong learning opportunities in a learner-centered environment through effective, accessible educational programs and activities." CGCC faculty, staff, and administration are committed to providing a "dynamic learning community reflecting collaboration, diversity, and student success through quality, enthusiastic teaching, learning, and serving."

CGCC students have several choices of educational programs to pursue:

- Degrees offered by all Maricopa Community Colleges and found in the Degree Requirements section of this catalog:
 - Associate in Arts, Associate in Science, Associate in Business and Associate in Arts in Elementary Education degrees offered by all Maricopa Community Colleges and designed for students who may or may not know their majors but plan to transfer to one of Arizona's public universities.
 - **Associate in General Education degree** for students whose educational goals require flexibility and a broader choice of courses.
- Associate in Transfer Partnership (ATP) degree for specific majors for transfer to Arizona State University (ASU) Main, Arizona State University West, and Arizona State University East. The following ATPs are available at CGCC:
 - Accountancy at ASU Main and ASU West
 - Computer Information Systems at ASU Main
 - Elementary Education at ASU Main and ASU West
 - Exercise and Wellness at ASU East
 - Exercise Science and Physical Education at ASU Main
 - Food & Nutrition at ASU East
 - General Business at ASU Main for economics, finance, management, marketing, real estate, and supply chain management majors
 - Global Business at ASU West
 - Psychology (B.A.) at ASU Main and ASU West

- Psychology (B.S.) at ASU Main and ASU West
- Recreation at ASU Main
- Occupational Programs offered at CGCC have several missions: preparing students for employment, upgrading students' existing job skills, and assisting students in career changes.

Students can choose from several alternatives:

- Associate in Applied Science degree programs—usually a two-year program of course work.
- Certificate Programs—a series of courses designed for concentrated proficiency in specialized career fields.
- 3. Individual courses—designed to meet individual career or personal needs.

Because change is a constant factor in the employment picture, each occupational program has an advisory committee. These committees are composed of local leaders in industry and provide valuable assistance to faculty as they continually adjust the courses and programs to meet community needs. With the support of the advisory committees, highly qualified faculty, and up-to-date facilities, students are assured quality instruction in their future career field.

Students who choose to transfer to four-year institutions will find that many credits are transferable and provide a beginning foundation for completing a baccalaureate degree. The AAS degrees transfer as a "block" to the Bachelor of Applied Science at Arizona State University (East and West), and Northern Arizona University.

Special programs include:

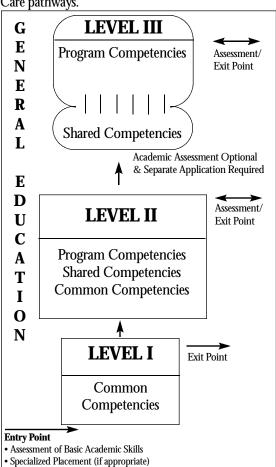
- Training for Business, Industry and Government
- Continuing Education
- English as a Second Language
- Fitness, Wellness, and Recreation
- Honors Program
- Performing Arts

For more information about educational programs, contact the Academic Advisement Center at (480) 732-7317.

MCCD 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 Maricopa Community Colleges 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. Refer to individual college catalogs for specific health care program pathways.

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.



Notes:

- Students are responsible for completing General Education coursework required for their particular Health Care Pathway.
- 2. All students must successfully demonstrate required reading, writing, and mathematics competencies. Academic remediation is available.
- 3. It may be possible for some students to meet Health Care Competency requirements for Level I and Level II common competencies through assessment of prior experience and/or education.
- Completion of Level I and Level II does not guarantee admission into Level III Health Care Pathways.

Chandler Gilbert (CGCC), Estrella Mountain (EMCC), GateWay (GWCC), Glendale (GCC), Mesa (MCC), Phoenix (PC), Paradise Valley (PVCC), Rio Salado (RSC), Scottsdale (SCC), South Mountain (SMCC), and the Maricopa Skill Center (MSC) and the Southwest Skill Center at EMCC (SWSC/EMCC) offer health care courses. Not all courses are offered at all sites. Please contact the specific college for more information regarding the availability of courses and course schedule information.

LEVEL 1 - Common Competencies -2.0 Credits

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

HCC130AA	Health Care Today 5
HCC130AB	Workplace Behavior in Health Care 5
HCC130AC	Personal Wellness and Safety $\ldots5$
HCC130AD	Communication and Teamwork in Health Care Organizations 5

LEVEL II - Common Competencies Credits Vary

ALL Health Care Students must satisfactorily achieve the Level II Common Competencies. See your advisor for which Medical Terminology course satisfies your pathway's course requirements.

HCC130AE	Legal and Ethical Issues in
	Health Care
HCC130AF	Decision Making in the Health
	Care Setting
HCC145AA	Medical Terminology for Health
	Care Workers I 1.0



HCC145AB	Medical Terminology for Health	
	Care Workers II	1.0
HCC145AC	Medical Terminology for Health	
	Care Workers III	1.0

LEVEL II - Shared and Program Competencies Credits Vary

Required of only certain health occupations program pathways. Refer to specific program pathway curriculum or check with a program advisor. Shared Competencies are shared by several health program pathways. Program Competencies are specific to individual health occupations program pathways.

<u>Level III - Shared and Program Competencies*</u> <u>Credits Vary</u>

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 **

Clinical Research Coordinating (GWCC) Community Health Advocate for Diabetes (MCC) Dental Assisting (PC, RSC) Dental Office Management (PC) Diagnostic Medical Ultrasound (GWCC) Direct Care Practice (MCC) Health Information Technology (PC) Health Services Management (GWCC) Health Unit Coordinating (GWCC) Hospital Central Service (GWCC) Laboratory Assisting (PC) Medical Assisting (MSC, PC, SWSC/EMCC) Medical Billing (PC Medical Coding: Physician or Hospital Based (PC) Medical Transcription (GWCC, SWSC/EMCC) Nuclear Medicine Technology (GWCC) Nurse Assisting (GCC, MCC, PC, SCC, GWCC, MSC, PVCC, SWSC/EMCC) Patient Care Technician (PC) Perioperative Nursing (GWCC) Phlebotomy (PC) Surgical Technician First Assistant (GWCC)

Surgical Technology (GWCC)
Teaching Healing Meditation and Stress
Management (PVCC)
Therapeutic Massage (CGCC, PC)

Examples of Level III Health Care Pathways **

Dental Hygiene (PC, RSC) Dental Office Management (PC) Diagnostic Medical Ultrasound (GWCC) Direct Care Practice (MCC) Health Information Technology (PC) Health Services Management (GWCC) Medical Assisting (MSC, PC, SWSC/EMCC) Medical Radiography (GWCC) Nuclear Medicine Technology (GWCC) Nursing (GCC, GWCC, MCC, PC, RSC, SCC) Physical Therapist Assisting (GWCC) Practical Nursing (GCC, GWCC, MCC, MSC, PC, SCC, SWSC/EMCC) Respiratory Care (GWCC) Surgical Technology (GWCC) Therapeutic Massage (CGCC, PC)

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 Maricopa Community Colleges and Skill Centers.

^{**} subject to change

Instructional Divisions

Most courses offered at CGCC fall under one of nine academic divisions. They include:

Aviation Division

Chairperson:

Harvey Stone ~ (480) 988-8115 Aviation & Technology Center

Williams Campus 7360 East Tahoe Avenue Mesa, AZ 85212

Courses:

ACT - Aircraft Construction Technologies

AET - Aeronautics

AMT - Aircraft Maintenance Technology

AVT - Avionics Technology

Occupational Programs:

Aircraft Construction Technologies

Composite Technology

Sheet Metal Structures Technology Aircraft Construction Technology

Aircraft Flight Technology Flight Technology

Airway Science Technology, Flight Emphasis

Aircraft Maintenance Technology

Airframe Maintenance (Part 147) Powerplant Maintenance (Part 147)

Aircraft Maintenance Technology (Part 147)

Aircraft Maintenance Technology

Avionics Technology

Avionics Technology

Aviation Electronics Maintenance Technology

Business and Computer Information Systems Division

Chairperson: Shirley Miller ~ (480) 732-7133

Courses:

ACC - Accounting

BPC - Business-Personal Computers
CIS - Computer Information Systems
CNT - Cisco Networking Technology

CSC - Computer Science GBS - General Business MGT - Management MKT - Marketing

MST - Microsoft Technology
OAS - Office Automation Systems
TQM - Total Quality Management

Occupational Programs:

Computer Applications

Microcomputer Applications:
Office Specialist/ Core Level
Microcomputer Applications:
Office Specialist/ Expert Level
Microcomputer Business Applications

Computer Database Administration and

Development

Microsoft Database Administration Oracle Database Operations Computer Hardware Maintenance

Computer Hardware and Desktop Support

Computer Networking

Networking Administration: Cisco Networking Technology: Cisco Microsoft Product Specialist Microsoft Systems Administration Microsoft Systems Engineer Microsoft Networking Technology

Computer Programming

Microsoft Solutions Development

General Business General Business

Communications and Fine Arts Division

Chairperson:

Kelley Kirkpatrick ~ (480) 732-7291

Courses:

ARH - Art Humanities

ART - Art

COM - Communication DAH - Dance Humanities

DAN - Dance

MCO - Mass Communications
MHL - Music: History/Literature
MTC - Music: Theory/Composition
MUC - Music: Commercial/Business
MUP - Music: Performance

MUP - Music: Performance SLG - Sign Language TCM - Telecommunications

THE - Theater

THP - Theater Performance/Production



Occupational Programs:

Art: Computer Illustration

Media Arts: Computer Art/Illustration

Art: Digital Photography

Media Arts: Digital Imaging

Languages and Humanities Division

Chairperson: Pamela Davenport ~ (480) 732-7135

Courses:

CRE - Critical Reading

ENG - English

ENH - English Humanities

ESL - English as a Second Language

FRE - French HUM - Humanities JRN - Journalism PHI - Philosophy

RDG - Reading Éducation REL - Religious Studies

SPA - Spanish

WAC - Writing Across Curriculum

Library Division

Chairperson: Barbara Stott \sim (480) 857-5137

Mathematics Division

Chairperson: Melinda Rudibaugh ~

(480) 732-7049

Courses:

MAT - Mathematics

Science Division

Chairperson: Brad Bates ~ (480) 988-8996

Courses:

AMS - Automated Manufacturing Systems

AST - Astronomy BIO - Biology

CAD - Computer-Aided Drafting

CHM - Chemistry

CSC - Computer Science
ECE - Engineering Science
EEE - Electrical Engineering
ELT - Electronics Technology
EUT - Electric Utility Technology

GLG - Geology

GPH - Physical Geography

PHS - Physical Science

PHY - Physics

Occupational Programs:

Automated Manufacturing Systems Electric Utility Technology

Social and Behavioral Sciences Division

Chairperson: Pamela Petty ~ (480) 732-7006

Courses:

AJS - Administration of Justice Studies

ASB - Anthropology

CFS - Child/Family Studies

CIA - Crime and Intelligence AnalysisECH - Early Childhood Education

ECN - Economics EDU - Education HIS - History POS - Political Science

POS - Political Scien
PSY - Psychology
SOC - Sociology
SWU - Social Work

Occupational Programs:

Criminal Justice

Crime and Intelligence Analysis

Developmental Disabilities

Developmental Disabilities Specialist

Wellness Division

Chairperson: Regina Munro $\sim (480) 732-7109$

Courses:

CPD - Counseling & Personal Development

EQS - Equine Science
 FON - Food & Nutrition
 FSC - Fire Science Technology
 GCO - Golf Course Operations
 HCC - Health Core Curriculum
 HCE - Health Care Education

HES - Health Science
PED - Physical Education
REC - Recreation

WED - Wellness Education

Occupational Programs:

Massage

Therapeutic Massage

Nutrition

Dietetic Technology

Occupational Programs Aircraft Construction Technologies

Composite Technology

Certificate of Completion: CCL 5568

34 Credits

Division Chairperson: Harvey Stone (480) 988-8115

Program Description

The Certificate of Completion in Composite Technology is designed for individuals who hold an FAA Airframe Certificate or who desire to specialize in areas of composite structural maintenance or repair. This program of study normally requires one semester to complete for licensed airframe mechanics.

PROGRAM	PREREQUISITES:	9-10 CREDITS	
+ENG071	Fundamentals of		
	Writing (3) OR		
Equivalent as indicated by assessment			
+MAT091	Introductory Algeb	ora (4) OR	
+MAT092	Introductory Algeb		
Equivalent as indicated by assessment3-4			
+RDG091	College Reading Sl	kills I (3) OR	
Equivalent as indicated by assessment			

REQUIRED	COURSES:	34 CREDITS
+AMT124	Aircraft Forms	and Regulations,

+AMT124AA	Weight and Balance, Drawings, and Ground Operations (5) OR Aircraft Forms and Regulations, Weight and Balance, Drawings,	
+AMT128	and Ground Operations: Part 65 (5)	
	Physics, Corrosion Control,	

Fluid Lines and Fittings (5) OR +AMT128AA Fundamentals of Aviation

+AMT220

Physics, Corrosion Control, Materials and Processes, Fluid Lines and Fittings: Part 65 (5) 5

Fundamentals of Aircraft

Materials and Processes,

Wood Structures, Covering and

Finishing, and Bonded Structures (3) OR

+AMT220AA	Fundamentals of Aircraft Wood	
	Structures, Covering and	
	Finishing, and Bonded	
	Structures: Part 65 (3) 3	
+AMT224	Aircraft Sheet Metal (5) OR	
+AMT224AA	Aircraft Sheet Metal:	
	Part 65 (5)	
+ACT201	Transport Category Aircraft	
	Maintenance Forms and	
	Documents	
+ACT205	Introduction to Aircraft	
	Structural Repair	
	Technology	
+ACT223	Composite Structural Repairs I 3	
+ACT227	Composite Structural Repairs II3	
+ACT240	Aircraft Structural Damage	
	Evaluation and Repair4	
	-	

Note: Individuals with a Federal Aviation Administration Airframe Certificate obtained on practical experience or from other Part 147 schools may obtain credit for the AMT courses through the "Department Credit By Evaluation" process.

Note: + indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

Sheet Metal Structures Technology

Certificate of Completion: CCL 5577

34 Credits

Division Chairperson: Harvey Stone (480) 988-8115

Program Description

The Certificate of Completion in Sheet Metal Structures Technology is designed for individuals who hold an FAA Airframe Certificate or who desire to specialize in areas of sheet metal structural maintenance or repair. This program of study normally requires one semester to complete for licensed airframe mechanics.



+ENG071 Equivalent as in +MAT091 +MAT092 Equivalent as in +RDG091	Fundamentals of Writing (3) OR ndicated by assessment
REQUIRED CO +AMT124	Aircraft Forms and Regulations, Weight and Balance, Drawings,
+AMT124AA	Weight and Balance, Drawings, and Ground Operations:
+AMT128	Part 65 (5) 5 Fundamentals of Aviation Physics, Corrosion Control, Materials and Processes,
+AMT128AA	Fluid Lines and Fittings (5) OR Fundamentals of Aviation Physics, Corrosion Control, Materials and Processes, Fluid
+AMT220	Lines and Fittings: Part 65 (5)5 Fundamentals of Aircraft Wood Structures, Covering and Finishing, and Bonded
+AMT220AA	Structures (3) OR Fundamentals of Aircraft Wood Structures, Covering and Finishing, and Bonded
+AMT224	Structures: Part 65 (3)
+AMT224AA	
+ACT201	Transport Category Aircraft Maintenance Forms and Documents
+ACT205	Introduction to Aircraft
+ACT213	Structural Repair Technology 3 Transport Category Sheet Metal Repairs I
+ACT217	Transport Category Sheet
+ACT240	Metal Repairs II

Note: Individuals with a Federal Aviation Administration Airframe Certificate obtained on practical experience or from other Part 147 schools may obtain credit for the AMT courses through the "Department Credit By Evaluation" process.

Note: + indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

Aircraft Construction Technology

Associate in Applied Science: AAS 3669 64-67 Credits

Division Chairperson: Harvey Stone (480) 988-8115

Program Description

The Aircraft Construction Technology certificate and degree programs are designed to prepare individuals for employment in specialized structural repair positions in the aircraft maintenance field. These programs build on the knowledge obtained through preparation for licensure as Federal Aviation Administration (FAA) airframe mechanics, but can be completed without completing the airframe license program if necessary. These programs are not certified under FAA Part 147, but serve to extend the Part 147 curriculum into specialized skill areas. Completion of the appropriate Certificate programs may lead to an Associate in Applied Science in Aircraft Construction Technology.

The **Certificate of Completion in Composite Technology** is designed for individuals who hold an FAA Airframe Certificate or who desire to specialize in areas of composite structural maintenance or repair. This program of study normally requires one semester to complete for licensed airframe mechanics.

The **Certificate of Completion in Sheet Metal Structures Technology** is designed for individuals who hold an FAA Airframe Certificate or who desire to specialize in areas of sheet metal structural maintenance or repair. This program of study normally requires one semester to complete for licensed airframe mechanics.

The Associate in Applied Science in Aircraft Construction Technology combines the technical aspects of the certificate programs with selected General Education courses in the areas of English, mathematics, reading, communications, humanities, and physics.

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REQUIRED CO		GENERAL EDU	CATION:	24-27 CREDITS
+AMT124	Aircraft Forms and Regulations, Weight and Balance, Drawings,	CORE:		15-17 CREDITS
	and Ground Operations (5) OR	First-Year Com	position	
+AMT124AA	Aircraft Forms and Regulations,		First-Year Composit	ion (3) AND
	Weight and Balance, Drawings,	+ENG111	Technical Writing (3	B) OR
	and Ground Operations:		First-Year Composit	ion for
A N #7T 1 0 0	Part 65 (5)		ESL (3) AND	.,
+AMT128	Fundamentals of Aviation		Technical Writing (3	3) 6
	Physics, Corrosion Control, Materials and Processes,	Oral Commun		
	Fluid Lines and Fittings (5) OR		eneral education cou	
+AMT128AA	Fundamentals of Aviation		cation area	3
	Physics, Corrosion Control,	Critical Readin	U	
	Materials and Processes, Fluid		Critical and Evaluati	ive
	Lines and Fittings:	Fauivalent as in	Reading I (3) OR dicated by assessmer	nt 3
ANTTOO	Part 65 (5)	Mathematics	dicated by assessine	11
+AMT220	Fundamentals of Aircraft Wood Structures, Covering		Intermediate Algebr	a (5) OR
	and Finishing, and Bonded		Intermediate Algebr	
	Structures (3) OR		dicated by assessmer	
+AMT220AA	Fundamentals of Aircraft	•	3	
	Wood Structures, Covering	DISTRIBUTION		9-10 CREDITS
	and Finishing, and Bonded	Humanities an		7-10 CKEDITS
ANATTOOA	Structures: Part 65 (3) 3		eneral education cou	irse in the
+AMT224	Aircraft Sheet Metal (5) OR Aircraft Sheet Metal: Part 65 (5) 5		Fine Arts area	
TAIVIILLAAAA	All Clair Sheet Wetai. 1 art 03 (3) 3		avioral Sciences	
+ACT201	Transport Category Aircraft		eneral education cou	ırse in the
	Maintenance Forms and		vioral Sciences area .	
	Documents	Natural Science	es	
+ACT205	Introduction to Aircraft	+PHY101 Intro	duction to Physics .	4
A CITIO 1 O	Structural Repair Technology 3		J	
+ACT213	Transport Category Sheet		es course has prerequ	iisites and/or
+ACT217	Metal Repairs I	corequisites.		
MCIZII	Metal Repairs II	Overall program	n minimum G.P.A. 2	2.00.
+ACT223	Composite Structural Repairs I 3			
+ACT227	Composite Structural Repairs II3	General Educati 139-141.	ion Requirements ar	e iisted on pages
+ACT240	Aircraft Structural Damage	105-141.		
	Evaluation and Repair 4			

Note: Individuals with a Federal Aviation Administration Airframe Certificate obtained on practical experience or from other Part 147 schools may obtain credit for the AMT courses through the "Department Credit By Evaluation" process.

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Aircraft Flight Technology

Flight Technology

Certificate of Completion: CCL 5707

29.5 Credits

Program Contact: Bashir Khalil (480) 988-8112

Program Description

The Certificate of Completion in Flight Technology curriculum is designed to prepare students to apply technical knowledge and skills to the aircraft flying and to prepare them to sit for the Federal Aviation Administration (FAA) written and practical examinations for Commercial Pilot Certificate with Single **Engine Airplane Land Rating and the Instrument** Rating, and the Multiengine Rating. Instruction includes aircraft design, systems, flight operations and procedures, radio communication and navigation, and governmental rules and regulations pertaining to aircraft operations.

Job Description

This program is designed to prepare students with the required Federal Aviation Administration certificates for initial employment as airplane pilots in a wide variety of entry-level, flight-related occupations such as flight instructor, banner tow pilots, jump plane pilots, etc. In some instances, additional specialized training will be required.

Flight Policies

Flight and simulator training costs are the responsibility of the student. They are determined on an hourly basis for aircraft and flight instruction, and are in addition to tuition, fees, and other registration expenses. Once students have been accepted into the CGCC Flight Technology program, they will not receive college credit for flight instruction received at flight schools other than the school or schools with which Maricopa County Community College District has currently contracted for such instruction.

Ground school courses must be taken concurrently with the appropriate flight courses.

Attendance is mandatory in the aviation ground school courses in accordance with Federal Aviation Regulation Part 141, Appendices A and D. Failure to meet these attendance requirements will disqualify the student for FAA pilot certification.

Transfer of Pilot Ratings

Students with a Private Pilot Certificate obtained without college credit must demonstrate proficiency and knowledge before enrolling in any 200-level ground or flight courses.

Students holding Commercial Pilot or Flight Instructor Certificates obtained without college credit are required to take the appropriate ground school courses, and complete the flight lessons contained in the Federal Aviation Regulations Part 141 Commercial Pilot Test Course.

Aviation and related courses from other colleges and universities will not automatically transfer to CGCC. All aviation transfer courses, flight or nonflight, are reviewed by the Aviation Division for transferability. Students with pilot certificates obtained with college credit at other institutions must demonstrate proficiency of each certificate and associated ratings before credit will be accepted to satisfy CGCC curriculum requirements.

In all cases, it is the responsibility of the student to initiate the process.

Medical Certificates

A current medical certificate is required for all students planning to begin flight training. The physical examination must be performed by a medical doctor who is a designated FAA Medical Examiner. Students are advised to obtain their medical certificates well in advance of beginning the flight program. This will ensure that medical problems or physical limitations that may alter career plans can be addressed before entering flight courses.

There are three types of medical certificates—Class III, Class II, and Class I. Students are advised to obtain a Class I certificate if they are planning a career in professional flight. Students must have at least a Class II medical before beginning 200-level flight courses.

Admission Criteria

Students must apply for acceptance into the Flight Technology program before enrolling in any 200level flight courses by completing an application available from the Aviation Division

PROGRAM NOTES

+ indicates course has prerequisites and/or corequisites.

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

Overall program minimum G.P.A. = 2.50.

PROGRAM PREREQUISITES: 13-15 CREDITS

Students must consult with a program advisor as the program prerequisites may be waived as requirements to the program for those students who have FAA Private Pilot Certificates and/or have course equivalents as indicated by assessment.

+AET107	Private Pilot Ground	
	School (5) AND	
+AET110	Private Pilot Flight (2) OR	
	FAA Private Pilot Certificate7	
+CRE101	Critical and Evaluative	
	Reading I (3) OR	
Equivalent as indicated by assessment		
+MAT120	Intermediate Algebra (5) OR	
+MAT121	Intermediate Algebra (4) OR	
+MAT122	Intermediate Algebra (3) OR	
Equivalent as indicated by assessment OR		
Satisfactory completion of a higher level		
mathematics course		

mathematics course3-5			
REQUIRED CO	URSES: 29.5 CREDITS		
AET115	Aviation Meteorology3		
+AET203	Basic Airplane Systems 2		
AET205	Aircraft Structures, Systems		
	and Maintenance 4		
+AET207	Attitude Instruments and		
	Navigation2		
+AET210	Commercial Pilot Flight I 2		
+AET213	Aerodynamics and Performance 2		
+AET215	Aircraft Powerplants4		
+AET217	Instrument Procedures		
+AET220	Commercial Pilot Flight II 2		
+AET225	Advanced Aircraft Systems 4		
+AET237	Multiengine Airplane Pilot		
	Ground School		
+AET240	Multiengine Airplane		
	Pilot Flight		

Airway Science Technology, Flight Emphasis

Associate in Applied Science: AAS 3707

65.5-67.5 Credits

Program Contact:

Bashir Khalil (480) 988-8112

Program Description

The Associate in Applied Science in Airway Science Technology, Flight Emphasis is designed to prepare students to apply technical knowledge and skills to the flying of commercial, agricultural, public service, corporate, or private airplanes, and to prepare students to sit for the Federal Aviation Administration (FAA) written and practical examinations for Commercial Pilot Certificate with Single Engine Airplane Land Rating; Instrument Rating; and the Multiengine Rating as well as the Flight Instructor Certificate with the Single Engine Airplane Land Rating. Students desiring to transfer to another institution for completion of a four-year degree should consult an advisor and the catalog of the institution to which they plan to transfer to determine specific requirements.

Job Description

The Associate in Applied Science in Airway Science Technology, Flight Emphasis Program is designed to prepare students with the required Federal Aviation Administration certificates for initial employment as airplane pilots in a wide variety of entry-level, flight-related occupations such as flight instructor, banner tow pilots, jump plane pilots, etc. In some instances, additional specialized training will be required. Students aspiring to employment with airlines can elect to use their flight instructor certificate to help build flight time in an economical manner.

Opportunities

While the aviation industry is cyclic, affected by both economic and military implications, indicators point to an increase in pilot hiring from 1995 through 2010. Job mobility within the aviation industry increases as flight experience increases. The experienced pilot who demonstrates quality flight techniques, willingness to learn, organizational skills, reliability, and good communication skills will find opportunities to advance into large aircraft operations, or other positions within the industry such as management, business owner, sales, corporate jet operator, or systems trainer



Flight Policies

Flight, altitude chamber, and simulator training costs are the responsibility of the student. They are determined on an hourly basis for aircraft and flight instruction, and are in addition to tuition, fees, and other registration expenses. Once students have been accepted into the CGCC Airway Science Technology, Flight Emphasis program, they will not receive college credit for flight instruction received at flight schools other than the school or schools with which Maricopa County Community College District has currently contracted for such instruction.

Ground school courses must be taken concurrently with the appropriate flight courses.

Attendance is mandatory in the aviation ground school courses in accordance with Federal Aviation Regulation Part 141, Appendices A and D. Failure to meet these attendance requirements will disqualify the student for FAA pilot certification.

Transfer of Pilot Ratings

Students with a Private Pilot Certificate obtained without college credit must complete the flight lessons contained in the Federal Aviation Regulations Part 141 Private Pilot Test Course before enrolling in any 200-level ground or flight courses.

Students holding Commercial Pilot or Flight Instructor Certificates obtained without college credit are required to take the appropriate ground school courses, and complete the flight lessons contained in the Federal Aviation Regulations Part 141 Commercial Pilot Test Course.

Aviation and related courses from other colleges and universities will not automatically transfer to CGCC. All aviation transfer courses, flight or nonflight, are reviewed by the Aviation Division for transferability. Students with pilot certificates obtained with college credit at other institutions must demonstrate proficiency of each certificate and associated ratings before credit will be accepted to satisfy CGCC curriculum requirements.

In all cases, it is the responsibility of the student to initiate the process.

Medical Certificates

A current medical certificate is required for all students planning to begin flight training. The physical examination must be performed by a medical doctor who is a designated FAA Medical Examiner. Students are advised to obtain their medical certificates well in advance of beginning the flight pro-

gram. This will ensure that medical problems or physical limitations that may alter career plans can be addressed before entering flight courses.

There are three types of medical certificates—Class III, Class II, and Class I. Students are advised to obtain a Class I certificate if they are planning a career in professional flight. Students must have at least a Class II medical before beginning 200-level flight courses.

Admission Criteria

Students must apply for acceptance into the Associate in Applied Science in Airway Science Technology, Flight Emphasis program before enrolling in any 200-level flight courses by completing an application available from the Aviation Division

PROGRAM NOTES:

+ indicates course has prerequisites and/or corequisites.

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

Overall program minimum G.P.A. = 2.50.

PROGRAM PREREQUISITES: 13-15 CREDITS

Students must consult with a program advisor as the program prerequisites may be waived as requirements to the program for those students who have FAA Private Pilot Certificates and/or have course equivalents as indicated by assessment.

+AET107	Private Pilot Ground
	School (5) AND
+AET110	Private Pilot Flight (2) OR
FAA Private I	Pilot Certificate
+CRE101	Critical and Evaluative
	Reading I (3) OR
Equivalent as	indicated by assessment
+MAT120	Intermediate Algebra (5) OR
+MAT121	Intermediate Algebra (4) OR
	Intermediate Algebra (3) OR
Equivalent as	indicated by assessment OR
Satisfactory c	ompletion of a higher level
	course3-5
REQUIRED C	
AET115	Aviation Meteorology3
⁻ VEL3U3	Pacie Airplana Systems 9

REQUIRED	COURSES:	40.5 CREDITS
AET115	Aviation Meteoro	ology3
+AET203		/stems 2
+AET205	Aircraft Structure	es, Systems,
	and Maintenance	e 4
+AET207	Attitude Instrum	ents and
	Navigation	
+AET210	Commercial Pilo	t Flight I2
+AET213	Aerodynamics an	nd Performance2

+AET215	Aircraft Powerplants4	+ENG111 Tecl	hnical Writing (3) OR
+AET217	Instrument Procedures 2		t-Year Composition
+AET220	Commercial Pilot Flight II 2		ESL (3)
+AET225	Advanced Aircraft Systems 4	Oral Communicati	ion
+AET227	Certified Flight Instructor:	+COM225 Pub	lic Speaking
	Airplane, Single Engine Land	Critical Reading	. 0
	Ground School 4	Met by CRE101 in	Program Prerequisites area0
+AET230	Certified Flight Instructor:	Mathematics	
	Airplane, Single Engine Land 1	+MAT187 Pred	calculus (5) OR
+AET237	Multiengine Airplane Pilot	Equivalent as indica	ted by assessment OR
	Ground School 2	Satisfactory complete	tion of a higher
+AET240	Multiengine Airplane Pilot	level mathematics co	ourse
	Flight		
+AET257	Readings in Aviation3	DISTRIBUTION:	9-10 CREDITS
CIS105	Survey of Computer	Humanities and Fi	ne Arts
	Information Systems 3		al education course in the
			ne Arts area2-3
RESTRICTED		Social and Behavio	
+AET253	Avionics for Pilots3		croeconomic Principles 3
AET259	Human Factors 2	Natural Sciences	
+AET290	Flight Physiology 3	+PHY111 Gen	neral Physics I 4
GENERAL EDU	JCATION: 23-24 CREDITS		Requirements are listed on pages
		139-141.	
CORE:	14 CREDITS		
First-Year Con			
+ENG101	First-Year Composition (3) AND		
+ENG111	Technical Writing (3) OR		
+ENG102	First-Year Composition (3) OR		
+ENG107			
	First-Year Composition for ESL (3) AND		

Aircraft Maintenance Technology

Airframe Maintenance (Part 147) Certificate of Completion: CCL 5668

32 Credits

Division Chairperson: Harvey Stone (480) 988-8115

Program Description

The Certificate of Completion in Airframe Maintenance (Part 147) Program is designed for individuals who hold an FAA Powerplant Certificate or who desire to specialize in areas of structural maintenance or repair. This certificate provides the necessary knowledge to continue into areas of avionics, composites, or heavy structures specializations. This program of study normally requires two semesters to complete if the prerequisites have been met. Students wishing to enroll in this Part 147 Certificate program

must complete an application process before being officially accepted into the program.

The program prerequisites normally require one or more semesters to complete.

PROGRAM	PREREQUISITES:	29 CREDITS
+ENG071	Fundamentals of Wr	iting (3) OR
Equivalent a	s indicated by assessmen	t 3
+MAT091	Introductory Algebra	a (4) OR
+MAT092	Introductory Algebra	a (3) OR
Equivalent a	s indicated by assessmen	t 3-4
+RDG091	College Reading	
	Skills I (3) OR	
Equivalent a	s indicated by assessmen	t 3
AÑD	v	
+AMT124	Aircraft Forms and F	Regulations,
	Weight and Balance,	
	and Ground Operati	
	•	



+AMT126 +AMT128	Fundamentals of Mathematics and Electricity		ogram must complete an application e being officially accepted into the pro-
	Physics, Corrosion Control, Materials and Processes, Fluid Lines and Fittings5		prerequisites normally require one or rs to complete.
Aviation Gen score of 70 po AND	f the Department or Division.	+ENG071 Equivalent as +MAT091 +MAT092 Equivalent as +RDG091	indicated by assessment
+AMT222	Atmosphere Control, Fire Protection, Ice and Rain Protection Systems	+AMT126	and Ground Operations 5 Fundamentals of Mathematics and Electricity
+AMT224 +AMT226	Aircraft Sheet Metal 5 Aircraft Landing Gear, Hydraulic, Pneumatic, Fuel, Position and Warning Systems 7	+AMT128	Fundamentals of Aviation Physics, Corrosion Control, Materials and Processes, Fluid Lines and Fittings
+AMT228 +AMT230	Aircraft Electrical Systems, Instruments, Fuel Indicating, Communication and Navigation Systems	Aviation Gen- score of 70 pe AND	FAA Airframe Certificate and pass an eral Subject exam with a minimum ercent.
Note: + indic	and Welding	Permission of	the Department or Division. OURSES: 33 CREDITS
corequisites	ates course has prerequisites and/or	+AMT263 +AMT264	Aircraft Turbine Engines 5 Aircraft Reciprocating Engines 7
Overall progr	ram minimum G.P.A. 2.00.	+AMT266	Engine Fuel System, Fuel Metering and Induction
Powerpla	ant Maintenance	+AMT268	System
(Part 147	7)	+AMT270	and Starter Systems 6 Engine Instruments,
Certificate of 33 Credits	of Completion: CCL 5669		Fire Protection and Lubrication, Cooling and Exhaust Systems
Division Cha Harvey Stone	nirperson: e (480) 988-8115	+AMT272	Propeller Systems and Engine Inspections
Program De	escription ate of Completion in Powerplant	Note: + indic corequisites.	rates course has prerequisites and/or

The Certificate of Completion in Powerplant
Maintenance (Part 147) Program is designed for individuals who hold an FAA Airframe Certificate or who desire to specialize in areas of engine maintenance or repair. This program of study normally requires two semesters to complete if the prerequisites have been met. Students wishing to enroll in this Part 147

Overall program minimum G.P.A. 2.00.

Aircraft Maintenance	Technology
(Part 147)	33

Certificate of Completion: CCL 5670

65 Credits

Division Chairperson: Harvey Stone (480) 988-8115

Program Description

The Certificate of Completion in Aircraft Maintenance Technology (Part 147) Program is designed for individuals who want to prepare for the FAA Airframe and Powerplant Certificates but are limited by funding agencies to a single continuing program of study. This program of study normally requires four semesters to complete if the prerequisites have been met. Students wishing to enroll in this Part 147 Certificate program must complete an application process before being officially accepted into the program.

The program prerequisites normally require one or more semesters to complete.

PROGRAM PR	EREQUISITES: 19-29 CREDITS
+ENG071	Fundamentals of Writing (3) OR
Equivalent as in	ndicated by assessment
+MAT091	Introductory Algebra (4) OR
+MAT092	Introductory Algebra (3) OR
Equivalent as in	ndicated by assessment
+RDG091	College Reading Skills I (3) OR
Equivalent as in	ndicated by assessment
AÑD	·
+AMT124	Aircraft Forms and Regulations,
	Weight and Balance, Drawings,
	and Ground Operations 5
+AMT126	Fundamentals of Mathematics
	and Electricity 9
+AMT128	Fundamentals of Aviation
	Physics, Corrosion Control,
	Materials and Processes,
	Fluid Lines and Fittings 5
AND	G

Permission of the Department or Division.

REQUIRED	COURSES:	65 CREDITS
+AMT220	Fundamentals o	f Aircraft Wood
		ering and Finishing
		uctures
+AMT222	Atmosphere Co	ntrol, Fire
	Protection, Ice a	nd Rain
		ms 4
+AMT224	Aircraft Sheet M	Ietal 5
+AMT226	Aircraft Landing	g Gear,
	Hydraulic, Pneu	ımatic, Fuel,
	Position and Wa	rning Systems 7
+AMT228	Aircraft Electric	al Systems,
	Instruments, Fu	el Indicating,
	Communication	n and
		ems
+AMT230	Airframe Assem	
	and Welding	
+AMT263		Engines5
+AMT264		cating Engines 7
+AMT266	Engine Fuel Sys	
		duction System6
+AMT268	Engine Électrica	
		6
+AMT270	Engine Instrum	
	Protection and I	
		haust Systems 5
+AMT272	Propeller System	
	Engine Inspection	ons4

Note: + indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

Aircraft Maintenance Technology

Associate in Applied Science: AAS 3670 89-92 Credits

Division Chairperson: Harvey Stone (480) 988-8115

Program Description

The Aircraft Maintenance Technology (AMT) certificate and degree programs are designed to prepare students for licensure as certified airframe, powerplant, or airframe and powerplant (A&P) technicians and for employment in entry-level positions in the aircraft maintenance field.

PART 147: The Part 147 curriculum meets Federal Aviation Administration (FAA) requirements for the number of hours of instruction and for the level and type of competency expected of the students in general, airframe, and powerplant subject areas. Completion of the appropriate Certificate program/s may lead to an Associate in Applied Science in Aircraft Maintenance Technology degree. Students wishing to enroll in a Part 147 Certificate program must complete an application process before being officially accepted into the program.

The Certificate of Completion in Airframe Maintenance (Part 147) is designed for individuals who hold an FAA Powerplant Certificate or who desire to specialize in areas of structural maintenance or repair. This Certificate provides the necessary knowledge to continue into areas of avionics, composites, or heavy structures specializations. This program of study normally requires two semesters to complete if the program prerequisites have been met.

The **Certificate of Completion in Powerplant Maintenance (Part 147)** is designed for individuals who hold an FAA Airframe Certificate or who desire to specialize in areas of engine maintenance or repair. This program of study normally requires two semesters to complete if the program prerequisites have been met.

The Certificate of Completion in Aircraft
Maintenance Technology (Part 147) is designed for
individuals who want to prepare for FAA Airframe
and Powerplant Certificates but are limited by funding agencies to a single continuing program of study.
This program of study normally requires four semesters to complete if the program prerequisites have
been met.

The program prerequisites normally require one or more semesters to complete.

The Associate in Applied Science in Aircraft Maintenance Technology degree combines the technical aspects of the Certificate programs with selected General Education courses in the areas of English, math, reading, communications, humanities, and physics.

PART 65: The Part 65 curriculum is designed for those students who wish to gain specific knowledge and skills in the aircraft maintenance field or are pursuing Federal Aviation Administration certification under Federal Aviation Regulation, Part 65.77. Students benefiting from these courses would include aircraft maintenance apprentices, pilots, kit aircraft builders, aircraft enthusiasts, and past and current military personnel who have worked in aircraft maintenance. Completion of the Part 65 courses may lead to an Associate in Applied Science in Aircraft Maintenance Technology degree. Students wishing to enroll in the Part 65 courses must have the permission of the Department or Division and will be accepted on a first-come, first-served, space-available basis only.

Job Description

Aviation maintenance technicians inspect the engines, landing gear, instruments, pressurized sections, accessories, and other parts of the aircraft, and perform necessary maintenance. Technicians use precision instruments and non-destructive inspection equipment. They also repair sheet metal or composite surfaces and check for corrosion, distortion, and cracks in the aircraft structure. After completing repairs, mechanics must test them to ensure that they work properly.

Aviation maintenance technicians must perform careful and thorough work requiring a high degree of mechanical aptitude. Frequently, they must lift or pull as much as 50 pounds. They often stand, lie, or kneel in awkward positions and occasionally must work in precarious positions on scaffolds or ladders. Noise and vibration are common when testing engines. Aviation maintenance technicians generally work 40 hours a week on 8-hour shifts around the clock.

Aviation maintenance technicians who work on civilian aircraft are certificated by the Federal Aviation Administration (FAA) as airframe mechanic, power-plant mechanic, or combination airframe and power-plant (A&P) mechanics who can work on nearly any part of the plane. Although a few people become Aviation maintenance technicians through on-the-job training, most learn their job in one of the schools certified by the FAA under Federal Aviation Regulation Part 147. FAA standards require certificated schools offer students at least 1,900 class hours.

+AMT126AA Fundamentals of Mathematics

Opportunities

According to the 1994-95 Occupational Outlook Handbook, over 60% of salaried aviation maintenance technicians work for airlines, nearly 20% for aircraft manufacturers, and nearly 15% for the federal government. Most of the rest are general aviation mechanics, the majority of whom work for independent repair shops or companies that operate their own planes to transport executives and cargo.

CGCC Aircraft Maintenance Technology students are in high demand. For example, during the 1997-98 school year, 100% of those students interested in going directly into the work force were successfully placed in industry-related positions.

Employers seek applicants who are self-motivated, hard-working, enthusiastic, and able to diagnose and solve complex mechanical problems. Employers prefer technicians who can perform a wide variety of tasks. Courses in mathematics, physics, chemistry, electronics, computer science, and mechanical drawing are helpful. Courses that develop writing skills are also important because aviation maintenance technicians are often required to submit written reports.

As aviation maintenance technicians gain experience, they may have opportunity for advancement, especially if they continue their training. A technician may advance to crew chief, inspector, lead inspector, or shop supervisor. Those with broad experience sometimes become inspectors with the FAA. With additional business and management training, some open their own aircraft maintenance facilities.

PROGRAM PRI	EREQUISITES: 19-29 CREDI	TS
+ENG071	Fundamentals of Writing (3) OR	
	ndicated by assessment	.3
	Introductory Algebra (4) OR	
+MAT092		
Equivalent as in	ndicated by assessment	3-4
	College Řeading Skills I (3) OR	
Equivalent as in	ndicated by assessment	.3
AND	· ·	
+AMT124	Aircraft Forms and Regulations,	
	Weight and Balance, Drawings,	
	and Ground Operations (5) AND)
+AMT126	Fundamentals of Mathematics	
	and Electricity (9) AND	
+AMT128	Fundamentals of Aviation	
	Physics, Corrosion Control,	
	Materials and Processes,	
	Fluid Lines and Fittings (5) OR	
+AMT124AA		
	Weight and Balance, Drawings,	
	and Ground Operations:	
	Part 65 (5) AND	

	and Electricity: Part 65 (9) AND
+AMT128AA	Fundamentals of Aviation
	Physics, Corrosion Control,
	Materials and Processes,
	Fluid Lines and Fittings:
	Part 65 (5)
AND	(,,
	he Department or Division.
	·
REQUIRED CO	
Certificate of C	Completion in Airframe
	Part 147) (32) AND
	Completion in Powerplant
	Part 147) (33) OR
	Completion in Aircraft
Maintenance T	Technology (Part 147) (65) 65
OR	
+AMT220AA	Fundamentals of Aircraft
	Wood Structures, Covering
	and Finishing and Bonded
	Structures: Part 653
+AMT222AA	Atmosphere Control, Fire
	Protection, Ice and Rain
	Protection Systems: Part 65 4
+AMT224AA	Aircraft Sheet Metal: Part 65 5
	Aircraft Landing Gear,
	Hydraulic, Pneumatic, Fuel,
	Position and Warning Systems:
	Part 65
+AMT228AA	Aircraft Electrical Systems,
	Instruments, Fuel Indicating,
	Communication and
	Navigation Systems: Part 65 7
+AMT230AA	Airframe Assembly, Inspection,
	and Welding: Part 656
+AMT263AA	Aircraft Turbine Engines:
	Part 65
+AMT264AA	Aircraft Reciprocating Engines 7
	Engine Fuel System, Fuel
	Metering and Induction System:
	Part 65
+AMT268AA	
	Starter Systems: Part 65 6
+AMT270AA	
	Protection and Lubrication,
	Cooling and Exhaust Systems:
	Part 65
+AMT272AA	
	Inspections: Part 654
	1

GENERAL ED	JCATION:	24-27 CREDITS	DISTRIBUTION	ON:	9-10 CREDITS
core: First-Year Cor	mposition	15-17 CREDITS	Any approved	and Fine Arts d general education o	
+ENG101	First-Year Compos	sition (3) AND		and Fine Arts area .	
+ENG111	Technical Writing	(3) OR		Sehavioral Sciences	
+ENG107	First-Year Compos	sition		d general education o	
	for ESL (3) AND		Social and Be	ehavioral Sciences are	a3
+ENG111	Technical Writing	(3) 6	Natural Scie	ences	
Oral Communication			+PHY101	Introduction to P	hysics4
Any approved general education course in the Oral Communication area			Note: + indicorequisites.	cates course has prere	equisites and/or
Critical Read	U		corequisites.		
+CRE101	Critical and Evalu Reading I (3) OR		Overall progr	ram minimum G.P.A	. 2.00.
Equivalent as indicated by assessment			General Edu	cation Requirements	are listed on pages
Mathematics			139-141.		
	Intermediate Alge Intermediate Alge ndicated by assessm	bra (3) OR			

Art: Computer Illustration

Media Arts: Computer Art/Illustration

Certificate of Completion: CCL 5881

16 Credits

Program Contact:

Ted Wolter (480) 732-7089

Program Description

This program is designed for the student who wishes to develop an area of specialization in Computer Art/Illustration. The program acquaints the student with art principles and assists the students in developing their abilities to solve design and compositional problems as related to the art. It allows for the development of an individual's personal interest in this area, prepares students for employment, and upgrades skills of those already employed in this field.

Employment opportunities are included in multimedia such as illustrator, artist, designer, paste-up artist, freelance artist-designer, graphic design artist, or multimedia artist.

PROGRAM NOTES:

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

+ indicates course has prerequisites and/or corequisites

Overall program minimum G.P.A. 2.00.

REQUIRED CO	URSES: 1	6 CREDITS
ART100	Introduction to Compute	er
	Graphic Art	1
ART111	Drawing I	3
ART116	Life Drawing I	3
+ART169	Two-Dimensional Comp	uter
	Design	
+ART173	Computer Art (3) OR	
+ART177	Computer Photographic	
	Imaging (3)	3
+ART289	Computer Illustration .	

Art: Digital Photography

Media Arts: Digital Imaging

Certificate of Completion: CCL 5879

16 Credits

Program Contact: Ted Wolter (480) 732-7089

Program Description

This program, designed for the student who wishes to develop marketable skills in the area of photography and digital imaging, provides the student with an understanding of film, cameras, and film equipment; a knowledge of photography terminology; and digital imaging tools and processes. It prepares students for employment and upgrades the skills of persons already employed in this field. Knowledge and skills can be applied to such occupational areas as media production, marketing, graphic production, desktop publishing, multimedia, service bureau and customer service, and web page production. Sample job titles

could be artist, photographer, designer, and freelance artist-designer.

PROGRAM NOTES:

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

REQUIRED C	OURSES: 16	CREDITS
ART100	Introduction to Compute	r
	Graphic Art	1
ART131	Photography I	3
+ART132	Photography II	3
+ART177	Computer-Photographic	Imaging 3
+ART270	Intermediate Computer	0 0
	Photographic Imaging	3
+ART274	Advanced Computer	
	Photographic Imaging	3

Automated Manufacturing

Automated Manufacturing Systems

Certificate of Completion: CCL 5184

38.5-40.5 Credits

Program Contact:

Academic Advisement (480) 988-8180

Program Description

The Certificate of Completion in Automated Manufacturing Systems is designed to provide students with the knowledge and skills for employment as automated manufacturing technicians. The program focuses on the installation and troubleshooting of electronic and electro-mechanical systems as well as utilizing state-of-the-art tools to program and maintain automated assembly and robotic equipment.

PROGRAM NOTES:

+ indicates course has prerequisites and/or corequisites.

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

Overall program minimum G.P.A. = 2.00.

REQUIRED C	OURSES: 38.5-40.5 CREDITS
AMS101	Introduction to Automated
	Manufacturing2.5
AMS110	Programming Automated
	Equipment3
+AMS120	Fluid Power and Programmable
	Logic Controllers (PLC)3
+AMS130	Vacuum Technologies3
+AMS150	Digital Systems and
	Microprocessors4
+AMS160	Linear Circuits
+AMS210	Electro-Mechanical Devices 3
+AMS220	Automated Manufacturing
	Processes
CAD103A	
	Manufacturing1
+ELE113	DC Circuit Analysis 4
+ELE114	AC Circuit Analysis 4
+MAT120	Intermediate Algebra (5) OR
+MAT121	Intermediate Algebra (4) OR
+MAT122	Intermediate Algebra (3) 3-5
NET181A	A Visual BASIC for the
	Technologies I

170

Automated Manufacturing Systems

Associate of Applied Science: AAS 3854 60.5-62.5 Credits

Program Contact:

Academic Advisement (480) 988-8180

Program Description

The Associate in Applied Science in Automated Manufacturing Systems is designed to provide students with the knowledge and skills for employment as automated manufacturing technicians. The program focuses on the installation and troubleshooting of electronic and electro-mechanical systems as well as utilizing state-of-the-art tools to program and maintain automated assembly and robotic equipment.

PROGRAM NOTES:

+ indicates course has prerequisites and/or corequisites.

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

Overall program minimum G.P.A. = 2.00.

REQUIRED C	
AMS101	Introduction to Automated
	Manufacturing2.5
AMS110	Programming Automated
	Equipment
+AMS120	Fluid Power and Programmable
	Logic Controllers (PLC)3
+AMS130	Vacuum Technologies3
+AMS150	Digital Systems and
	Microprocessors4
+AMS160	Linear Circuits3.5
+AMS210	Electro-Mechanical Devices 3
+AMS220	Automated Manufacturing
	Processes
CAD103AA	Basic Print Reading for
	Manufacturing1
+ELE113	DC Circuit Analysis4
+ELE114	AC Circuit Analysis 4
+MAT120	Intermediate Algebra (5) OR
+MAT121	Intermediate Algebra (4) OR
+MAT122	Intermediate Algebra (3) 3-5
NET181AA	
	Technologies I 1.5

GENERAL ED	UCATION:	22 CREDITS
CORE		12 CREDITS
First-Year Co	mposition	
+ENG101	First-Year Composi	ition (3) AND
+ENG111	Technical Writing	
+ENG102	First-Year Composi	ition (3) OR
+ENG107	First-Year Composi	ition
	for ESL (3) AND	
+ENG111	Technical Writing	(3) OR
+ENG108	First-Year Composi	ition
	for ESL (3)	6
Oral Commu	ınication	
Any approved	general education co	urse in the
Oral Commu	nication area	3
Critical Read	ing	
	Critical and Evalua	tive
. 0112101	Reading I (3) OR	
Equivalent as	indicated by assessme	ent 3
Mathematics	3	
		MAT121 in the
+Met by MAT120 or MAT121 or MAT121 in the required courses area		
required cours	ocs area	
DISTRIBUTIO	N	10 CREDITS
Humanities a	and Fine Arts	
Any approved	general education co	ourse in the
Humanities a	nd Fine Arts area	3
	ehavioral Sciences	
	general education co	urse in the
	havioral Sciences area	
Natural Scien		
	roduction to Physics	1
71111101 III	roduction to 1 mysics	
General Educ 139-141.	ation Requirements a	re listed on pages

Avionics Technology

Avionics Technology

Certificate of Completion: CCL 5666 48 Credits

Program Contact: Bashir Khalil (480) 988-8112

Program Description

The Certificate of Completion in Avionics Technology provides training for the entry-level position in line maintenance and troubleshooting of aircraft communications and navigation equipment. The program develops an understanding of electronics theory, avionics system theory, avionics equipment operation, system design analysis, and logistic support.

Job Description

The Avionics Technician works on the flight line or in the aircraft hangar testing, troubleshooting, performing minor repairs, performing aircraft and integrated electronic system operational and functional check outs, evaluating avionic system malfunctions, removing and installing avionics equipment, and completing required aircraft documentation log book entries.

Opportunities

The Avionics Technician who demonstrates analytical troubleshooting techniques, a willingness to learn, organizational skills, reliability, and good communication skills will find opportunities to advance into other positions within the industry such as management, business owner, sales, or systems trainer.

Program Application Process

Students wishing to enroll in Certificate of Completion in Avionics Technology must complete an application process before being officially accepted into the program.

PROGRAM PR	EREQUISITES:	18 CREDITS
+AMT126	Fundamentals of	Mathematics
	and Electricity (9) OR
+AMT126AA	Fundamentals of	
	and Electricity: I	Part 65 (9) OR
Pass an exam o		analysis, solid-state
	gital logic circuits	
score of 70 per		
	ent documentation	of related work
	or equivalent coll	
	Critical and Eval	
	Reading I (3) OF	
Equivalent as i		nent
	Fundamentals of	
		nent
+MAT122		
		nent
AND	indicated by assessi	110110
	Department or Div	zision
T OTTITION OF I		101011.

REQUIRED CO	OURSES: 48 CREDITS
+AVT110	Introduction to Avionics 6
+AVT115	Communication and
	Navigation Basic Circuits
+AVT120	Avionics: Airframe Systems
	Interfacing I6
+AVT128	Advanced Electrical and
	Electronics
+AVT155	Avionics: Airframe and Engine
	Systems Interfacing II6
+AVT225	Navigation Systems: Basic 6
+AVT250	Navigation Systems:
	Advanced6
+AVT260	Navigation Systems: Long
	Range

Note: + indicates course has prerequisites and/or corequisite.

Overall program minimum G.P.A. 2.00.



Aviation Electronics Maintenance Technology

Associate in Applied Science: AAS 3666

66-73 Credits

Program Contact: Bashir Khalil (480) 988-8112

Program Description

The Associate in Applied Science in Aviation Electronics Maintenance Technology is designed to prepare students to apply technical knowledge and skills for employment in the specialized aviation electronic maintenance positions in the aircraft maintenance field. The program of study combines the technical aspects of the certificate program with selected General Education courses in the area of English, mathematics, reading, communications, humanities, and physics. Students desiring to transfer to another institution for completion of a four-year degree should consult an advisor and the catalog for the institution to which they plan to transfer to determine specific requirements.

Job Description

The Associate in Applied Science in Aviation Electronics Maintenance Technology is designed to prepare students for initial employment as Avionics Technicians in a wide variety of entry-level occupations associated with the Avionics Installer Technician position. In some instances, additional specialized on-the-job training will be required.

Opportunities

The Avionics Technician who demonstrates analytical troubleshooting techniques, a willingness to learn, organizational skills, reliability, and good communication skills will find opportunities to advance into other positions within the industry such as management, business owner, sales, or systems trainer.

Program Application Process

Students wishing to enroll in Associate in Applied Science in Aviation Electronics Maintenance Technology must complete an application process before being officially accepted into the program.

PROGRAM PREREQUISITES: 18 CREDITS

+AMT126 Fundamentals of Mathematics and Electricity (9) OR +AMT126AA Fundamentals of Mathematics and Electricity: Part 65 (9)OR

Pass an exam o	n electrical circuit anal	ysis,
solid-state devices, and digital logic circuits		
with a minimum score of 70 percent OR		
	ent documentation of 1	
work experience	ce and/or equivalent co	llege
	oleted	
+CRE101	Critical and Evaluativ	ve .
	Reading I (3) OR	
Equivalent as i	ndicated by assessment	:
+ENG071	Fundamentals of Wri	ting (3) OR
	ndicated by assessment	
	Intermediate Algebra	
Equivalent as i	ndicated by assessment	:
AND	•	
Permission of I	Department or Divisio	n.
REQUIRED CO	IIDSES:	48 CREDITS
+AVT110	Introduction to Avior	
+AVT115	Communication and	
171 1110	Navigation Basic Circ	
+AVT120	Avionics: Airframe S	vstems
171 V 1 120	Interfacing I	
+AVT128	Advanced Electrical a	
1/1 V 1 120	Electronics	
+AVT155	Avionics: Airframe a	nd Engine
171 V 1 100	Systems Interfacing I	ind Englis I 6
+AVT225	Systems Interfacing I Navigation Systems:	Rasic 6
+AVT250	Navigation Systems:	Advanced 6
+AVT260	Navigation Systems:	Long
TAV 1200	Range	
GENERAL EDU	JCATION: 1	8-25 CREDITS
CORE:		9-15 CREDITS
First-Year Con	mposition	
+ENG101	First-Year Composition	on (3) AND
+ENG111	Technical Writing (3)	
+ENG107	First-Year Composition	
	for ESL (3) AND	
+ENG111	Technical Writing (3)	6
Oral Commu	•	
+COM230	Small Group Commi	inication3
Critical Readi	-	
	™s 01 in Program Prerequ	icitoc
area (3) OR	n in rhograin rheiequ	isites
	ndicated by accomment	
	ndicated by assessment	
Mathematics		(a)
+MAT182	Plane Trigonometry (
Equivalent as i	ndicated by assessment	:
DISTRIBUTION: 9-10 CREDITS		
Humanities a		
	general education cour	se in the
LALLY UPPLOYEU	Somethic Contraction Com-	JU 111 LIIU

Humanities and Fine Arts area2-3

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Note: + indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

General Education Requirements are listed on pages 139-141.

Computer Applications

Microcomputer Applications: Office Specialist/Core Level

Certificate of Completion: CCL 5644

12.5 Credits

Program Contacts:

Shirley Miller (480) 732-7133 shirley.miller@cgcmail.maricopa.edu

Cathy Urbanski (480) 732-7011 cathy.urbanski@cgcmail.maricopa.edu

Program Description

The Certificate of Completion in Microcomputer Applications: Office Specialist/Core Level program is designed to provide the basic skills needed in the use of microcomputer software applications for entry-level employment as clerks, typists, word processors, receptionists, and other administrative support positions for a wide variety of employers. Course work includes the Windows operating system, the Internet, and software applications for word processing, electronic spreadsheet, database management, electronic mail, and presentation graphics. Students who complete this certificate will be prepared for the Core examinations for certification as a Microsoft Office Specialist (MOS).

PROGRAM NOTES:

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

REQUIRED CO	URSES: 7.5 CREDITS
	Microsoft Outlook: Level I 0.5
BPC114AE	Excel: Level I
BPC117AM	Database Management:
	Microsoft Access – Level I
BPC118AB	PowerPoint Level I
	Windows Operating System:
	Level I
BPC135DK	Word Processing Software:
	Word
CIS133AA	The Internet/World Wide Web:
	Level I

RESTRICTED ELECTIVES: Students should select five (5) credits from the following courses in consultation with a program advisor: ACC111 Accounting Principles I 3 +ACC115 Computerized Accounting (Quicken or Quickbooks) 2 ART100 Introduction to Computer BPC101AA Introduction to Microcomputers I: IBM1 +BPC101BA Introduction to Microcomputers II: IBM1 BPC111AA Computer Keyboarding I 1 +BPC111AB Computer Keyboarding II 1 BPC121AB MS-DOS Operating System 1 +CIS133BA The Internet/World Wide Web: +CIS233AA Web Design and Publishing I 1 +CIS233BA Web Design and Publishing II . . . 1 **OAS108**



Microcomputer Applications: Office Specialist/Expert Level

Certificate of Completion: CCL 5024 25 Credits

Program Contacts: Shirley Miller (480) 732-7133 shirley.miller@cgcmail.maricopa.edu

Cathy Urbanski (480) 732-7011 cathy.urbanski@cgcmail.maricopa.edu

Program Description

The Certificate of Completion in Microcomputer Applications: Office Specialist/Expert Level program is designed to provide the advanced skills needed in the use of microcomputer software applications for employment as secretaries, executive secretaries, and administrative assistants in organizations of every description. Coursework includes business English, the Internet, presentation graphics, and the Windows operating system along with advanced software applications for electronic mail, word processing, electronic spreadsheet, and database management. Students who complete this certificate will be prepared for the Expert examinations for certification as a Microsoft Office Specialist (MOS).

PROGRAM NOTES:

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

REQUIRED CO	URSES: 16 CREDITS
BPC106AH	Microsoft Outlook: Level I 0.5
+BPC106BH	Microsoft Outlook: Level II 0.5
BPC114AE	Excel: Level I
+BPC114BE	Excel: Level II
BPC117AM	Database Management:
	Microsoft Access – Level I 1
+BPC117BM	Database Management:
	Microsoft Access – Level II 1
BPC118AB	PowerPoint Level I
BPC121AE	Windows Operating System:
	Level I
+BPC135DK	Word Processing Software:
	Word2
+BPC235DK	Advanced Word Processing
	Software: Word
CIS133AA	The Internet/World Wide Web:
	Level I

+CIS133BA	The Internet/World Wide Web:
	Level II
OAS108	Business English
RESTRICTED	
Students should	l select nine (9) credits from the following
courses in consu	ultation with a program advisor:
ACC111	Accounting Principles I 3
+ACC115	Computerized Accounting
	(Quicken or Quickbooks) 2
ART100	Introduction to Computer
	Graphic Art
BPC101AA	Introduction to
	Microcomputers I: IBM1
+BPC101BA	Introduction to
	Microcomputers II: IBM1
BPC111AA	Computer Keyboarding I 1
+BPC111AB	Computer Keyboarding II 1
BPC121AB	MS-DOS Operating System 1
CIS105	Survey of Computer
	Information Systems3
+CIS233AA	The Internet Web Publishing I 1
+CIS233BA	The Internet Web Publishing II 1
GBS151	Introduction to Business 3

Microcomputer Business Applications

Associate in Applied Science: AAS 3548 64 Credits

Program Contacts: Shirley Miller (480) 732-7133 shirley.miller@cgcmail.maricopa.edu

Cathy Urbanski (480) 732-7011 cathy.urbanski@cgcmail.maricopa.edu

Program Description

The Associate of Applied Science in Microcomputer Business Applications is designed to provide the skills needed for those students who are interested in becoming part of the support system in almost any office configuration in a wide variety of business areas. Coursework will provide a variety of microcomputer application skills and general business knowledge. The General Education courses provide a well-rounded background that includes writing, reading, communication, mathematics, natural science, social sciences, and humanities and fine arts. Courses in the program prepare for the Core and Expert examinations for certification as a Microsoft Office Specialist (MOS).

	Opportunities		BPC110	Computer Usage and
Administrative support positions currently account			Applications	
for over 17 percent of all jobs in Arizona. Job		BPC111AA	Computer Keyboarding I 1	
prospects are brightest for those with the best techni-		+BPC111AB	Computer Keyboarding II 1	
		ticular, expertise in a variety of soft-	BPC121AB	MS-DOS Operating System 1
	ware packages.	1	+COM259	Communication in Business
	DD00D444 N0		CDCOOF	and Professions
	PROGRAM NO	earn a grade of "C" or better for all	GBS205	Legal, Ethical, and Regulatory Issues in Business
		d within the program.	MGT229	Management and Leadership I 3
	-	1 0	MKT271	Principles of Marketing 3
		rse has prerequisites and/or corequi-	141111271	Timespes of Marketing
	sites.		GENERAL ED	JCATION: 25 CREDITS
	Overall program	m minimum G.P.A. 2.00.		
			CORE:	15 CREDITS
	REQUIRED CO		First-Year Con	
	ACC111 +ACC115	Accounting Principles I	+ENG101	
	+ACC115	Computerized Accounting	+ENG102	First-Year Composition (3) OR
	DDC106AII	(Quicken or Quickbooks)	+ENG107	First-Year Composition for ESL (3)AND
		Microsoft Outlook: Level II 0.5	+ENG108	First-Year Composition
		Excel: Level I	+LIVG100	for ESL (3)
		Excel: Level II	Oral Commu	* *
		Database Management:	COM100	Introduction to Human
		Microsoft Access – Level I 1		Communication (3) OR
	+BPC117BM	Database Management:	+COM230	Small Group
		Microsoft Access – Level II 1		Communication (3) 3
		PowerPoint Level I 1	Critical Readi	ng
	BPC121AE	Windows Operating System:	+CRE101	Critical and Evaluative
		Level I		Reading I (3) OR
	+BPC135DK	Word Processing Software:	Equivalent as i	ndicated by assessment
	DDC005DV	Word	Mathematics	
	+BPC233DK	Advanced Word Processing Software: Word	Any approved	general education course in the
	CIS105	Survey of Computer	Mathematics a	
	CISTOS	Information Systems		ndicated by assessment OR
	CIS133AA	The Internet/World Wide Web:		mpletion of a higher-level
	010100111	Level I	mathematics c	ourse
	+CIS133BA	The Internet/World Wide Web:		
		Level II	DISTRIBUTIO	
	+CIS233AA	Web Design and Publishing I 1	Humanities a	
	+CIS233BA	Web Design and Publishing II 1	Any approved	general education course in the
	GBS151	Introduction to Business 3		d Fine Arts area
	OAS108	Business English3		havioral Sciences
	RESTRICTED E	ELECTIVES: 10 CREDITS	ECN111	Macroeconomic
		select ten (10) credits from the following	ECN1440	Principles (3) OR
		ltation with a program advisor:	ECN112	Microeconomic Principles (3)3
	ART100	Introduction to Computer	Natural Scien	
		Graphic Art	Any approved	general education course in the
	BPC101AA	Introduction to	Natural Science	es area
		Microcomputers I: IBM1	Conord Educa	tion Dequirements are listed as as as
	+BPC101BA	Introduction to	139-141.	tion Requirements are listed on pages
		Microcomputers II: IBM1	100 141.	

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Computer Database Administration and Development

Microsoft Database Administration

Certificate of Completion: CCL 5179

16 Credits

Program Contact: Patricia Baker (480) 732-7392 patricia.baker@cgcmail.maricopa.edu

Program Description

Chandler-Gilbert Community College prepares students for Microsoft industry-recognized certifications. The Microsoft Technology curriculum is taught by Microsoft Certified Professionals.

The Certificate of Completion in Microsoft Database Administration provides training to work in the field of Microsoft database administration. Courses in the program also prepare students for the Microsoft Certified Database Administrator (MCDBA) certification exams, which are industry-recognized certifications. The MCDBA credential is the premier certification for professionals who design, implement, and administer Microsoft SQL Server databases.

Job Opportunities

By earning the MCDBA credential, students demonstrate they have the skills necessary to be successful in this field. The demand for skilled MCDBAs is expected to increase significantly. According to a report appearing in the September, 2001, issue of National Industry-Occupation Employment, projected employment for MCDBAs is expected to increase 77% by 2008, making this the fastest growing segment in the Microsoft technical industry.

PROGRAM NOTES:

Students are strongly encouraged to work closely with an academic advisor to assure proper course selection and discuss minimum program GPA requirements.

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

Overall program minimum G.P.A. = 2.50.

+ indicates course has prerequisites and/or corequisites.

PROGRAM PREREQUISITES: 13 CREDITS

In lieu of the courses listed below, students with experience in the information technology field may meet these program prerequisite requirements with the permission of the instructor.

CIS105	Survey of Computer
	Information Systems
+CIS159	Visual Basic Programming I 3
+CIS190	Introduction to Local
	Area Networks (3) OR
MST140	Microsoft Networking
	Essentials (3)
+MST170	Visual Basic Desktop
	Application Development 4

REQUIRED COURSES: 16 CREDITS

+MST150	Microsoft Windows
	Professional
+MST152	Microsoft Windows Server 4
+MST155	Implementing Windows
	Network Infrastructure (3) OR
+MST172	Microsoft Visual Basic
	Distributed Applications (3) 3
+MST244	Microsoft SQL Server
	Administration
+MST254	Microsoft SQL Server Design
	and Implementation

Microsoft Database Administration

Associate in Applied Science: AAS 3179

64 Credits

Program Contact: Patricia Baker (480) 732-7392 patricia.baker@cgcmail.maricopa.edu

Program Description

Chandler-Gilbert Community College prepares students for Microsoft industry-recognized certifications. The Microsoft Technology curriculum is taught by Microsoft Certified Professionals.

The Associate in Applied Science in Microsoft Database Administration provides training to work in the field of Microsoft database administration. Courses in the program also prepare students for the Microsoft Certified Database Administrator (MCDBA) certification exams, which are industry-recognized certifications. The General Education courses provide a well-rounded background that

includes writing, reading, communication, mathematics, natural science, social sciences, and humanities and fine arts. The MCDBA credential is the premier certification for professionals who design, implement, and administer Microsoft SQL Server databases.

Job Opportunities

By earning the MCDBA credential, students demonstrate they have the skills necessary to be successful in this field. The demand for skilled MCDBAs is expected to increase significantly. According to a report appearing in the September, 2001, issue of National Industry-Occupation Employment, projected employment for MCDBAs is expected to increase 77% by 2008, making this the fastest growing segment in the Microsoft technical industry.

PROGRAM NOTES:

Students are strongly encouraged to work closely with an academic advisor to assure proper course selection and discuss minimum program GPA requirements.

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

Overall program minimum G.P.A. = 2.50.

+ indicates course has prerequisites and/or corequisites.

PROGRAM PREREQUISITES: 8-9 CREDITS

Completion of the courses listed in the Program Prerequisites area is dependent upon a student's prior experience in the information technology field and/or the courses selected for completion in the Restricted Electives area:

- 1. Students with previous experience in the information technology field may meet the CIS105 course requirement with the permission of the instructor.
- Students electing to complete CIS235 and/or MST174 in the Restricted Electives area may need to complete one or more of the four Internet courses listed below or meet the course requirement(s) with the permission of the instructor.

CIS105	Survey of Computer
	Information Systems
CIS133AA	The Internet/World Wide Web:
	Level I (1) AND
+CIS133BA	The Internet/World Wide Web:
	Level II (1) OR
CIS133DA	The Internet/Word Wide
	Web (3)
+CIS233DA	Web Design and Publishing 3
	0

REQUIRED COURSES:

25 CREDITS

Students without background or experience in the information technology field may need to complete prerequisite courses for Required Courses. These prerequisites are listed in the Restricted Electives area. Students may need to complete CIS190 or MST140 before enrolling in MST150. Students electing to complete MST172 may need to complete CIS159 and MST170.

	nplete CIS159 and MST170.	
CIS102	Interpersonal and Customer	
	Service Skills for IT	
	Professionals	
+CIS119DO	Introduction to Oracle:	
	SQL and PL/SQL3	
CIS126DA	UNIX Operating System 3	
+CIS164AG	Oracle: Data Modeling and	
	Relational Database	
	Design (2) OR	
+MST146	Data Modeling and Relational	
	Database Design (2)2	
+MST150	Microsoft Windows	
	Professional	
+MST152	Microsoft Windows Server 4	
+MST155	Implementing Windows	
	Network Infrastructure (3) OR	
+MST172	Microsoft Visual Basic	
	Distributed Applications (3) 3	
+MST244	Microsoft SQL Server	
	Administration	
+MST254	Microsoft SQL Server Design	
	and Implementation3	
	-	

RESTRICTED ELECTIVES

12-15 CREDITS

Students without background or experience in the information technology field may need to complete prerequisite courses for Required Courses. These prerequisites are listed in the Restricted Electives area. Students may need to complete CIS190 or MST140 before enrolling in MST150. Students electing to complete MST172 may need to complete CIS159 and MST170.

Additionally, students electing to complete CIS235 and/or MST174 in the Restricted Electives area may need to complete one or more of the four Internet courses listed in the Program Prerequisites area or meet the course requirement(s) with the permission of the instructor.

Students must select courses in the Restricted Electives area to satisfy the AAS requirement of 64 credits. +CIS119DP Oracle: Database

	Administration
+CIS150	Programming Fundamentals3
+CIS159	Visual Basic Programming I 3
+CIS163AA	Java Programming: Level I 3
+CIS164AB	Oracle: PL/SQL
	Programming

+CIS190	Introduction to Local	Oral Communication
MST140	Area Networks (3) OR Microsoft Networking	Any approved general education course in the Oral Communication area
WIST 140	Essentials (3)	
+CIS235	e-Commerce	Critical Reading +CRE101 Critical and Evaluative
Students may s	elect no more than four (4) credits	Reading OR
combined from	CIS290AA-AC and CIS296WA-	Equivalent as indicated by assessment
WD courses.		Mathematics
+CIS290AA-	Computer Information Systems	
+CIS290AC	Internship (Any module)	+MAT120 Intermediate Algebra (5) OR +MAT121 Intermediate Algebra (4) OR
~~~~	(1-3) OR	+MAT121 Intermediate Algebra (4) OR +MAT122 Intermediate Algebra (3) OR
+CIS296WA	Cooperative Education	Equivalent as indicated by assessment OR
+CIS296WD	(Any module) (1-4)	Satisfactory completion of a higher level
GBS151	Introduction to Business 3	mathematics course
+MST155	Implementing Windows	
+MST172	Network Infrastructure (3) OR Microsoft Visual Basic	DISTRIBUTION 9-10 CREDITS
+1/131112	Distributed Applications (3) 3	Humanities and Fine Arts
+MST170	Visual Basic Desktop	Any approved general education course in the
11101110	Application Development 4	Humanities and Fine Arts area
+MST174	Microsoft Visual InterDev 3	Social and Behavioral Sciences
MST298AA	- Special Projects	Any approved general education course in the
MST298AC	(Åny module)	Social and Behavioral Sciences area
		Natural Sciences
GENERAL ED	UCATION: 24-27 CREDITS	Any approved general education course in the
		Natural Sciences area
CORE:	15-17 CREDITS	
First-Year Composition		General Education Requirements are listed on pages
+ENG101	First-Year Composition (3) AND	139-141.
+ENG102	First-Year Composition (3) OR	
+ENG107	First-Year Composition	
.ENC100	for ESL (3) AND	
+ENG108	First-Year Composition	
	for ESL (3)6	

# **Computer Hardware Maintenance**

# Computer Hardware and Desktop Support

Certificate of Completion: CCL 5026

16-20 Credits

Program Contact:

Linda Watson (480) 732-7191 linda.watson@cgcmail.maricopa.edu

### **Program Description**

The Certificate of Completion in Computer Hardware and Desktop Support is designed to provide training to work in an entry-level computer maintenance and help-desk position. Students will be provided the opportunity to apply technical concepts, fundamentals, and interpersonal skills in a help-desk environment through an internship.

### Job Description

Computer hardware and help-desk professionals can work in several different scenarios. They may build computers, analyze and troubleshoot hardware problems, repair and refurbish computers, install and configure software, train end-users on application usage, and assist end-users with computer hardware and software problems. In addition to being technically competent, it is important to have strong interpersonal skills.

### **Opportunities**

Career opportunities include help desk technician, computer repair technician, manufacturing, and sales. The salary range is \$20,000 to \$37,000 depending on experience and position. This area is expected to grow by 46% by the year 2005 as more computer equipment is used.

#### **PROGRAM NOTES:**

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

### REQUIRED COURSES: 16-20 CREDITS

BPC110	Computer Usage and	
	Applications (3) OR	
CIS105	Survey of Computer	
	Information Systems (3)	3

BPC121AB/	MS-DOS
CIS121AB	Operating System
+BPC170	Computer Maintenance I:
	A+ Prep
+BPC171	Recycling Used Computer
	Technology1
+BPC270	Microcomputer
	Maintenance II
CIS102	Interpersonal and Customer
	Service Skills for IT
	Professionals
+CIS190	Introduction to
	Local Area Networks (3) OR
CNT140	Cisco Networking
	Fundamentals (4) OR
MST140	Microsoft Networking
	Essentials (3)
+CIS290AA-	Computer Information Systems
+CIS290AC	Internship (Any Module) (1-3) OR
+CIS296WA-	Cooperative Education
+CIS296WD	(Any Module) (1-4)1-4

# **Computer Networking**

### **Networking Administration: Cisco**

Certificate of Completion: CCL 5969

13 Credits

Program Contact: Linda Watson (480) 732-7191 linda.watson@cgcmail.maricopa.edu

### Program Description

Chandler-Gilbert Community College, a Cisco Systems recognized Regional or Local Academy, prepares students for industry-recognized certification. The curriculum is taught by Cisco Systems Certified Professionals. The Certificate of Completion in Networking Administration: Cisco provides training for a position working with Cisco Systems networking and Internet hardware. Knowledge and skills are developed to install, configure, maintain, and troubleshoot Cisco routers and components, advanced routing protocols, Local Area Networks (LANs), and Wide Area Networks (WANs). Courses in the program also prepare students for the Cisco Certified Networking Associate examination.

### Job Description

A Cisco Certified Networking Associate will be required to perform various tasks such as designing,

installing, maintaining and troubleshooting Cisco routers and components, Local Area Networks (LANs), and Wide Area Networks (WANs).

### **Opportunities**

Cisco Systems is the world's largest manufacturer of networking and Internet hardware and has seen tremendous growth of market share. The employment opportunities for trained Networking Associates are outstanding.

#### PROGRAM NOTES:

Students must earn a grade of "C" or better in all courses in the Required Area.

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

REQUIRED C	OURSES:	13 CREDITS
CNT140	Cisco Networking	
	Fundamentals	
+CNT150	Cisco Networking	Router
	Technologies	
+CNT160	Cisco Advanced Ro	
	Switching	U
+CNT170	Cisco Project Based	d Learning 3



### Networking Technology: Cisco

Certificate of Completion: CCL 5967

20 Credits

Program Contact: Linda Watson (480) 732-7191 linda.watson@cgcmail.maricopa.edu

### **Program Description**

Chandler-Gilbert Community College, a Cisco Systems recognized Regional or Local Academy, prepares students for industry-recognized certification. The curriculum is taught by Cisco Systems Certified Professionals. The Certificate of Completion in Networking Technology: Cisco provides training for a supervisory position working with Cisco Systems networking and Internet hardware. Knowledge and skills are developed to install, configure, maintain, and troubleshoot Cisco routers and components, advanced routing protocols, Local Area Networks (LANs), and Wide Area Networks (WANs); use the MS-DOS operating systems; troubleshoot problems with various common hardware and software configurations; and perform administrative tasks in a network. Courses in the program also prepare students for the Cisco Certified Networking Associate examination.

### Job Description

A Networking Technology Associate will be required to perform various tasks such as designing, installing, maintaining and troubleshooting Cisco routers and components, Local Area Networks (LANs), and Wide Area Networks (WANs). Additional skills that are necessary include using the MS-DOS operating systems, troubleshooting problems with various common hardware and software configurations, and performing administrative tasks in a network.

### **Opportunities**

Cisco Systems is the world's largest manufacturer of networking and Internet hardware and has seen tremendous growth of market share. The employment opportunities for trained Networking Technology Associates are outstanding.

#### **PROGRAM NOTES:**

Students must earn a grade of "C" or better in all courses in the Required Area.

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

REQUIRED CO	URSES: 20 CREDITS
BPC121AB	MS-DOS Operating System 1
+BPC170	Computer Maintenance I:
	A+ Prep
CIS126DA	UNIX Operating System (3) OR
CIS126AA	UNIX Operating System
	Level: I (1) AND
+CIS126BA	UNIX Operating System
	Level: II (1) AND
+CIS126CA	UNIX Operating System
	Level: III (1) OR
+CIS191	Novell NetWare System
	Administration (3) OR
+MST150	Microsoft Windows
	Professional (3)
CNT140	Cisco Networking
	Fundamentals4
+CNT150	Cisco Networking Router
	Technologies
+CNT160	Cisco Advanced Routing
	and Switching3
+CNT170	Cisco Project Based Learning 3

### Networking Technology: Cisco

Associate in Applied Science: AAS 3816 64 Credits

Program Contact: Linda Watson (480) 732-7191 linda.watson@cgcmail.maricopa.edu

### **Program Description**

Chandler-Gilbert Community College, a Cisco Systems recognized Regional or Local Academy, prepares students for industry-recognized certification. The curriculum is taught by Cisco Systems Certified Professionals. The Associate in Applied Science in Networking Technology: Cisco provides training for a supervisory position working with Cisco Systems networking and Internet hardware. Knowledge and skills are developed to install, configure, maintain, and troubleshoot Cisco routers and components, advanced routing protocols, Local Area Networks (LANs), and Wide Area Networks (WANs); use the MS-DOS operating systems; troubleshoot problems with various common hardware and software configurations; perform administrative tasks in a network; develop methods for customer service; and describe the basic components of electronic systems. Courses in the program also prepare students for the Cisco Certified Networking Associate examination.

### **Job Description**

A Cisco Networking Administrator will be required to perform various tasks such as designing, installing, maintaining and troubleshooting Cisco routers and components, Local Area Networks (LANs), and Wide Area Networks (WANs). Additional skills that are necessary include using the MS-DOS operating systems, troubleshooting problems with various common hardware and software configurations, performing administrative tasks in a network, developing methods for customer service, and utilizing electronic systems.

### **Opportunities**

Cisco Systems is the world's largest manufacturer of networking and Internet hardware and has seen tremendous growth of market share. The employment opportunities for trained Networking Administrators are outstanding.

#### PROGRAM NOTES:

Students must earn a grade of "C" or better in all courses in the Required Area.

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

### REQUIRED COURSES: 24 CRED

Note: A course cannot be used to satisfy both Required Courses and Restricted Electives area.

Courses and Re	stricted Electives area.	
BPC121AB	MS-DOS Operating System 1	
+BPC170	Computer Maintenance I:	
	A+ Prep	
CIS102	Interpersonal and Customer	
	Service Skills for IT	
	Professionals1	
+CIS126DA	UNIX Operating System (3) OR	
CIS126AA	UNIX Operating System:	
	Level I (1) AND	
+CIS126BA	UNIX Operating System:	
	Level II (1) AND	
+CIS126CA	UNIX Operating System:	
	Level III (1) OR	
+CIS191	Novell NetWare System	
	Administration (3) OR	
+MST150	Microsoft Windows	
	Professional (3)	
CNT140	Cisco Networking	
	Fundamentals	
+CNT150	Cisco Networking Router	
	Technologies	
+CNT160	Cisco Advanced Routing	
	and Switching	
+CNT170	Cisco Project Based Learning 3	
ELT100	Survey of Electronics	

RESTRICTED		
Note: A course cannot be used to satisfy both Required		
	stricted Electives area.	
BPC110	Computer Usage and	
DI C110		
OTO405	Application (3) OR	
CIS105	Survey of Computer	
	Information Systems (3) 3	
CIS126DA	UNIX Operating System (3) OR	
CIS126AA	UNIX Operating System:	
CIDILOIDI	Level I (1) AND	
CICLOODA		
+CIS126BA	UNIX Operating System:	
	Level II (1) AND	
+CIS126CA	UNIX Operating System:	
	Level III (1) OR	
+CIS191	Novell NetWare System	
(CISTOT		
) (CITI 1 7 O	Administration (3) OR	
+MST150	Microsoft Windows	
	Professional (3)	
+CIS270	Essentials of Network and	
	Information Security3	
+CIS296WA-	Cooperative Education	
+CIS296WD	(Assay Mardadas)	
	(Any Modules) 1-4	
CIS298AA-	Special Projects	
CIS298AC	(Âny Modules)	
+MST145	Microsoft Client System	
	Administration	
+MST240	Microsoft Transmission Control	
111101210	Protocol/Internet	
	Protocol (TCP/IP)	
GENERAL EDUCATION: 25 CREDITS		
CORE:	15 CREDITS	
First-Year Co	mnosition	
+ENG101	First-Year Composition (3) AND	
+ENG102	First-Year Composition (3) 6	
Oral Commu	nication	
COM100	Introduction to Human	
COMITO		
0014440	Communication (3) OR	
COM110	Interpersonal	
	Communication (3) OR	
+COM230	Small Group	
	Communication (3)	
Critical Readi	na	
CDE101	Critical and Evaluative	
+CRE101		
	Reading I (3) OR	
Equivalent as i	ndicated by assessment	
Mathematics		

Mathematical Concepts/

+MAT102



DISTRIBUTION:	10 CREDITS
<b>Humanities and Fine Arts</b>	
Any approved general education cours	
Humanities and Fine Arts area	3
Social and Behavioral Sciences	
Any approved general education cours Social and Behavioral Sciences area	
Natural Sciences	
Any approved general education cours	
Natural Sciences area	4
General Education Requirements are l	listed on pages
139-141.	1 0
N/!	! _ L

### Microsoft Product Specialist

Certificate of Completion: CCL 5841

13-15 Credits

Program Contact: Deidre Grafel (480) 857-5207 deidre.grafel@cgcmail.maricopa.edu

### **Program Description**

The Certificate of Completion in Microsoft Product Specialist provides training for an entry-level position working with Windows networks. Knowledge and skills are developed to install, configure, customize, optimize, and troubleshoot Windows servers and Windows client workstations. Courses in the program also help to prepare for Microsoft Certified Product Specialist (MCP), Microsoft Certified Systems Administrator (MCSA), and Microsoft Certified Systems Engineer (MCSE) examinations. The curriculum is taught by Microsoft Certified Professionals.

### **Job Description**

A Microsoft Product Specialist will be required to perform various tasks such as installing and configuring software, creating and managing user and group accounts, analyzing and optimizing system performance, troubleshooting system and printing problems, and working with system administrators and end users.

#### PROGRAM NOTES:

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

Overall program minimum G.P.A. = 2.00.

- + indicates course has prerequisites and/or corequisites.
- ++ indicates any module

EREQUISITES: Survey of Computer Information Systems (	3 CREDITS
Department or Ďivisior	1
URSES: 1	3-15 CREDITS
MS-DOS	
Operating System	1
Computer Maintenan	
A+ Prep	3
Introduction to	
Local Area Networks	(3) OR
Cisco Networking	
Fundamentals (4) OR	,
Microsoft Networking	5
Essentials (3)	
Any MST150 course	3
Any MST152 course	
	Survey of Computer Information Systems (Department or Division URSES: 1 MS-DOS Operating System Computer Maintenan A+ Prep Introduction to Local Area Networks (Cisco Networking Fundamentals (4) OR Microsoft Networking

### Microsoft Systems Administration

Certificate of Completion: CCL 5852

22-24 Credits

Program Contact: Deidre Grafel (480) 857-5207 deidre.grafel@cgcmail.maricopa.edu

### **Program Description**

The Certificate of Completion in the Microsoft Systems Administration provides training for professionals who implement, manage, and troubleshoot existing network and system environments based on current Microsoft Server operating systems. Courses in the program also prepare for Microsoft Certified Product Specialist (MCP), Microsoft Certified Systems Administrator (MCSA), and Microsoft Certified Systems Engineer (MCSE) examinations.

### Job Description

The Microsoft Certified Systems Administrator (MCSA) will be required to implement, to manage, and to troubleshoot networks containing messaging services, file and print servers, and firewalls in addition to configuring Internet access, to enabling remote access for users, and to managing client computers.

#### **PROGRAM NOTES:**

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

Overall program minimum G.P.A. = 2.00.

- + indicates course has prerequisites and/or corequisites.
- ++ indicates any module.

83	
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DDOGDAM DE	REREQUISITES: 3 CREDITS	PROGRAM NO	TES.
CIS105	Survey of Computer		earn a grade of "C" or better for all
CIDIOO	Information Systems OR		ed within the program.
Permission of	Department or Division	_	
REQUIRED CO		Overall progra	m minimum G.P.A. = $2.00$ .
BPC121AB/	MS-DOS	+ indicates cou	ırse has prerequisites and/or corequi-
CIS121AB	Operating System1	sites.	and this prerequisites untarest correqui
+BPC170	Computer Maintenance I:		
	A+ Prep	++ indicates ar	ny module.
+CIS190	Introduction to Local	DDOCDAM DE	REREQUISITES: 3 CREDITS
	Area Networks (3) OR	CIS105	Survey of Computer 3 CREDITS
CNT140	Cisco Networking	CISTOS	Information Systems OR
	Fundamentals (4) OR	Permission of	Department or Division
MST140	Microsoft Networking	1 CITIIISSIOTI OF	Department of Division
	Essentials (3)	REQUIRED CO	OURSES: 34-36 CREDITS
MST150++	J	BPC121AB/	
	Any MST152 course3-4	CIS121AB	
+MST153WC	C Windows 2003 Server	+BPC170	Computer Maintenance I:
	Administration: Level II 3	IDI CITO	A+ Prep
+MST155	Implementing Windows	+CIS190	Introduction to Local
	Network Infrastructure3	CISTOO	Area Networks (3) OR
+MST232	Managing a Windows	CNT140	Cisco Networking
	Network Environment	CIVIIIO	Fundamentals (4) OR
		MST140	Microsoft Networking
Microsoft	Systems Engineer	14151110	Essentials (3)
	•	MST150++	
Certificate of	f Completion: CCL 5843	+MST152++	J
34-36 Credits	•		C Windows 2003 Server
		111011011	Administration: Level II 3
Program Cont		+MST155	Implementing Windows
	(480) 857-5207		Network Infrastructure3
deidre.graiei@	cgcmail.maricopa.edu	+MST157	Implementing Windows
Program Des	scription		Directory Services
	e of Completion in Microsoft Systems	+MST232	Managing a Windows
	ides training for an intermediate- to		Network Environment 3
	vel position working with Windows	+MST244	Microsoft SQL Server
	e program develops skills to install, con-		Administration
	ize, optimize, and troubleshoot	+MST253	Designing a Microsoft Windows
	ers, Windows client workstations,		2000 Directory Services
	koffice products. Courses in the pro-		Infrastructure (3) OR
	to prepare for Microsoft Certified	+MST259	Designing Windows
	alist (MCP), Microsoft Certified		Network Security (3) 3
	nistrator (MCSA), and Microsoft	+MST255	Designing Windows Network
Certified Syste	ems Engineer (MCSE) examinations.		Infrastructure
	m is taught by Microsoft Certified		
Duafassianala			

### **Job Description**

Professionals.

A Microsoft Systems Engineer will be required to perform various tasks such as developing a local area network, installing and configuring software, creating and managing user and group accounts, analyzing and optimizing system performance, troubleshooting system and printing problems, training end users, and working as a system administrator.



### Microsoft Networking Technology

Associate in Applied Science: AAS 3778 64 Credits

Program Contact: Deidre Grafel (480) 857-5207 deidre.grafel@cgcmail.maricopa.edu

### **Program Description**

The Associate in Applied Science in Microsoft Networking Technology provides training for a supervisory-level position working with Windows networks. The program develops skills to implement a network infrastructure and install, configure, monitor, optimize, and troubleshoot Windows server and Windows client workstations. Courses in the program also help to prepare for Microsoft Certified Product Specialist (MCP), Microsoft Certified Systems Administrator (MCSA), and Microsoft Certified Systems Engineer (MCSE) examinations. The curriculum is taught by Microsoft Certified Professionals.

### **Job Description**

A Microsoft Networking administrator will be required to perform various tasks such as developing a local area network, installing and configuring software, creating and managing user and group accounts, analyzing and optimizing system performance, troubleshooting system and printing problems, interoperating with various operating systems, working with local area networks as well as metropolitan area networks and wide area networks, training end users, and working as a system administrator.

#### **PROGRAM NOTES:**

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

Overall program minimum G.P.A. = 2.00.

- + indicates course has prerequisites and/or corequisites.
- ++ indicates any module.

PROGRAM	PREREQUISITES:	3 CREDITS
CIS105	Survey of Computer	
	Information Systems (3)	OR
Permission of	of Department or Division .	3

	s will not apply in both required courses
and restricted e BPC121AB/	
CIS121AB	Operating System
+BPC170	Computer Maintenance I:
CIS102	A+ Prep
CIS126DA	Professionals
CIS126AA	UNIX Operating System: Level I (1) AND
+CIS126BA	UNIX Operating System: Level II (1) AND
+CIS126CA	UNIX Operating System: Level III (1)
+CIS190	Introduction to Local Area Networks (3) OR
CNT140	Cisco Networking Fundamentals (4) OR
MST140	Microsoft Networking
141011110	Essentials (3)3-4
MST150++	
	will not apply in both require
	tricted electives area.
	Any MST152 course
Selected course and restricted e	will not apply in both require courses
+MST153WC	C Windows 2003 Server
+MST155	Administration: Level II 3 Implementing Windows Network
	Infrastructure
+MST232	Managing a Windows Network Environment
RESTRICTED	ELECTIVES: 13 CREDITS
Selected courses and restricted e	s will not apply in both required courses electives area.
	d select thirteen (13) credits from the fol-
BPC110	in consultation with a program advisor:
BPC110	Computer Usage and Applications (3) OR
CIS105	Survey of Computer
	Information Systems (3)3
+BPC171	Recycling Used
+BPC270	Computer Technology 1-3 Microcomputer
.CIC1EO	Maintenance II
+CIS150 +CIS159	Programming Fundamentals 3
+CIS159 +CIS162AB	Visual Basic Programming I 3 C++: Level I (3) OR
+CIS162AB +CIS162AC	Visual C++: Level I (3)
+CIS102AC +CIS191	Novell NetWare System
LC10191	Administration

bined from CI	S290AA-AC and CIS296WA-WD	CORE:
courses.		First-Ye
		+ENG10
+CIS290A+	Computer Information Systems	+ENG10
	Internship (Any module) (1-3) OR	+ENG1
+CIS296W+	Cooperative Education	
	(Any module) (1-4)1-4	+ENG10
+CNT150	Cisco Networking Router	
	Technologies	Oral Co
MST150++	Any MST150 course 3	Any app
Selected course	will not apply in both required	Oral Co
	tricted electives area.	
+MST152++	Any MST152 course3-4	Critical
Selected course	will not apply in both required courses	+CRE10
and restricted e	lectives area.	E
+MST157	Implementing Windows	Equivale
	Directory Services	Mathem
+MST242	Microsoft Exchange Server 4	Any app
+MST244	Microsoft SQL Server	Mathem
	Administration	
+MST252	Microsoft Windows Network	DISTRIB
	Upgrade	Humani
+MST253	Designing a Microsoft Windows	Any app
	2000 Directory Services	Humani
	Infrastructure	Social a
+MST254	Microsoft SQL Server Design	Any app
	and Implementation	Social an
+MST255	Designing Windows Network	
	Infrastructure3	Natural
+MST259	Designing Windows Network	Any app
	Security	Natural:
MST298A+	Special Projects (Any module)1-3	

Students may select no more than four (4) credits com-

GENERAL ED	DUCATION:	25 CREDITS
CORE:		15 CREDITS
First-Year Co	omposition	
+ENG101	First-Year Compositio	n (3) AND
+ENG102	First-Year Compositio	n (3) OR
+ENG107	First-Year Compositio	n
	for ESL (3) AND	
+ENG108	First-Year Compositio	
	for ESL (3)	6
Oral Comm	unication	
Any approved	d general education cours	se in the
Oral Commu	inication Area	3
<b>Critical Read</b>	ling	
+CRE101	O	e
	Reading I (3) OR	
Equivalent as	indicated by assessment	3
Mathematics	5	
		_
Any approved	d general education cours	se in the
	d general education cours	
	d general education cours area	
	area	
Mathematics  DISTRIBUTION	area	
Mathematics DISTRIBUTION Humanities	area  DN:  and Fine Arts	
Mathematics  DISTRIBUTIO  Humanities  Any approved	area  DN:  and Fine Arts  I general education cours	10 CREDITS
Mathematics  DISTRIBUTION  Humanities  Any approved  Humanities a	area  DN:  and Fine Arts	10 CREDITS
Mathematics  DISTRIBUTION  Humanities  Any approved  Humanities a  Social and B	area  DN:  and Fine Arts  I general education cours  and Fine Arts area  ehavioral Sciences	
Mathematics  DISTRIBUTION  Humanities  Any approved  Humanities a  Social and B  Any approved	area  DN:  and Fine Arts  I general education cours  and Fine Arts area  ehavioral Sciences  I general education cours	10 CREDITS See in the
Mathematics  DISTRIBUTION  Humanities  Any approved  Humanities a  Social and B  Any approved  Social and Be	area	10 CREDITS See in the
Mathematics  DISTRIBUTION  Humanities  Any approved  Humanities a  Social and B  Any approved  Social and Be  Natural Scientics	area	10 CREDITS See in the
Mathematics  DISTRIBUTION  Humanities  Any approved  Humanities a  Social and B  Any approved  Social and Be  Natural Scient  Any approved	area	10 CREDITS See in the
Mathematics  DISTRIBUTION  Humanities  Any approved  Humanities a  Social and B  Any approved  Social and Be  Natural Scient  Any approved	area	10 CREDITS See in the
Mathematics  Humanities Any approved Humanities a  Social and B  Any approved Social and Be  Natural Scient Natural Scient	area	10 CREDITS  Se in the
Mathematics  Humanities Any approved Humanities a  Social and B  Any approved Social and Be  Natural Scient Natural Scient	area	10 CREDITS  Se in the

# **Computer Programming**

### Microsoft Solutions Development

Certificate of Completion: CCL 5838 24 Credits

Program Contact: DJ Christian (480) 732-7394 dj.christian@cgcmail.maricopa.edu

### **Program Description**

The Certificate of Completion in Microsoft Solutions Development is designed to provide training in preparation for the Microsoft Certified Solutions Developer (MCSD) certification examinations. The MCSD credential is the premium certification for professionals who design and develop custom business solutions with Microsoft development tools, technologies, and platforms. Focus is on application development for desktop, distributed, and Internet/intranet environments.

### Job Description

Microsoft solutions developers design and develop custom solutions to build Web-based, distributed, and commerce applications by using Microsoft's products, such as Microsoft SQLTM Server, Microsoft Visual Studio, and Microsoft Component Services. Job tasks include analyzing business requirements, defining the technical architecture, designing a solution, coding and implementing a solution, testing the solution, deploying the solution, and maintaining the solution.

### **Opportunities**

Career opportunities include systems architect, systems analyst, programmer, e-commerce administrator, data base administrator, trainer, and contractor. There is a critical shortage of Microsoft developers as there are approximately 22,000 MCSDs worldwide. The growth of e-commerce and use of Microsoft products will increase the demand for qualified solutions developers. Average salary in the southwest region is \$78,500.

#### **PROGRAM NOTES:**

Students entering the Microsoft Solutions
Development program often come with background
or experience in the computer programming area.
Students must consult with a program advisor as the
program prerequisites may not be necessary and may
be waived as requirements to the program. Students

without background or experience in the computer programming area may need to take additional program prerequisites.

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

#### PROGRAM PREREQUISITES: 4-6 CREDITS

+CIS233BA	Web Design and
	Publishing II (1) OR
+CIS233DA	The Internet Web
	Publishing (3) OR
+MST244	Microsoft SQL Server
	Administration (3) AND
CIS105	Survey of Computer
	Information Systems (3)4-6

OR

+MST254

Permission of Department or Division.

#### **REQUIRED COURSES:** 24 CREDITS +ACC230 **Uses of Accounting** Information I (3) OR **GBS151** Introduction to Business (3) . . . . . 3 Programming Fundamentals . . . . 3 +CIS150 +CIS159 Visual Basic Programming I . . . . . 3 +CIS164AG Oracle: Data Modeling and Relational Database Design (2) OR +MST146 **Data Modeling and Relational** Database Design (2) ..........2 +MST170 Visual Basic Desktop Application Development . . . . . 4 +MST172 Microsoft Visual Basic Distributed Applications . . . . . . . 3 +MST270 Microsoft Solutions Students should select (3) credits from the following courses in consultation with a program advisor. +MST171 Microsoft FrontPage (3) OR +MST174 Microsoft Visual

InterDev (3) OR

Microsoft SQL Server Design

and Implementation (3) . . . . . . . . 3

### Microsoft Solutions Development

Associate in Applied Science: AAS 3838 64 Credits

Program Contact: DJ Christian (480) 732-7394 dj.christian@cgcmail.maricopa.edu

### **Program Description**

The Association in Applied Science in Microsoft Solutions Development is designed to provide training in preparation for the Microsoft Certified Solutions Developer (MCSD) certification examinations. The MCSD credential is the premium certification for professionals who design and develop custom business solutions with Microsoft development tools, technologies, and platforms. Focus is on application development for desktop, distributed, and Internet/intranet environments.

### Job Description

Microsoft solutions developers design and develop custom solutions to build Web-based, distributed, and commerce applications by using Microsoft's products, such as Microsoft SQLTM Server, Microsoft Visual Studio, and Microsoft Component Services. Job tasks include analyzing business requirements, defining the technical architecture, designing a solution, coding and implementing a solution, testing the solution, deploying the solution, and maintaining the solution.

### **Opportunities**

Career opportunities include systems architect, systems analyst, programmer, e-commerce administrator, database administrator, trainer, LAN administrator, network engineer, information systems manager, and contractor. There is a critical shortage of Microsoft developers as there are approximately 22,000 MCSDs worldwide. The growth of e-commerce and use of Microsoft products will increase the demand for qualified solutions developers. Average salary in the southwest region is \$78,500.

#### PROGRAM NOTES:

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

REQUIRED CO	URSES: 25 CREDITS
+ACC230	Uses of Accounting
	Information I (3) OR
GBS151	Introduction to Business (3) 3
CIS102	Interpersonal and Customer
	Service Skills for IT
	Professionals
+CIS150	Programming Fundamentals 3
+CIS159	Visual Basic Programming I 3
+CIS164AG	Oracle: Data Modeling and
10101111	Relational Database
	Design (2) OR
+MST146	Data Modeling and Relational
11101110	Database Design (2) 2
+MST170	Visual Basic Desktop
1111111111	Application Development4
+MST172	Microsoft Visual Basic
11101112	Distributed Applications 3
+MST270	Microsoft Solutions
1111111210	Architectures
Students should	select (3) credits from the following
	Itation with a program advisor:
+MST171	Microsoft FrontPage (3) OR
+MST174	Microsoft Visual InterDev (3) OR
+MST254	Microsoft SQL Server Design
TVIST 254	and Implementation (3)
	and implementation (5)
RESTRICTED I	
+CIS162AB	C++: Level I
+CIS162AB +CIS163AA	C++: Level I
+CIS162AB +CIS163AA +CIS166	C++: Level I
+CIS162AB +CIS163AA	C++: Level I
+CIS162AB +CIS163AA +CIS166	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA-	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA- +CIS290AC +CIS296WA-	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA- +CIS290AC	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA- +CIS290AC +CIS296WA-	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA- +CIS290AC +CIS296WA- +CIS296WD	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA- +CIS290AC +CIS296WA- +CIS296WD	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA +CIS290AC +CIS296WA +CIS296WD MST140	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA +CIS290AC +CIS296WA +CIS296WD MST140	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA +CIS290AC +CIS296WA +CIS296WD MST140 +MST150	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA +CIS290AC +CIS296WD MST140 +MST150 +MST152	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA +CIS296WA +CIS296WD MST140 +MST150 +MST152 +MST171	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA- +CIS290AC +CIS296WA- +CIS296WD MST140 +MST150 +MST152 +MST171	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA- +CIS290AC +CIS296WA- +CIS296WD MST140 +MST150 +MST152 +MST171	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA +CIS290AC +CIS296WA +CIS296WD MST140 +MST150 +MST152 +MST171 +MST174 +MST244	C++: Level I
+CIS162AB +CIS163AA +CIS166 +CIS225AB +CIS233DA +CIS235 CIS290AA +CIS296WA +CIS296WD MST140 +MST150 +MST152 +MST171 +MST174 +MST244 +MST254	C++: Level I

GENERAL EL	DUCATION:	25-27 CREDITS	Mathematic	S	
			+MAT120	Intermediate Algebr	
CORE:		15-17 CREDITS	+MAT121	Intermediate Algebr	a (4) OR
First-Year C	omposition		+MAT122	Intermediate Algebr	a (3) OR
+ENG101	First-Year Con	position (3) AND	Equivalent as	indicated by assessmen	nt OR
+ENG102	First-Year Con	nposition(3) OR	Satisfactory c	ompletion of a higher-	level
+ENG107	First-Year Con	position		course	
	for ESL (3) Al				
+ENG108	First-Year Con	position	DISTRIBUTION	ON:	10 CREDITS
	for ESL (3) .	6	Humanities	and Fine Arts	
Oral Comm	unication		Any approved	d general education coι	ırse in the
Any approved	d general educatio	n course in the		and Fine Arts area	
Oral Commu	unications Area .		Social and B	ehavioral Sciences	
Critical Read	ding		Any approved	d general education coι	ırse in the
+CRE101	Critical and E	aluative		ehavioral Sciences area .	
	Reading I (3)	OR	Natural Scie	nces	
Equivalent as	indicated by asse	ssment 3		d general education cou	irse in the
•	·			nces area	
			General Edu	cation Requirements ar	e listed on pages

### CRIMINAL JUSTICE

### **Crime and Intelligence Analysis**

Certificate of Completion: CCL 5056

16 Credits

Division Chairperson: Pamela Petty (480) 732-7006

### Program Description

The Certificate of Completion in Crime and Intelligence Analysis is designed to prepare students to apply the strategies and techniques that constitute the art and science of crime and intelligence analysis in a criminal justice environment. The certificate will also provide opportunities for law enforcement personnel to enhance their professional knowledge and skills in these areas. The program includes the three types of crime analysis: gathering and analyzing crime data for crime trend, pattern, or series detection; the intelligence cycle and the utilization of analytical tools such as telephone toll analysis, flow analysis, link analysis, visual investigative analysis, and time event charting; crime analysis statistics for forecasting and predicting crime trends and series and statistical analysis using computer software; and using ArcView Geographic Information System (GIS) software to perform crime and intelligence analysis functions and presenting information in the form of maps, bulletins, and charts.

### **Job Description**

139-141.

Crime and intelligence analysts perform analysis work for various criminal justice agencies. Duties may include performing statistical and analytical research involving the use of computer applications, random statistical sampling, correlation analysis, regression analysis, and probability studies; gathering and analyzing crime data for crime pattern detection, suspectcrime correlations, target-suspect profiles, and crime forecasting; preparing reports on crime data and trends for police personnel; evaluating intelligence information to determine source reliability, content validity, and potential truthfulness; collecting and compiling intelligence information requirements to recommend, plan, and implement collection plans; generating data in support of investigations; prioritizing collection of data and delegating assignments; making presentations to police personnel, members of the community, and outside agencies. The analyst may also assist the department in monitoring crime and potential crime prevention. Work is performed under the general direction of a supervisor with allowance for independent initiative, judgment, and latitude for selection of methods and procedures.

### **Opportunities**

This certificate program specifically addresses the skills necessary for students interested in entry-level crime and intelligence analyst positions as well as sworn officers and professionals currently employed in a criminal justice position. Job titles may include crime analyst, tactical crime analyst, intelligence analyst, intelligence research analyst, police intelligence analyst, police crime statistical analyst, statistical research aide, police planner, police planning aide, police research aide, and research and statistics analyst. Positions with criminal justice agencies are available at the municipal, county, state, and federal levels. Opportunities also exist in private industry in the areas of fraud analysis, financial crime analysis, phone fraud, loss prevention, and private investigation. The current annual salary range in Arizona is from \$24,000 to \$56,000 depending on education, experience, position, agency, and geographic location.

### Special Requirements

Individual agencies have standardized hiring qualifications and disqualifiers. It is the responsibility of the student to contact the various agencies or other potential employers of interest to determine job eligibility. These requirements may include a comprehensive background check, drug test, and polygraph test. Disqualifiers may include felony convictions, illegal drug activity, and/or other information discovered during the background process.

#### PROGRAM NOTES:

Students must demonstrate sufficient knowledge and skills for each course with an assessment prerequisite by passing the applicable sections of the Crime and Intelligence Analysis Course Prerequisite Assessment Test prior to enrolling in each of the courses.

Students must earn a grade of "C" or better for all courses required within the program in such a manner as to meet the 2.50 overall program minimum G.P.A. requirement upon program completion.

+ indicates course has prerequisites and/or corequisites.

REQUIRED CO	URSES:	16 CREDITS
CIA210	Introduction to Crime	and
	Intelligence Analysis	
+CIA220	Link Analysis, Visual	
	Investigative Analysis (	VIA),
	and Time Event	
	Charting (TEC)	
+CIA230	Telephone Toll and	
	Flow Analysis	
+CIA240	Crime Analysis	
+CIA250	Statistics for Crime An	
+CIA260	Analysis Using Geogra	
	Information Systems (	

### DEVELOPMENTAL DISABILITIES

### Developmental Disabilities Specialist

Certificate of Completion: CCL 5034 14 Credits

Program Contact: Scott Silberman (480) 73

Scott Silberman (480) 732-7078

### **Program Description**

This program prepares students for employment in residential settings serving clients with developmental disabilities. Coursework combines theory and application. Academic preparation focuses on the physical and emotional correlates of developmental disability. Students also gain experience working in residential settings with persons with developmental disability.

#### PROGRAM NOTES:

Students must earn a grade of "C" or better in all Required Courses.

+ indicates course has prerequisites and/or corequisites

Overall program minimum G.P.A. 2.00.

REQUIRED C	OURSES: 11 CRE	DITS
PSY101	Introduction to Psychology	3
+PSY241	Understanding and	
	Changing Behavior	3
+PSY242	Understanding and	
	Changing Behavior Lab	1
+PSY243	The Psychology of Developmer	ıtal
	Disabilities	3
+PSY244	Developmental Disabilities	
	Internsĥip	1

RESTRICTED E		COM110	Interpersonal Communication 3
CFS114	Working with the	+COM259	Communication in Business
	Hyperactive Child		and Professions
CFS176	Child Development 3	FON100	Introductory Nutrition3
+CFS185	Developing IEPs for Children	GBS132	Personal and Family
	with Disabilities		Financial Security3
+CFS257	Working with Families	HES154	First Aid/Cardiopulmonary
	with Diverse Needs3		Resuscitation
+CFS280	Children with Special Needs in	+PSY240	Developmental Psychology 3
	Early Childhood Education 3	+PSY266	Abnormal Psychology3
CFS290AA	Child Abuse: Identification and	+PSY270	Personal & Social Adjustment 3
	Reporting in Child Care	REC250	Recreation Leadership 3
	Settings	SLG101	American Sign Language I 4
CPD102AA	Assertiveness Training2	SPA115	Beginning Spanish
CPD102AD	Eliminating Self-Defeating		Conversation I
	Behavior	+SWU102	Introduction to Social Work 3
CPD102AH	Stress Management 2	+SWU280	Working with Juvenile
CPD102AS	Conflict Resolution 2		Delinquents3

# **Electric Utility Technology**

### **Electric Utility Technology**

Certificate of Completion: CCL 5055

33 Credits

**Program Contact:** 

Academic Advisement (480) 988-8180

### **Program Description**

The Certificate of Completion in Electric Utility Technology program is designed to prepare the student for the position of an apprentice-level line worker who is familiar with the use of tools, materials, and the equipment of the electric utility industry. Students will be trained in power line installation and maintenance, pole climbing and use of tools, truck and equipment operation, and overhead and underground distribution, construction, and maintenance of electrical lines.

#### PROGRAM NOTES:

A grade of "C" or better is required for all courses within the program.

Students must obtain a Commercial Drivers' License from the State of Arizona prior to completion of the Required Courses.

Students must obtain First Aid/Cardiopulmonary Resuscitation (CPR) certification by the completion of EUT215.

Overall program minimum G.P.A. 2.0.

#### **ADMISSION CRITERIA:**

Application and acceptance into the Electric Utility Technology Program.

#### PROGRAM PREREQUISITES:

Passing a physical examination in the twelve-month period prior to acceptance into the program.

REQUIRED	COURSES:	33 CREDITS
+ENG101	First-Year	Composition3
+ENG111	Technical '	Writing OR
+ENG102	First-Year	Composition3
+EUT110		I
+EUT112	Basic Elect	ricity: AC and DC4
+EUT115		ing Ĭ
+EUT210		. II
+EUT211		Apparatus 4
+EUT215		ing II6
+MAT102	Mathemat	
		Applications

### **Electric Utility Technology**

Associate in Applied Science: AAS 3855

64 Credits

**Program Contact:** 

Academic Advisement (480) 988-8180

### **Program Description**

The Associate in Applied Science in Electric Utility Technology program is designed to prepare the student for the position of an apprentice-level line worker who is familiar with the use of tools, materials, and the equipment of the electric utility industry. Students will be trained in power line installation and maintenance, pole climbing and use of tools, truck and equipment operation, and overhead and underground distribution, construction, and maintenance of electrical lines. The General Education courses provide a well-rounded background that includes writing, reading, communication, mathematics, natural science, social sciences, and humanities and fine arts.

### PROGRAM NOTES:

A grade of "C" or better is required for all courses within the program.

Students must obtain a Commercial Drivers' License from the State of Arizona prior to completion of the Required Courses.

Students must obtain First Aid/Cardiopulmonary Resuscitation (CPR) certification by the completion of EUT215.

Overall program minimum G.P.A. 2.00.

### ADMISSION CRITERIA:

Application and acceptance into the Electric Utility Technology Program.

**Program Prerequisites:** 

Passing a physical examination in the twelve-month period prior to acceptance into the program.

REQUIRED CO	URSES:	33 CREDITS
+ENG101	First-Year Composition	13
+ENG111	Technical Writing OR	
+ENG102	First-Year Composition	i3
+EUT110	Line Work I	2
+EUT112	Basic Electricity: AC a	nd DC4
+EUT115	Field Training I	6
+EUT210	Line Work II	2
+EUT211	Electrical Apparatus	
+EUT215	Field Training II	
+MAT102	Mathematical Concept	
	Applications	

RESTRICTED E		15 CREDITS
BPC110	Computer Usage and	l _
GTG 4 0 F	Applications	
CIS105	Survey of Computer Information Systems	0
+GBS233	Business Communic	
PED115	Lifetime Fitness (2-8)	
PED117	Weight Training for	OK
ILDIII	Wellness(2-8)	2-8
SPA115	Beginning Spanish	
	Conversation I	
+SPA116	Beginning Spanish	
	Conversation II	
GENERAL EDU	ICATION:	16 CREDITS
CODE		6 CREDITS
CORE: First-Year Cor	nnodition	6 CKEDIIS
Met by FNC10	D1 and ENG111 or E	NC102 in
	ses area	
Oral Commun		
	general education cou	se in the
Oral Commun	ication area	
Critical Readi		
+CRE101	Critical and Evaluativ	ve.
. 0102101	Reading I (3) OR	. •
Equivalent as in	ndicated by assessmen	t 3
Mathematics	·	
Met by MAT10	02 in Required Course	es area 0
DISTRIBUTION	I:	10 CREDITS
Humanities ar		
Any approved g	general education cou	rse in the
Humanities and	d Fine Arts area	
	navioral Sciences	
Any approved §	general education cou avioral Sciences area.	rse in the
Natural Science		
Any approved g	general education cou	rse in the
Natural Science	es area	4

General Education Requirements are listed on pages 139-141.

### **General Business**

### **General Business**

Associate in Applied Science: AAS 3851 64 Credits

**Program Contact:** 

Academic Advisement (480) 732-7317

### **Program Description**

The Associate in Applied Science (AAS) degree in General Business is a program designed to meet the needs of students who wish to gain a broad understanding of business principles. The program is designed to acquaint the student with major subject areas of business, such as accounting, economics, marketing, management, and business law. In addition, this program could aid a student in recognizing a specific business field to be pursued in future studies. Completion of this degree can aid in obtaining entry-level employment as well as in career advancement.

Note: Students interested in pursuing a baccalaureate degree are strongly encouraged to meet with a academic advisor for guidance.

#### **PROGRAM NOTES:**

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. 2.00.

REQUIRED CO	URSES: 3	1 CREDITS
ACC111	Accounting Principles I	3
+ACC230	Uses of Accounting	
	Information I	3
CIS105	Survey of Computer	
	Information Systems	3
CIS131AA	Doing Business on the Ir	
GBS151	Introduction to Business	
GBS205	Legal, Ethical, and Regul	atory
	Issues in Business	
+GBS233	<b>Business Communication</b>	
MGT229	Management and Leader	ship 3
MGT251	Human Relations in Bus	
MKT271	Principles of Marketing	3
TQM101	Quality Customer Service	
•	v j	

RESTRICTED E	ELECTIVES: 8 CREDITS
Students should	select courses in consultation with pro-
gram advisor. 1	Minimum 6-8 credits required depend-
ent on 3-5 credi	its in Mathematics area.
+ACC115	Computerized Accounting
	(Quickbooks)
+ACC240	Uses of Accounting
	Information II
BPC111AA	Computer Keyboarding I 1
BPC114DE/	
CIS114DE	Spreadsheet
BPC117AM/	Database Management:
CIS117AM	Microsoft Access – Level I 1
BPC117BM/	
+CIS117BM	Microsoft Access – Level II 1
BPC120DA/	Microsoft Graphics:
CIS120DA	IBM PowerPoint1
BPC121AB/	MS-DOS
CIS121AB	Operating System1
BPC121AE/	Windows Operating
CIS121AE	System: Level I
BPC135++/	Word Processing Software
+OAS135++	(Any module)
CIS133AA	The Internet: Level I
+CIS133BA	The Internet: Level II1
MGT253	Owning and Operating a
	Small Business
GENERAL EDU	JCATION: 25-27 CREDITS
CORE:	15-17 CREDITS

### **First-Year Composition**

+ENG101	First-Year Composition (3) AND
+ENG102	First-Year Composition (3) OR
+ENG107	First-Year Composition
	for ESL (3) AND
+ENG108	First-Year Composition
	for ESL (3)
0.10	• •

#### **Oral Communication**

Any approved general education course in the 

#### **Critical Reading** +CRF101

+CRE101	Critical and Evaluative
	Reading I (3) OR
Equivalent as	indicated by assessment
3.5.1	

#### **Mathematics**

+MAT120	Intermediate Algebra (5)OR
+MAT121	Intermediate Algebra (4) OR
+MAT122	Intermediate Algebra (3) OR

Equivalent as indicated by assessment OR Satisfactory completion of a higher-level	<b>Social and Behavioral Sciences</b> ECN111 Macroeconomic Principles 3
mathematics course	Natural Sciences
DISTRIBUTION: 10 CREDITS	Any approved general education course in the Natural Sciences area
Humanities and Fine Arts	
Any approved general education course in the Humanities and Fine Arts area	General Education Requirements are listed on pages 139-141.



# Massage

### Therapeutic Massage

Certificate of Completion: CCL 5144

41-45 Credits

Program Contact: Ed Loughlin (480) 732-7302

### **Program Description**

This certificate program is designed to provide students with the philosophical foundation and technical skills required to perform therapeutic massage. Students are prepared to manage a private massage practice and/or work in collaboration with other health field professionals. Completers of this certificate program will be qualified to apply for licensure as massage therapists in the Phoenix metropolitan area.

#### PROGRAM NOTES:

- + indicates course has prerequisites and/or corequisites.
- ++ indicates any course.

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

Students must attend an orientation prior to making an application to the program and receive advisement from the Program Director.

A special application must be completed to be officially accepted in the program. Contact the Advisement Center to obtain the Therapeutic Massage Program packet.

Overall program minimum G.P.A. 2.00.

#### **ADMISSION CRITERIA:**

High school diploma or GED.

Completion of Program Prerequisites.

Proof of current immunization: MMR (Measles, Mumps, and Rubella), TB (tuberculosis skin test), varicella, and HEB (Hepatitis vaccine).

CPR Certification at the Health Care Provider level.

Completion of the Fitness Declaration Form.

Pass a drug screening.

Successfully complete an interview process.

Acceptance into the Therapeutic Massage Program.



PROGRAM PR	EREQUISITES: 10-14 CREDITS	RESTRICTED		
Note: the credit hour range is subject to change depend- ing on the student's educational experiences.		Note: Students from each categ	Note: Students must select a minimum of one (1) course from each category	
mg on the stude	гиз есисанона ехрепенсея.	man carea	0-1)	
OPTION 1:	10 CREDITS	CATEGORY I:		
HCC courses at	re waived for students who have com-		ninimum of one (1) course from	
pleted an Associ	iate in Applied Science degree or higher	Category I.	77 11017	
	lth science discipline from a regionally	HES100 HES271	Healthful Living	
	tution of higher education recognized by	HES2/1	Prevention and Treatment of	
	nty Community College District.	WED207AC	Athletic Injuries	
BIO160	Introduction to Human Anatomy	WEDZ97AC	Special Topics: Therapeutic Massage	
UID151	and Physiology4		Therapeutic Massage	
WED151	Overview of Alternative	CATEGORY II:		
WED105	Medicine		ninimum of one (1) course from	
WED165	Overview of Massage Therapy 2		ermission of Program Director is	
WED215	Self-Care for Massage Therapists	required.	immon of Program Director is	
	Therapists	+WED210	Sports Massage	
OPTION 2:	14 CREDITS	+WED262	Acupressure/Shiatsu I	
BIO160	Introduction to Human	+WED264	Acupressure/Shiatsu II 2	
DIO 100	Anatomy and Physiology 4		Special Topics:	
HCC130	Fundamentals in		Therapeutic Massage 2	
1100100	Health Care Delivery		•	
HCC145AA	Medical Terminology for	CATEGORY III		
	Health Care Workers I 1	Note: Select a n	ninimum of one (1) course from	
WED151	Overview of Alternative	Category III.		
	Medicine	WED156	Humor and Play	
WED165	Overview of Massage Therapy 2	WED162	Meditation and Wellness	
WED215	Self-Care for Massage	WED170	Principles of Homeopathy 1	
	Therapists	WED172	Herbal Remedies	
		WED176 WED218	Flower Essences	
REQUIRED CO			Aromatherapy	
MGT253	Owning and Operating a	WEDLITAA	Therapeutic Massage	
WED990	Small Business	CATEGORY IV	<del>-</del>	
+WED230	Therapeutic Massage Practices I		ninimum of one (1) course from	
+WED231	Therapeutic Massage	Category IV.		
· WLD 201	Practices II6		Aikido (1) OR	
+WED232	Therapeutic Massage		Aikido (1) OR	
,,,22,202	Practices III	PED201AO	Aikido (1) OR	
+WED250	Clinical Practicum	PED202AO	Aikido (1)	
		PED101VR	Tai Chi (1) OR	
		PED102VR	Tai Chi (1) OR	
		PED201VR	Tai Chi (1) OR	
		PED202VR	Tai Chi (1)	
		PED101YJ	Yoga (1) OR	
		PED102YJ	Yoga (1) OR	
		PED201YJ PED202YJ	Yoga (1) OR Yoga (1)	
		WED1217	Physical Conditioning for	
		PED121	Massage Therapists1	
		1 11/16/1	Tytussage Therapism	

WED297AC Special Topics:

### Therapeutic Massage

Associate in Applied Science: AAS 3144

66-70 Credits

**Program Contact:** Ed Loughlin (480) 732-7302

### **Program Description**

This degree program is designed to provide students with the philosophical foundation and technical skills required to perform therapeutic massage. Students are prepared to manage a private massage practice and/or work in collaboration with other health field professionals. Completers of this degree program will be qualified to apply for licensure as massage therapists in the Phoenix metropolitan area.

#### PROGRAM NOTES:

- + indicates course has prerequisites and/or corequisites.
- ++ indicates any course.

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

Students must attend an orientation prior to making an application to the program and receive advisement from the Program Director.

A special application must be completed to be officially accepted in the program. Contact the Program Director or Advisement to obtain the Therapeutic Massage Program packet.

Overall program minimum G.P.A. 2.00.

#### ADMISSION CRITERIA:

High school diploma or GED.

Completion of Program Prerequisites.

Proof of current immunization: MMR (Measles, Mumps, and Rubella), TB (tuberculosis skin test), varicella, and HEB (Hepatitis vaccine).

CPR Certification at the Health Care Provider level.

Completion of the Fitness Declaration Form.

Pass a drug screening.

Successfully complete an interview process.

Acceptance into the Therapeutic Massage Program.

#### PROGRAM PREREQUISITES: 10-14 CREDITS Note: the credit hour range is subject to change depending on the student's advectional

ing on the student's educational experiences.		
OPTION 1:	10 CREDITS	
HCC courses are waived for students who have com-		
pleted an Associate in Applied Science degree or higher		
dograe in a heal	th science discipline from a regionally	
	tution of higher education recognized by	
	nty Community College District.	
BIO160	Introduction to Human Anatomy	
	and Physiology4	
WED151	Overview of Alternative	
	Medicine	
WED165	Overview of Massage Therapy 2	
	Call Care for Manager Therapy 2	
WED215	Self-Care for Massage Therapists	
	Therapists	
OPTION 2:	14 CREDITS	
BIO160	Introduction to Human Anatomy	
DIO100	and Dhysiology	
1100400	and Physiology	
HCC130	Fundamentals in Health Care	
	Delivery	
HCC145AA	Medical Terminology for Health	
	Care Workers I	
WED151	Overview of Alternative	
WEDIOI	Medicine	
WED105	O	
WED165	Overview of Massage Therapy 2	
WED215	Self-Care for Massage Therapists2	
REQUIRED CO	URSES: 24 CREDITS	
MGT253	Owning and Operating a	
11101200	Small Business	
WED990		
+WED230	Therapeutic Massage	
	Practices I	
+WED231	Therapeutic Massage	
	Practices II6	
+WED232	Therapeutic Massage Practices III	
	Practices III	
+WED250	Clinical Practicum	
· VVLD200	Chinear Fracticum	
RESTRICTED I	ELECTIVES: 11 CREDITS	
Note: Students must select a minimum of one (1) course		
from each category.		
nom cach categ	01 J.	
CATEGORY I:		
Note: Select a n	ninimum of one (1) course from	
Category I.	(-) 304100 11011	
HES100	Healthful Living	
	Healthful Living	
HES271	Prevention and Treatment	

CATEGORY II		GENERAL ED	UCATION:	21 CREDITS
Note: Select a 1	ninimum of one (1) course from			
Category II. P	ermission of Program Director is	CORE:		15 CREDITS
required.		First-Year Co	mposition	
+WED210	Sports Massage2		general education co	urse in the
+WED262	Acupressure/Shiatsu I 2		nposition area	
+WED264	Acupressure/Shiatsu II 2	Oral Commu	•	
WED297AB	Special Topics:	COM110	Interpersonal	
	Therapeutic Massage2	COMITIO	Communication (3	R)OR
CATEGORY II		+COM230	Small Group	,,010
	minimum of one (1) course from	100111200	Communication (3	3)3
Category III.	II	Critical Read		,,
WED156	Humor and Play		d general education c	ourse in the
WED162	Meditation and Wellness 1		ng area	
WED170 WED172	Principles of Homeopathy 1 Herbal Remedies		ng area	
WED172 WED176	Flower Essences	Mathematics	J	! 4l
WED176 WED218	Aromatherapy		d general education c	
	Special Topics:	Mathematics a	area	3
WEDESTAR	Therapeutic Massage	DISTRIBUTIO		( ADEDITA
CATEGORY IV				6 CREDITS
	ninimum of one (1) course from	Humanities &		1
Category IV.	(2) 004100 11 011	Any approved	general education co	urse in the
	Aikido (1) OR		nd Fine Arts area	
	Aikido (1) OR		havioral Sciences	
	Aikido (1) OR	REC120	Leisure and the Qu	alify of Life 3
	Aikido (1)	Natural Scien	ices	
	Tai Chi (1) OR	Met by BIO16	60 in Program Prereq	uisites area0
PED102VR	Tai Chi (1) OR	-		
PED201VR	Tai Chi (1) OR		ation Requirements a	re listed on pages
PED202VR	Tai Chi (1)1	139-141.		
PED101YJ	Yoga (1) OR			
PED102YJ	Yoga (1) OR			
PED201YJ	Yoga (1) OR			
PED202YJ	Yoga (1)			
WED121/	Physical Conditioning for			
PED121	Massage Therapists 1			

### **Nutrition**

### **Dietetic Technology**

Associate in Applied Science: AAS 3840

64-70 Credits

**Program Contact:** Sue Gaumont (480) 732-7142

### **Program Description**

The Dietetic Technology program is an Associate in Applied Science degree emphasizing medical nutrition therapy and food service management. Students acquire the knowledge and skills foundation to work in dietetics through the integration of classroom learning and 450 hours of supervised practice. Emphasis is placed on the development of communication and human relations techniques that prepare the graduate for professional success.

### Job Description and Opportunities

The Dietetic Technician, Registered is prepared to play a key role in providing quality, cost-effective client care and food service management in a variety of employment settings. Job responsibilities may include patient counseling and education in basic and therapeutic nutrition, medical record documentation, health promotion and disease prevention, menu development, and supervisory and administrative skills related to nutrition services and institutional food production.

Dietetic Technicians are an integral part of health care and food service management teams. They work independently or in partnership with Registered Dietitians in a variety of settings:

### **Clinical**

Hospitals, clinics, nursing homes, retirement centers, home health care programs, and research facilities.

#### **Food Service**

Schools, daycare centers, correctional facilities, restaurants, hospitals, and long-term care facilities.

#### **Community and Public Health**

WIC programs, public health agencies, and community health programs.

#### Wellness

Health clubs, weight management clinics, and community wellness centers.

#### **Business**

Food companies, food venders, and food distributors.

The Dietetic Technology program is currently granted developmental accreditation by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995, (312) 899-4876. Upon successful completion of the program, the graduate will be eligible to take the CADE Registration Examination in order to become a Dietetic Technician, Registered (DTR).

#### **PROGRAM NOTES:**

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

- + indicates course has prerequisites and/or corequisites.
- ++ indicates any module

Overall program minimum G.P.A. 2.00.

#### PROGRAM PREREQUISITES:

Students selecting BIO201 in the Required Courses area must complete BIO156 or BIO181 in consultation with a program advisor.

BIO156 Human Biology for Allied Health (4) OR

**BIO181** General Biology (Majors) I (4) . . . 4 **CPR Certification for Health Care Providers** through the American Red Cross or the American Heart Association.

#### **REQUIRED COURSES:**

**39-43 CREDITS** 

Students selecting BIO201 in the Required Courses area must complete BIO156 or BIO181 in the Program Prerequisites area.

BIO160	Introduction to Human
	Anatomy and Physiology (4) OR
+BIO201	Human Anatomy and
	Physiology I (4) ÅND
+BIO202	Human Anatomy and
	Physiology II (4)
BPC110	Computer Usage and
	Applications (3) OR

BPC101AA	Introduction to		Oral Commu	nication
	Microcomputers 1	I: IBM (1) AND	COM100	Introduction to Human
+BPC101BA	Introduction to			Communication (3) OR
	Microcomputers 1	II: IBM (1) AND	COM110	Interpersonal
+BPC101CA	Introduction to			Communication (3) OR
	Microcomputers 1	III: IBM (1) OR	+COM225	Public Speaking (3) OR
BPC114++/	Spreadsheet		+COM230	Small Group
CIS114++	Level I (Any mode	ule) (1) AND		Communication (3) 3
BPC117++/	Database Manage	ment	Critical Readi	
CIS117++	Level I (Any mode	ule) (1) AND	+CRE101	Critical and Evaluative
+BPC130++/	Beginning Word		. 0112101	Reading I (3) OR
+OAS130++		nodule) (1)3	+CRE111	Critical Reading for Business
FON104	Certification in Fo	ood Service	, 0112111	and Industry (3) OR
		ion 1	Equivalent as i	indicated by assessment
FON125	FON125 Introduction to the Profession Mathematics		,	
			+MAT120	Intermediate Algebra (5) OR
FON142AB		nciples 3	+MAT121	Intermediate Algebra (4) OR
+FON207		Management3	+MAT121	Intermediate Algebra (4) OR
+FON225	Research Fundam			indicated by assessment OR
		sional1	Satisfactory co	mplation of a higher-level
+FON241		nan Nutrition3	Satisfactory completion of a higher-level mathematics course	
+FON242	Introduction to Pl		mathematics course	
		3 3	DISTRIBUTIO	N: 10 CREDITS
+FON244	Practicum I: Food	d Service		
	Practicum I: Food Management	d Service 5	Humanities a	nd Fine Arts
+FON244 +FON245	Practicum I: Food Management Practicum II: Med	l Service 5 dical	<b>Humanities a</b> Any approved	nd Fine Arts general education course in the
+FON245	Practicum I: Food Management Practicum II: Me Nutrition Therapy	d Service 5 dical y4	<b>Humanities a</b> Any approved Humanities ar	nd Fine Arts general education course in the nd Fine Arts area
	Practicum I: Food Management Practicum II: Me Nutrition Therapy Practicum III: Co	d Service 5 dical y4 ommunity	Humanities a Any approved Humanities an Social and Be	nd Fine Arts general education course in the nd Fine Arts area
+FON245 +FON246	Practicum I: Food Management Practicum II: Med Nutrition Therapy Practicum III: Co Nutrition	1 Service 	<b>Humanities a</b> Any approved Humanities ar	nd Fine Arts general education course in the nd Fine Arts area
+FON245 +FON246 HCE103	Practicum I: Food Management Practicum II: Med Nutrition Therapy Practicum III: Co Nutrition Basic Medical Terr	d Service	Humanities a Any approved Humanities an Social and Be ECN111	nd Fine Arts general education course in the nd Fine Arts area
+FON245 +FON246	Practicum I: Food Management Practicum II: Med Nutrition Therapy Practicum III: Co Nutrition Basic Medical Terr	1 Service 	Humanities a Any approved Humanities an Social and Be	general education course in the define Arts area
+FON245 +FON246 HCE103 PED115	Practicum I: Food Management Practicum II: Me Nutrition Therapy Practicum III: Co Nutrition Basic Medical Terr Lifetime Fitness .	d Service	Humanities a Any approved Humanities an Social and Be ECN111 ECN112	general education course in the and Fine Arts area
+FON245 +FON246 HCE103	Practicum I: Food Management Practicum II: Me Nutrition Therapy Practicum III: Co Nutrition Basic Medical Terr Lifetime Fitness .	d Service	Humanities a Any approved Humanities an Social and Be ECN111	general education course in the and Fine Arts area
+FON245 +FON246 HCE103 PED115 GENERAL EDI	Practicum I: Food Management Practicum II: Me Nutrition Therapy Practicum III: Co Nutrition Basic Medical Terr Lifetime Fitness .	d Service	Humanities a Any approved Humanities ar Social and Be ECN111 ECN112 PSY101	general education course in the and Fine Arts area
+FON245 +FON246 HCE103 PED115 GENERAL EDIC	Practicum I: Food Management Practicum II: Med Nutrition Therapy Practicum III: Co Nutrition Basic Medical Tern Lifetime Fitness .	d Service	Humanities a Any approved Humanities ar Social and Be ECN111 ECN112 PSY101 SOC101	general education course in the and Fine Arts area
+FON245 +FON246 HCE103 PED115 GENERAL EDICORE: First-Year Con	Practicum I: Food Management Practicum II: Med Nutrition Therapy Practicum III: Cod Nutrition Basic Medical Terra Lifetime Fitness .  JCATION:  mposition	d Service	Humanities a Any approved Humanities an Social and Be ECN111  ECN112  PSY101  SOC101  Natural Scien	general education course in the and Fine Arts area
+FON245 +FON246 HCE103 PED115 GENERAL EDIC CORE: First-Year Core+ENG101	Practicum I: Food Management Practicum II: Med Nutrition Therapy Practicum III: Co Nutrition Basic Medical Terr Lifetime Fitness .  JCATION:  mposition First-Year Componies	d Service	Humanities a Any approved Humanities an Social and Be ECN111  ECN112  PSY101  SOC101  Natural Scien +CHM130	general education course in the and Fine Arts area
+FON245 +FON246 HCE103 PED115 GENERAL EDICORE: First-Year Con	Practicum I: Food Management Practicum II: Med Nutrition Therapy Practicum III: Co Nutrition Basic Medical Terr Lifetime Fitness .  JCATION:  mposition First-Year Componies	d Service	Humanities a Any approved Humanities an Social and Be ECN111  ECN112  PSY101  SOC101  Natural Scien +CHM130	general education course in the and Fine Arts area
+FON245  +FON246  HCE103 PED115  GENERAL EDIC  CORE: First-Year Core +ENG101 +ENG107	Practicum I: Food Management Practicum II: Med Nutrition Therapy Practicum III: Co Nutrition Basic Medical Terr Lifetime Fitness .  JCATION:  mposition First-Year Compoder First-Year Compoder ESL (3) AND	d Service	Humanities a Any approved Humanities ar Social and Be ECN111  ECN112  PSY101  SOC101  Natural Scien +CHM130 +CHM130LL	general education course in the and Fine Arts area
+FON245 +FON246 HCE103 PED115 GENERAL EDIC CORE: First-Year Core+ENG101	Practicum I: Food Management Practicum II: Med Nutrition Therapy Practicum III: Co Nutrition Basic Medical Terr Lifetime Fitness .  JCATION:  mposition First-Year Compoder First-Year Compoder ESL (3) AND	d Service	Humanities a Any approved Humanities ar Social and Be ECN111  ECN112  PSY101  SOC101  Natural Scien +CHM130 +CHM130LL +CHM151	general education course in the and Fine Arts area
+FON245  +FON246  HCE103 PED115  GENERAL EDIC  CORE: First-Year Core +ENG101 +ENG107	Practicum I: Food Management Practicum II: Med Nutrition Therapy Practicum III: Co Nutrition Basic Medical Terr Lifetime Fitness .  JCATION:  mposition First-Year Compoder First-Year Compoder ESL (3) AND	d Service	Humanities a Any approved Humanities ar Social and Be ECN111  ECN112  PSY101  SOC101  Natural Scien +CHM130 +CHM130LL +CHM151	general education course in the and Fine Arts area
+FON245  +FON246  HCE103 PED115  GENERAL EDIC  CORE: First-Year Core +ENG101 +ENG107	Practicum I: Food Management Practicum II: Med Nutrition Therapy Practicum III: Co Nutrition Basic Medical Terr Lifetime Fitness .  JCATION:  mposition First-Year Compoder First-Year Compoder ESL (3) AND	d Service	Humanities a Any approved Humanities ar Social and Be ECN111  ECN112  PSY101  SOC101  Natural Scien +CHM130 +CHM130LL +CHM151	general education course in the and Fine Arts area
+FON245  +FON246  HCE103 PED115  GENERAL EDIC  CORE: First-Year Core +ENG101 +ENG107	Practicum I: Food Management Practicum II: Med Nutrition Therapy Practicum III: Co Nutrition Basic Medical Terr Lifetime Fitness .  JCATION:  mposition First-Year Compoder First-Year Compoder ESL (3) AND	d Service	Humanities a Any approved Humanities ar Social and Be ECN111  ECN112  PSY101  SOC101  Natural Scien +CHM130 +CHM130LL +CHM151 +CHM151LL	general education course in the and Fine Arts area

# **Special Programs**

# Training for Business, Industry and Government

CGCC customizes curriculum and designs specialized classes to respond to the varied training needs of local businesses, industries, and governments. Call the Associate Dean of Occupational Education at (480) 732-7016 for more information.

### **Continuing Education**

The Continuing Education department at Chandler-Gilbert Community College offers a number of educational opportunities:

- Non-credit special interest classes.
- Summer program for gifted youth.
- Hundreds of on-line courses that technology, business, personal and professional programs.
- Non-credit classes for business, industry, and governmental organizations.

Inquiries should be directed to Continuing Education by calling (480) 732-7080.

### **English as a Second Language**

CGCC is committed to a partnership in learning with students who are non-native English speakers. The English as a Second Language (ESL) courses are designed to help foreign speakers from a variety of countries learn English by emphasizing four skill areas: listening, speaking, reading, and writing.

Students enrolling in ESL courses should be tested so they can be placed in the appropriate skill levels. Based on test scores, students are placed in the appropriate-level conversation, grammar, and writing courses. Call (480) 732-7205 to schedule an appointment for ESL testing.

Call (480) 732-7342 for more information about CGCC's ESL program or visit the Web site at http://www.cgc.maricopa.edu/esl/.

### Fitness, Wellness and Recreation

CGCC offers a variety of fitness, wellness, and recreation opportunities on the Pecos and Williams Campuses. The Williams Physical Education Center is a multipurpose facility which houses the Fitness Center, gymnasium, and racquetball, volleyball, and indoor and outdoor basketball courts. The Pecos Fitness Center specializes in strength and cardiovascular training programs, and also has a multipurpose room for yoga, tai chi, aerobics, karate, and other activities.

### **Fitness Centers**

Both Fitness Centers feature state-of-the-art computerized cardiovascular equipment, as well as Cybex, and Hammer Strength weight training machines. Lockers, shower facilities, and workout towels are also available to students.

Individual fitness assessments and instruction are provided by degreed and certified professionals in the exercise field. All students must be enrolled in a credit or non-credit Lifetime Fitness course to utilize the facilities and have a current CGCC identification card. Additional information is available by calling the Pecos Campus Fitness Center at (480) 732-7200 or the Williams Campus Fitness Center at (480) 988-8400.

### Wellness

The wellness program offers students, faculty, staff, and community members the following opportunities:

- The Wellness Lectures present speakers on nutrition, weight control, exercise, sports performance, injury prevention and rehabilitation, successful aging, and stress management;
- Credit and non-credit courses in weight control, nutrition, Kajukenbo Karate, rock climbing, yoga, hiking, fly fishing, golf, cycling, aerobics, mountain biking, outdoor survival camping, and more.
- Health education computer programs for dietary analysis and fitness;



- Health and fitness newsletters, journals, audiovideo tapes and related information;
- Annual wellness activities such as health screenings, recreational sports tournaments, Senior Health and Fitness Day, Cancer Awareness Week, National Nutrition Month, Breast Canter Walk, and AIDS Walk.

Students, faculty, staff, and community members interested in using wellness resources can contact the Pecos Campus Fitness Center at (480) 732-7200 or the Williams Campus Fitness Center at (480) 988-8400 for more information.

#### Recreation

The Physical Education Center at the Williams Campus, with its well-qualified staff, provides an array of intramural sports leagues and recreational activities, such as indoor and outdoor basketball, indoor and sand volleyball, racquetball, volleyball, softball, tennis, and soccer. These leagues and activities are available to MCCCD and Arizona State University East students, staff, and their families. Students with current college identification cards may also check out equipment for Community Hour activities that include informal basketball, volleyball and table tennis. Call (480) 988-8402 for additional information.

### **Honors Program**

The CGCC Honors Program provides the opportunity for academically advanced students to participate in challenging and rewarding educational experiences. The purpose of the Honors Program is to foster greater depth of thought in reading, writing, and discussion with faculty and guest lecturers, which will better prepare Honors students to complete baccalaureate degrees or to begin their careers. A variety of academic scholarships and fee waivers are available to eligible Honors Program students.

Honors students enjoy:

- Fee-awards and scholarships
- Special recognition on transcripts and diplomas

- Cultural and social activities, such as the Honors Forum Lecture Series
- Enhanced intellectual growth through Honors courses and projects

Students with a grade point average of 3.25 or better on a 4.0=A scale based on at least 12 credit hours of previous college coursework are invited to apply as a Fee Waiver Scholar. Those graduating in the top 15% from an accredited Maricopa County high school are invited to apply to the Honors Program as a Presidents' Scholar.

For full details on the Honors Program or Honors scholarships, visit www.cgc.maricopa.edu/honors/ or contact the Honors Coordinator at (480) 732-7082.

### Performing Arts

The Performing Arts Program at CGCC is an integrated approach to dance, theatre, and music. The classes, while separate, are coordinated to provide students a broader base to their education and more versatility in the performing arts.

A wide variety of opportunities exist for student involvement in the performing arts. Naturally, dance, music, and theatre performers are needed, but there are also many experiences available related to production:

- public relations, advertising, and promotion
- computer graphics
- video production
- newsletter publishing
- costumes
- scenery
- make-up
- lighting

College credit may be earned for some of the above. For more information on performing arts at CGCC, please call (480) 732-7040, (480) 732-7136, or (480) 732-7144.



# Course Descriptions





# **Course Descriptions**

All courses offered by the Maricopa Community Colleges appear in a standardized format using six common course elements. Students are encouraged to become familiar with the course elements included in a course description. Please see "How to Read Course Descriptions" below.

The courses that follow are all of the courses offered at Chandler-Gilbert Community College (CGCC). Not all courses in this section will necessarily be offered during any given school year. The intent of the Course Description section is to enable students to review courses that are available at CGCC.

### **How To Read Course Descriptions**

All courses offered at the Maricopa Community Colleges are identified by a three-letter abbreviation of the academic subject plus a three-digit number (e.g., ENG101 identifies an English course). Course descriptions are listed alphabetically and in ascending numerical order.

Each course listing has six common elements:

- **Course Prefix:** Three-letter subject code abbreviation indicating discipline/area of study (e.g., ENG).
- **Course Number:** Three-digit number assigned to indicate sequence and academic level. Numbers range from 001-299. Courses numbered below 100 are offered for the purpose of strengthening skills and knowledge and cannot be applied toward degrees awarded by Maricopa Community Colleges. These courses cannot be transferred to four-year institutions. First-year courses are generally identified with 100-level numbers. Second-year courses are generally identified with 200-level numbers.
- **Course Title:** Identifying name of the course. May also indicate course level (e.g., College Algebra or Beginning Spanish Conversation I).
- **Course Description:** Brief statement describing the content of the course. Instructor's course syllabus gives additional information, including objectives and grading criteria.

- **Course Credit Hours:** College credit hours awarded for satisfactory completion of the course.
- **Course Prerequisites and/or Corequisites:** Requirements that must be met before or, in the case of corequisites, at the same time as enrollment in a course. Not all courses have prerequisites or corequisites.

#### **EXAMPLE:**

- (1) = Course Prefix
- (2) = Course Number
- (3) = Course Title
- (4) = Course Description
- (5) = Course Credits
- (6) = Course Prerequisites and/or Corequisites
  - = Periods: Weekly time in class during a typical 16-week semester; 50 minutes = 1 period.
- $^{(1)}$  ENG  $^{(2)}$  101

(5) 3 CREDITS *3 PERIODS

### (3) First-Year Composition

(4) Standard English writing skills. Emphasis on expository composition. (6) Prerequisites: Appropriate English placement test score or "C", or better, in ENG071.

### **Accounting (ACC)**

ACC111 3 CREDITS 3 PERIODS

### Accounting Principles I

Fundamental theory of accounting principles and procedures. Prerequisites: None.

#### 2 CREDITS ACC115 3 PERIODS

### 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.

#### ACC115AA 1 CREDIT 2 PERIODS Computerized Accounting: Quicken-Level I

## Introduction to using Quicken to automate an

accounting system. Prerequisites: ACC107, or higher level accounting course, or permission of instructor.

Computerized Accounting: Peachtree-Level I Introduction to using Peachtree to automate an accounting system. Prerequisites: ACC107, or higher level accounting course, or permission of instructor.

ACC115BA

1 CREDIT

2 PERIODS

### Computerized Accounting: Quicken-Level II

Additional applications using Quicken to automate an accounting system. Prerequisites: ACC115AA.

#### ACC230

3 CREDITS

3 PERIODS

### Uses of Accounting Information I

Introduction to the uses of accounting information for internal and external purposes with emphasis on financial statement analysis. Prerequisites: Grade of "C" or better in ACC111 or ACC211, or a grade of "C" or better in (ENG101 and MAT151 and CRE101), or equivalent, or satisfactory score on District placement exam.

#### ACC240

3 CREDITS

3 PERIODS

### Uses of Accounting Information II

### Uses of Accounting Information II Introduction to the uses of accounting information

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

3 PERIODS

### Introductory Accounting Lab

Procedural details of accounting for the accumulation of information and generation of reports for internal and external users. Prerequisites: None.

### ACC270AA

1 CREDIT

1 PERIOD

### Accounting Internship

Accounting work experience in a business or industry. Eighty hours of designated work per credit per semester. Maximum of 3 credits allowed. Prerequisites: Departmental approval.

#### ACC270AB

2 CREDITS

2 PERIODS

2 PERIODS

### Accounting Internship

Accounting work experience in a business or industry. Eighty hours of designated work per credit totaling 160 hours per semester. Maximum of 3 credits allowed. Prerequisites: Departmental approval.

#### ACC270AC

3 CREDITS

3 PERIODS

### **Accounting Internship**

Accounting work experience in a business or industry. Eighty hours of designated work per credit total-

ing 240 hours per semester. Maximum of 3 credits allowed. Prerequisites: Departmental approval.

# Administration of Justice Studies (AJS)

AJS101

3 CREDITS 3 PERIODS

### **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.

### AJS123

3 CREDITS

3 PERIODS

### **Ethics and the Administration of Justice**

Introduces and explores ethical issues and the justice system. Focuses on ethics and the law, the police, courts and corrections. Reviews ethical theory, concepts and practices as they relate to administration of justice. Encourages critical thinking and value decision making in criminal justice system situations. Prerequisites: None.

#### **AJS230**

3 CREDITS

3 PERIODS

### The Police Function

Theories of procedures and methods of operations of public police with emphasis on discretionary powers available to the working police officer. Career opportunities and current trends in law enforcement presented. Prerequisites: None.

### **Aeronautics (AET)**

**AET107** 

5 CREDITS

**5 PERIODS** 

### Private Pilot Ground School

Ground school in preparation for the Federal Aviation Administration (FAA) Private Pilot Certificate written examination. Includes aerodynamics, airplane systems, airports, airspace, communications, Federal Air Regulations, navigation, airplane performance, flight planning, and flight physiology. Requires passing a written exam similar to the FAA Private Pilot written exam. Prerequisites: None. Corequisite: AET110.

COURSE DESCRIPTION



### AET110 2 CREDITS 5 PERIODS

### Private Pilot Flight

Flight course in preparation for the Federal Aviation Administration (FAA) Private Pilot Certificate practical examination. Includes preflight preparation and planning, ground operations, airport operations, departures, navigation, basic instrument flight, night flight, slow flight, ground reference maneuvers, emergency operations, and arrivals. Approximately 50 hours airplane flight experience at student's expense required. Requires passing check ride similar to the FAA Private Pilot check ride. Prerequisites: None. Corequisites: AET107.

## Aet115 3 CREDITS 3 PERIODS Aviation Meteorology

Meteorology for professional pilots. Includes atmosphere, air mass circulation, cloud type identification, weather hazards, and high altitude, Arctic, and tropical weather systems. Basic forecasting, use of Direct User Access Terminal (DUAT) systems and reading and interpreting weather charts. Prerequisites: None.

## AET203 2 CREDITS 2 PERIODS Basic Airplane Systems

Initial instrument and commercial pilot ground course in preparation for the Federal Aviation Administration (FAA) Commercial Pilot Certificate and Instrument rating written examinations. Includes night flight, flight instrument systems and operation, and basic engine, airplane, and altitude systems. Prerequisites: Permission of instructor. Prerequisites or Corequisites: AET115. Corequisites: AET207 and AET210.

### AET205 4 CREDITS 4 PERIODS

### Aircraft Structures, Systems, and Maintenance

Survey of airframe structures, systems, and maintenance regulations for pilots. Includes aircraft and airfoil design and construction, and electrical, instrumentation, and automatic flight control systems. Maintenance privileges and limitations, and forms and records. Prerequisites: Private Pilot Certificate or permission of instructor.

## AET207 2 CREDITS 2 PERIODS Attitude Instruments and Navigation

Continuing instrument and commercial pilot ground course in preparation for the Federal Aviation Administration (FAA) Commercial Pilot Certificate and Instrument rating written examinations. Includes flight physiology, theory of instrument flight, radio navigation, flight and navigation aids,

and instrument charts and approach plates. Prerequisites: Permission of instructor. Prerequisites or Corequisites: AET115. Corequisites: AET203 and AET210.

### AET210 2 CREDITS 5 PERIODS

### Commercial Pilot Flight I

Initial flight course in preparation for the Federal Aviation Administration (FAA) Commercial Pilot Certificate with Instrument rating practical examination. Emphasis on night and instrument operations. Student must fly approximately 60 hours at own expense. Requires passing an operational phase check. Prerequisites: Permission of instructor. Prerequisites or Corequisites: AET115. Corequisites: AET203 and AET207.

### AET213 2 CREDITS 2 PERIODS

### **Aerodynamics and Performance**

Continuing instrument and commercial pilot ground course in preparation for the Federal Aviation Administration (FAA) Commercial Pilot Certificate and Instrument rating written examinations. Includes aerodynamics, airport and airplane operation, stability and control, commercial maneuvers, and flight computer. Prerequisites: AET210. Corequisites: AET217 and AET220.

## AET215 4 CREDITS 4 PERIODS Aircraft Powerplants

Survey of engines and engine systems for pilots. Includes theory and analysis of reciprocating and turbine aircraft engines. Lubrication, ignition, fuel control, cooling, exhaust, and propellers. Prerequisites: AET205 or permission of instructor.

### AET217 2 CREDITS 2 PERIODS

#### Instrument Procedures

Final instrument and commercial pilot ground course in preparation for the Federal Aviation Administration (FAA) Commercial Pilot Certificate and Instrument rating written examinations. Includes Federal Aviation Regulations, instrument approach procedures, and instrument enroute considerations. Requires passing written exams similar to the FAA Commercial Pilot and Instrument rating written exams. Prerequisites: AET210. Corequisites: AET213 and AET220.

### AET220 2 CREDITS 5 PERIODS

### Commercial Pilot Flight II

Advanced flight course in preparation for the Federal Aviation Administration (FAA) Commercial Pilot with Instrument rating practical examinations.

205

Emphasis on commercial and high performance operations. Student must fly approximately 60 hours at own expense, including high performance operations. Requires passing commercial pilot and instrument rating check rides similar to the FAA check rides. Prerequisites: AET210. Corequisites: AET213 and AET217.

## Aet225 4 CREDITS 4 PERIODS Advanced Aircraft Systems

Advanced aircraft systems for pilots. Pressurization, cabin atmosphere, ice control, rain control, fire detection and extinguishing, hydraulic, landing gear, anti-skid systems, and weight and balance for transport category airplanes. Prerequisites: AET215 or permission of instructor.

# AET227 4 CREDITS 4 PERIODS Certified Flight Instructor: Airplane, Single Engine Land Ground School

Ground school in preparation for the Federal Aviation Administration (FAA) Certified Flight Instructor and Fundamentals of Instruction written examinations. Includes fundamentals of instruction, aerodynamics, airplane performance, systems, operations, weight and balance, weather, federal regulations, navigation, maneuvers, pilot physiology, ethics, and aeronautical decision making. Requires passing written exams similar to the FAA Certified Flight Instructor: Airplane, and Fundamentals of Instruction written exams. Prerequisites: AET240 or FAA Commercial Pilot Certificate with instrument rating. Corequisite: AET230.

# Certified Flight Instructor: Airplane, Single Engine Land

Flight course in preparation for the Federal Aviation Administration (FAA) Certified Flight Instructor: Airplane practical examination. Emphasis on demonstration and analysis of flight maneuvers. Includes preflight, ground operations, airport operations, takeoffs, climbs, flight fundamentals, stalls, spins, slow flight, basic instrument operations, performance maneuvers, ground reference maneuvers, emergency operations, approaches, landings, and postflight procedures. Requires approximately 25 hours of flight that includes high performance operations at student's expense. Also requires passing check ride similar to the FAA Certified Flight Instructor check ride. Prerequisites: AET240 or FAA Commercial Pilot Certificate with instrument rating. Corequisite: AET227.

### AET237 2 CREDITS 2 PERIODS

### Multiengine Airplane Pilot Ground School

Aeronautical knowledge necessary to meet requirements for a multiengine airplane rating including orientation, aerodynamics, airplane systems, airplane performance, flight planning, and emergency procedures. Prerequisites: AET220 or FAA Commercial Pilot Certificate with instrument rating. Corequisites: AET240.

## AET240 .5 CREDIT 1.5 PERIODS Multiengine Airplane Pilot Flight

Flight course in preparation for the Federal Aviation Administration (FAA) Multiengine Airplane practical examination. Approximately 15 hours of flight experience at the student's expense and passing check ride similar to the FAA Multiengine check ride are required. Prerequisites: AET220 or FAA Commercial Pilot Certificate with instrument rating. Corequisites: AET237.

### AET253 3 CREDITS 3 PERIODS AVIONICS FOR PILOTS

Introduction to avionics for pilots or individuals constructing personal aircraft. Includes avionics history, theory, installation and antenna considerations, autopilots, and troubleshooting. Prerequisites: Private Pilot Certificate or permission of instructor.

### AET257 3 CREDITS 4 PERIODS Readings in Aviation

Critical inquiry of a particular aviation theme from a wide variety of sources. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. International data communication facilities and equipment made available for student use. Prerequisites: ENG102 or ENG111, and permission of instructor.

### AET259 2 CREDITS 2 PERIODS Human Factors in Aviation Flight Operations

Introduction to the relationship between person and machine, the need to optimize design for better person-machine interaction, and the psychological and physiological limitations of humans in complex aviation operating environments. Prerequisites: None.

#### **AET290** 3 CREDITS 3 PERIODS Flight Physiology

In-depth study of aeromedical factors for pilots. The causes, symptoms, prevention, and treatment of flight environment disorders, altitude effects, spatial disorientation, visual illusions, body heat imbalance, and psychological factors are included as they relate to pilot performance and survival. Two altitude chamber flights at the student's expense are required. Prerequisites: Current FAA medical certificate.

### **Aircraft Construction** Technologies (ACT)

ACT201 3 CREDITS 3 PERIODS

### Aircraft Maintenance Forms and Documents

Maintenance documentation typical of transport category aircraft including illustrated parts catalogs, troubleshooting guides, maintenance, structural repair, wiring, and standard practices manuals. Blueprint reading and maintenance forms. Prerequisites: (AMT124 or AMT124AA, AMT128 or AMT128AA, AMT220 or AMT220AA, and AMT224 or AMT224AA) or Federal Aviation Administration Airframe Mechanic License.

#### ACT205 3 CREDITS 5 PERIODS

### **Introduction to Aircraft Structural Repair** Technology

History and types of composite and sheet metal materials used in typical transport category aircraft structures. Safety practices, corrosion control, and fabrication of projects using modern aircraft structural materials. Prerequisite or corequisite: ACT201.

#### ACT213 **3 CREDITS** 5 PERIODS

### Transport Category Sheet Metal Repairs I

Use of materials common to transport category aircraft metallic structures, special fasteners, bends, shaping, routing, pressure vessel repairs, sealing, and flight control repairs. Prerequisites: ACT205.

#### ACT217 3 CREDITS **5 PERIODS** Transport Category Sheet Metal Repairs II

Metal shaping techniques, heat treatment, built up (step) repairs, exotic metals, and intermediate repairs including complex shapes in accordance with Structural Repair Manuals. Prerequisite: ACT213.

#### ACT223 3 CREDITS 5 PERIODS

### Composite Structural Repairs I

Basic composite materials, construction, and repair. Manufacturing methods and equipment. Assessment and repair of composite structures using vacuum bagging and other approved procedures. Prerequisite: ACT205.

#### ACT227 **3 CREDITS** 5 PERIODS

### Composite Structural Repairs II

Corrosion control, electrical bonding, materials substitutions, machining of composite components, mold fabrication. Hot bond repair of composite components including complex shapes and varied materials in accordance with the appropriate Structural Repair Manual. Prerequisite: ACT223.

#### **ACT240** 4 CREDITS 6 PERIODS

### Aircraft Structural Damage Evaluation/Repair

Practical application of intermediate repair skills on aircraft structures using appropriate documentation in a simulated repair station environment. Evaluation of damage, non-destructive testing, repair process planning, and cost estimating. Actual repairs accomplished to airworthy standards. Prerequisite: ACT217 or ACT227.

### Aircraft Maintenance Technology (AMT)

AMT124 **5 CREDITS** 9 PERIODS

### Aircraft Forms and Regulations, Weight and Balance, Drawings, and Ground Operations

Federal Aviation maintenance publications, forms and records. Overview of technician's privileges and limitations. Perform aircraft weight and balance, aircraft ground operations and fuel servicing techniques. Drawings, symbols and schematic diagrams. Prerequisites: ENG071, RDG091, MAT091 or MAT092, and permission of the Department or Division.

#### AMT124AA 5 CREDITS 9 PERIODS Aircraft Forms and Regulations, Weight and

Balance, Drawings, and Ground Operations: Part 65

Federal Aviation maintenance publications, forms and records. Overview of technician's privileges and limitations. Perform aircraft weight and balance, aircraft ground operations and fuel servicing techniques. Drawings, symbols and schematic diagrams.

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Prerequisites: ENG071, RDG091, MAT091 or MAT092, and permission of the Department or Division.

### AMT126 9 CREDITS 12 PERIODS

### **Fundamentals of Mathematics and Electricity**

Mathematical computation of fundamental electrical circuit parameters. Basic definitions, laws, and concepts. Schematic, wiring, and parts placement diagrams. Test and troubleshoot electrical and electronic components and circuits. Prerequisites: ENG071, RDG091, MAT091 or MAT092, and permission of the Department or Division.

# Fundamentals of Mathematics and Electricity: Part 65

Mathematical computation of fundamental electrical circuit parameters. Basic definitions, laws, and concepts. Schematic, wiring, and parts placement diagrams. Test and troubleshoot electrical and electronic components and circuits. Prerequisites: ENG071, RDG091, MAT091 or MAT092, and permission of the Department or Division.

### AMT128 5 CREDITS 9 PERIODS

# Fundamentals of Aviation Physics, Corrosion Control, Materials and Processes, Fluid Lines and Fittings

Basic concepts of motion, fluid dynamics, heat and sound, aerodynamics, aircraft structure, and theory of flight. Fluid lines and fittings, component identification, function, inspection, and installation. Cleaning and corrosion control, materials and processes, non-destructive testing, and precision measurement techniques. Prerequisites: ENG071, RDG091, MAT091 or MAT092, and permission of the Department or Division.

# Fundamentals of Aviation Physics, Corrosion Control, Materials and Processes, Fluid Lines

### and Fittings: Part 65

Basic concepts of motion, fluid dynamics, heat and sound, aerodynamics, aircraft structure, and theory of flight. Fluid lines and fittings, component identification, function, inspection, and installation. Cleaning and corrosion control, materials and processes, non-destructive testing, and precision measurement techniques. Prerequisites: ENG071, RDG091, MAT091 or MAT092, and permission of the Department or Division.

#### AMT220 3 CREDITS 6 PERIODS

### Fundamentals of Aircraft Wood Structures, Covering and Finishing, and Bonded Structures

Theories and techniques of aircraft wood structures. Inspection, test and repair of aircraft fabric and wood structures. Aircraft structural design and methods of working with selected materials. Characteristics of composites, inspections and repairs. Prerequisites: Admission to the Program.

### AMT220AA 3 CREDITS 6 PERIODS

### Fundamentals of Aircraft Wood Structures, Covering and Finishing, and Bonded Structures: Part 65

Theories and techniques of aircraft wood structures. Inspection, test and repair of aircraft fabric and wood structures. Aircraft structural design and methods of working with selected materials. Characteristics of composites, inspections and repairs. Prerequisites: Permission of Program Director.

### AMT222 4 CREDITS 6 PERIODS

## Atmosphere Control, Fire Detection, Ice and Rain Protection Systems

Operation and maintenance of aircraft auxiliary systems. Inspection, servicing, troubleshooting and repair of environmental control, ice and rain control, fire protection and warning systems. Prerequisites: Admission to the Program.

# Atmosphere Control, Fire Detection, Ice and Rain Protection Systems: Part 65

Operation and maintenance of aircraft auxiliary systems. Inspection, servicing, troubleshooting and repair of environmental control, ice and rain control, fire protection and warning systems. Prerequisites: Permission of Program Director.

### AMT224 5 CREDITS 11 PERIODS

### Aircraft Sheet Metal

Inspection, fabrication, and repair techniques of aircraft structural and nonstructural components. Sheet metal heat-treating techniques. Prerequisites: Admission to the program.

### AMT224AA 5 CREDITS 11 PERIODS

### Aircraft Sheet Metal: Part 65

Inspection, fabrication, and repair techniques of aircraft structural and nonstructural components. Sheet metal heat-treating techniques. Prerequisites: Permission of Program Director.



# AMT226 7 CREDITS 12 PERIODS Aircraft Landing Gear, Hydraulic, Pneumatic,

Fuel, Position and Warning Systems
Identification, inspection, repair, and troubleshooting techniques of aircraft landing gear, hydraulic, fuel, pneumatic, and position and warning system

components. Prerequisites: Admission to the program.

AMT226AA

12 PERIODS

# Aircraft Landing Gear, Hydraulic, Pneumatic, Fuel, Position and Warning Systems: Part 65

7 CREDITS

Identification, inspection, repair, and troubleshooting techniques of aircraft landing gear, hydraulic, fuel, pneumatic, and position and warning system components. Prerequisites: Permission of Program Director.

### AMT228 7 CREDITS 12 PERIODS

# Aircraft Electrical Systems, Instruments, Fuel Indicating, Communication and Navigation Systems

Proper operation, inspection, servicing and troubleshooting of DC and AC sources, systems, and components. Mechanical and electrical sensing and information display systems. Fuel indicator system inspections, repairs, and troubleshooting. Transmitter and receiver fundamentals. Avionics installation, inspection and testing. Prerequisites: Admission to the Program.

#### AMT228AA 7 CREDITS 12 PERIODS

# Aircraft Electrical Systems, Instruments, Fuel Indicating, Communication and Navigation Systems: Part 65

Proper operation, inspection, servicing and troubleshooting of DC and AC sources, systems, and components. Mechanical and electrical sensing and information display systems. Fuel indicator system inspections, repairs, and troubleshooting. Transmitter and receiver fundamentals. Avionics installation, inspection and testing. Prerequisites: Permission of Program Director.

## AMT230 6 CREDITS 11 PERIODS Airframe Assembly, Inspection and Welding

Aircraft assembly and rigging. Flight control balancing and rigging. Airframe inspection techniques, reporting procedures, and aircraft jacking. Welding techniques, theory, and materials identification. Prerequisites: Admission to the program.

# AMT230AA 6 CREDITS 11 PERIODS Airframe Assembly, Inspection and Welding: Part 65

Aircraft assembly and rigging. Flight control balancing and rigging. Airframe inspection techniques, reporting procedures, and aircraft jacking. Welding techniques, theory, and materials identification. Prerequisites: Permission of Program Director.

#### AMT263 5 CREDITS 9 PERIODS

### **Aircraft Turbine Engines**

Historical development and application of turbine engines. Theory of thrust and the design and environmental factors which influence thrust. Turbine engine troubleshooting, inspection, service, repair and overhaul. Operational characteristics and engine test techniques on the aircraft and in test cells. Prerequisites: Admission to the program.

### AMT263AA 5 CREDITS 9 PERIODS

### Aircraft Turbine Engines: Part 65

Historical development and application of turbine engines. Theory of thrust and the design and environmental factors which influence thrust. Turbine engine troubleshooting, inspection, service, repair and overhaul. Operational characteristics and engine test techniques on the aircraft and in test cells. Prerequisites: Permission of Program Director.

## AMT264 7 CREDITS 11 PERIODS Aircraft Reciprocating Engines

Historical development and application of reciprocating engines, theory, design, and operations.

Techniques used in troubleshooting, overhaul, inspection, and repair of opposed and radial engines. Prerequisites: Admission to the program.

### AMT264AA 7 CREDITS 11 PERIODS

### Aircraft Reciprocating Engines: Part 65

Historical development and application of reciprocating engines, theory, design, and operations.

Techniques used in troubleshooting, overhaul, inspection, and repair of opposed and radial engines. Prerequisites: Permission of Program Director.

# Engine Fuel Systems, Fuel Metering and Induction System

Inspection, servicing, troubleshooting, overhaul, and repair of aircraft fuel systems and components, fuel metering devices, injection systems, turbochargers, and superchargers. Induction system principles of operation and design. Prerequisites: Admission to the program.

### AMT266AA 6 CREDITS 9 PERIODS

## Engine Fuel Systems, Fuel Metering and Induction System: Part 65

Inspection, servicing, troubleshooting, overhaul, and repair of aircraft fuel systems and components, fuel metering devices, injection systems, turbochargers, and superchargers. Induction system principles of operation and design. Prerequisites: Permission of Program Director.

### AMT268 6 CREDITS 12 PERIODS

Engine Electrical, Ignition and Starter Systems Inspect, service, troubleshoot, overhaul, and repair of engine electrical, ignition, starter systems, and components. Prerequisites: Admission to the program.

### AMT268AA 6 CREDITS 12 PERIODS Engine Electrical, Ignition and Starter Systems: Part 65

Inspect, service, troubleshoot, overhaul, and repair of engine electrical, ignition, starter systems, and components. Prerequisites: Permission of Program Director.

#### AMT270 5 CREDITS 8 PERIODS

## Engine Instruments, Fire Protection and Lubrication, Cooling and Exhaust Systems

Operation, maintenance, servicing, inspection, repair, and troubleshooting of engine instruments, fire detection and extinguishing, engine lubrication, cooling, and exhaust systems. Prerequisites: Admission to the program.

# Engine Instruments, Fire Protection and Lubrication, Cooling and Exhaust Systems: Part 65

Operation, maintenance, servicing, inspection, repair, and troubleshooting of engine instruments, fire detection and extinguishing, engine lubrication, cooling, and exhaust systems. Prerequisites: Permission of Program Director.

### AMT272 4 CREDITS 8 PERIODS

### **Propeller Systems and Engine Inspections**

Historical development, operation, disassembly, inspection, repair, and maintenance of propellers. Reciprocating and turbine engine inspection and documentation. Prerequisites: Admission to the program.

### AMT272AA 4 CREDITS 8 PERIODS

### Propeller Systems and Engine Inspections: Part 65

Historical development, operation, disassembly, inspection, repair, and maintenance of propellers. Reciprocating and turbine engine inspection and documentation. Prerequisites: Permission of Program Director.

### Anthropology (ASB)

ASB102 3 CREDITS 3 PERIODS

## 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.

### ASB245 3 CREDITS 3 PERIODS

### Indians of the Southwest

Comparative study of the cultures, including the histories and present status, of Indians of the Southwest. Prerequisites: None.

### Art (ART)

### ART100 1 CREDIT 2 PERIODS

### **Introduction to Computer Graphic Art**

Conceptualization, visualization, and production of art using the computer. Prerequisites: None.

## ART111 3 CREDITS 6 PERIODS 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 6 PERIODS

### Two-Dimensional Design

Study of fundamental elements and principles of two-dimensional design. Prerequisites: None.

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### ART113 3 CREDITS 6 PERIODS 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.

### ART116 3 CREDITS 6 PERIODS

### Life Drawing I

Use of form, structure and anatomy of draped and undraped human figure to develop basic principles of sound draftsmanship. Prerequisites: None.

### ART117 3 CREDITS 6 PERIODS Life Drawing II

Further study of form, structure, and anatomy of the draped and undraped human figure with emphasis on composition. Prerequisites: ART116.

### ART131 3 CREDITS 6 PERIODS

### 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.

## ART132 3 CREDITS 6 PERIODS Photography II

Advanced camera and darkroom techniques. Aesthetic awareness with personal expression. Prerequisites: ART131 or permission of instructor.

### ART161 3 CREDITS 6 PERIODS Ceramics I

Introduction to ceramic materials and techniques of hand construction, decorating, glazing and throwing on potters' wheel. Prerequisites: None.

### ART162 3 CREDITS 6 PERIODS Ceramics II

Major emphasis on wheel throwing, glaze making and decorating techniques. Prerequisites: ART161.

### ART167 3 CREDITS 6 PERIODS Painting I

Exploration of technical and expressive possibilities of various painting media in easel painting. Prerequisites: ART111 and ART112 or permission of instructor.

### ART169 3 CREDITS 6 PERIODS

### Two-Dimensional Computer Design

Generation of electronic two-dimensional images and traditional methods of visual problem solving. Understanding of computer techniques and art presentation methods. Prerequisites or Corequisites: ART100 or permission of instructor.

### ART173 3 CREDITS 6 PERIODS

### Computer Art

Introduction to the multiple elements of paint software programs using the microcomputer. Basic foundation in the use of computer techniques including color paint programs for the production of computer images. Use of electronic input and output devices. Prerequisites: ART 100, or permission of instructor.

## ART177 3 CREDITS 6 PERIODS Computer-Photographic Imaging

Introduction to the multiple elements of microcomputer-photographic imaging. Basic foundation in the use of the photographic manipulation of images using software programs. Special attention to aesthetic foundations underlying photographic composition. Prerequisites or Corequisites: ART100 or permission of instructor.

### ART190 3 CREDITS 6 PERIODS

### Art of Web Site Design

Print vocabulary, relationships, and typographic style for HTML and World Wide Web publication. Discussion of color, proportion, and design emphasis. Producing Web sites using HyperText Markup Language (HTML), digital text, and graphics to produce artistic form and content for the Web. Prerequisites: ART180AB or ART180AC or ART180AE or permission of instructor.

### ART255AB 1 CREDIT 1 PERIOD The Portfolio

Choosing the right pieces to include, presenting art work, developing the portfolio. Prerequisites: ART255AA or permission of instructor.

### ART270 3 CREDITS 6 PERIODS Intermediate Computer Photographic Imaging

Intermediate microcomputer-based photographic imaging techniques. Refinement of aesthetic awareness and personal expression. Prerequisites: ART177 or (ART177AA and ART177AB).

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### ART274 3 CREDITS 6 PERIODS

### Advanced Computer Photographic Imaging

Advanced microcomputer-based photographic imaging techniques. Advanced manipulation techniques of photographic images. Continued development of aesthetic awareness and personal expression. Prerequisites: ART270.

#### ART289 3 CREDITS 6 PERIODS

### **Computer Illustration**

Introduction to the multiple elements of commercial illustration using the microcomputer. Basic foundation in the use of computer techniques including color paint and draw programs for the production of commercial illustrations for publications and printed matter. Use of input and output devices.

Prerequisites or Corequisites: ART100 or permission of instructor.

### ART290 3 CREDITS 6 PERIODS

### Studio Art

Studio course for art majors allowing continuation in a subject field. Prerequisites: All 100 and 200 courses in subject matter area, or permission of instructor.

### **Art Humanities (ARH)**

ARH100 3 CREDITS 3 PERIODS

### Introduction to Art

Understanding and enjoyment of art through study of painting, sculpture, architecture design, photography, and decorative arts. Emphasis on contemporary topics and cultural diversity in the arts. Prerequisites: None.

### ARH101 3 CREDITS 3 PERIODS Prehistoric through Gothic Art

History of art from prehistoric through medieval period. Prerequisites: None.

### ARH102 3 CREDITS 3 PERIODS

### Renaissance Through Contemporary Art

History of art from around the world from the Renaissance through contemporary period. Prerequisites: None.

### ARH203 3 CREDITS 3 PERIODS

### Art of Ancient Egypt

The art and culture of ancient Egypt from prehistoric through the Greco-Roman period. Prerequisites: None.

### Astronomy (AST)

AST111 3 CREDITS 3 PERIODS

### Introduction to Astronomy I

Introduction to astronomy for the non-science major. History of astronomy, properties of light, instruments, the solar system and nearby stars. Prerequisites: MAT092 or equivalent.

### AST112 3 CREDITS 3 PERIODS

### Introduction to Astronomy II

Introduction to astronomy for the non-science major. Structure and evolution of stars; star clusters; galaxies; cosmology. Prerequisites: MAT092 or equivalent.

### AST113 1 CREDIT 3 PERIODS

### Astronomy I Laboratory

Astronomical observations and exercises to supplement AST111. Prerequisites or Corequisites: AST111.

### AST114 1 CREDIT 3 PERIODS

### Astronomy II Laboratory

Astronomical observations and exercises to supplement AST112. Prerequisites or Corequisites: AST112.

# Automated Manufacturing Systems (AMS)

AMS101 2.5 CREDITS 2.5 PERIODS

### Introduction to Automated Manufacturing

An introduction to automated manufacturing and the role of the manufacturing technician. Includes general manufacturing techniques, industry standards, and statistical process control. Prerequisites: None.

### AMS110 3 CREDITS 6 PERIODS

### Programming Automated Equipment

Automated equipment uses, characteristics, geometric movement, and performance measures. Programming, troubleshooting, operating, and maintaining an automated (robotic) equipment system. Prerequisites: None.

#### **AMS120** 3 CREDITS 6 PERIODS

### Fluid Power and Programmable Logic Controllers (PLC)

Fundamentals of fluid power and fluid power system components with an emphasis on pneumatic systems. Basic programmable logic controller (PLC) programming and operation. Prerequisites: MAT090, or MAT091, or MAT092, or equivalent, or satisfactory score on District Placement exam.

#### AMS130 3 CREDITS 3.75 PERIODS

### Vacuum Technologies

Vacuum systems technologies used in industry. Includes vacuum system fundamentals, pumps, gauges, and system assembly. Prerequisites: AMS120

#### AMS150 4 CREDITS 6 PERIODS

### Digital Systems and Microprocessors

Fundamentals of digital systems and microprocessors with Boolean Algebra and combinational logic. Microprocessor programming and applications. Prerequisites: ELE113.

#### AMS160 3.5 CREDITS 6.5 PERIODS

### **Linear Circuits**

Linear circuit fundamentals. Includes diodes, bipolar transistors, field effect transistors, and an operational amplifier. Prerequisites: ELE113.

#### 3 CREDITS AMS210 7 PERIODS

#### Electro-Mechanical Devices

Electro-mechanical devices including physics of simple machines. Gear and sensor assembly and troubleshooting. Designing, constructing, and troubleshooting power transmission and stepper motor drives. Prerequisites: ELE114.

#### 6.75 PERIODS **AMS220** 3 CREDITS

### **Automated Manufacturing Processes**

Automated manufacturing including inventory management, computer aided processes, work-cell operation, advanced programmable logic controller (PLC) programming, and statistical methods and calculations. Prerequisites: AMS110 and AMS120.

### Avionics Technology (AVT)

AVT110 6 CREDITS **8 PERIODS** 

### Introduction to Avionics

Procedures and instructions for using aircraft manuals. Identify, inspect, repair, and service wires, wire harnesses, and various electrical connectors. Prerequisites: Permission of Department or Division.

#### **AVT115** 7 CREDITS 8 PERIODS

### **Communication and Navigation Basic Circuits**

Theory of operation and circuitry of all transmitter and receiver circuitry including interfacing and troubleshooting of amplitude and frequency modulation transmitters and receivers, antennas, high and very high frequency communication and interphone systems. Prerequisites: Permission of Department or Division.

#### AVT120 6 CREDITS 8 PERIODS

### Avionics: Airframe Systems Interfacing I

Theory of operation, interfacing, and troubleshooting of systems and components related to aircraft lighting, fire protection and extinguishing, electrical power systems and instrument and warning systems for all types of aircraft. Theory of operation, interfacing, and adjustment of landing gear systems, hydraulic systems, and doors. Prerequisites: Permission of Department or Division.

#### 5 CREDITS 7 PERIODS **AVT128**

#### Advanced Electrical and Electronics

Advanced electronics theory and application of diodes, bipolar transistors, field effect transistors, AC power control devices, transistor amplifiers, sine wave oscillators, square wave generators, bistable circuits, operation amplifiers, and power supply and voltage regulators. Prerequisites: AMT126, or AMT126AA, or permission of the Department or Division.

#### **AVT155** 6 CREDITS 8 PERIODS

### Avionics: Airframe and Engine Systems Interfacing II

Theory of operation, interfacing, and troubleshooting of pneumatic, air-conditioning, ice and rain protection, engine, and fuel systems. Prerequisites: AVT120 or permission of Department or Division.

AVT225 6 CREDITS 6 PERIODS

### Navigation Systems: Basic

Theory of operation, interfacing, and troubleshooting of instrument, flight environment data, air data pressure, altitude and direction, clocks, stall warning, cockpit voice recorder, static discharge, and audio and video monitoring systems. Prerequisites: Permission of Department or Division.

# AVT250 6 CREDITS 8 PERIODS Navigation Systems: Advanced

Theory of operation, interfacing, and troubleshooting of automatic directional finder, very high frequency range, instrument landing, microwave landing, air traffic control, traffic alert, and collision avoidance, distance measurement equipment, radio altimeter, altitude alert, and ground proximity warning systems. Prerequisites: AVT225 or permission of Department or Division.

# AVT260 6 CREDITS 8 PERIODS Navigation Systems: Long Range

Theory of operation, interfacing, and troubleshooting of long range navigational, weather radar, and airborne data integrated, weight and balance computations, and flight control systems. Prerequisites: AVT250 or permission of Department or Division.

## Biology (BIO)

BIO080 1-4 CREDITS 3-6 PERIODS

# Fundamentals of Life Science (Modules AA-AO)

Consists of modules corresponding to biology courses offered in Maricopa Community College District. If student performance inadequate for currently enrolled biology course, enrollment may be changed to appropriate BIO080 module. Change only allowed if prerequisite met for currently enrolled course. Prerequisites: None.

## Biology Concepts 4 CREDITS 6 PERIODS

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 6 PERIODS

### **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 3 PERIODS

### **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 3 PERIODS

### Laboratory for Natural History of the Southwest

Introduction to basic field and laboratory techniques used in the study of natural history. Specific field problems presented dealing with plant and animal analysis and ecological interrelationships. Weekend field trips required at students' expense. Prerequisites or Corequisites: BIO109 or permission of instructor.

# 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 3 PERIODS

### 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.

## 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 6 PERIODS 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.

### BIO201 4 CREDITS 6 PERIODS

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 6 PERIODS Human Anatomy and Physiology II

Continuation of structure and function of the human body. Topics include endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems; and fluid and electrolyte balance. Prerequisites: BIO201 or permission of instructor.

### BIO205 4 CREDITS 6 PERIODS

### Microbiology

Study of microorganisms and their relationship to health, ecology, and related fields. Prerequisites: BIO156, or BIO181, or equivalent, or permission of instructor.

# Business-Personal Computers (BPC)

BPC101AA 1 CREDIT 2 PERIODS Introduction to Microcomputers I: IBM

Microcomputer software applications for the IBM personal computer, including electronic spreadsheet and word processing, keyboarding review, and a desktop environment. Prerequisites: None.

# BPC101BA 1 CREDIT 1 PERIOD Introduction to Microcomputers II: IBM

Microcomputer software applications for the IBM personal computer, including database management, computer graphics, electronic spreadsheet and word processing, and operating system commands. Prerequisites: BPC101AA.

### BPC101CA 1 CREDIT 1 PERIOD

### Introduction to Microcomputers III: IBM

Individualized advanced applications of software selected to solve specific problems on the IBM. Prerequisites: BPC101BA or permission of instructor.

### BPC102AD .5 CREDIT .5 PERIOD

### Using Windows: Level I

Basic commands and methods associated with the Windows operating system. Prerequisites: None.

## BPC102BD .5 CREDIT .5 PERIOD

### Using Windows: Level II

Advanced commands and methods of the Windows operating system. Prerequisites: BPC102AD or permission of instructor.

### BPC106AH .5 CREDIT .5 PERIOD

### MS Outlook: Level I

Messaging and word processing functions of a Microsoft Outlook electronic work state. Pre/Corequisites: None.

## BPC106BH .5 CREDIT .5 PERIOD Microsoft Outlook: Level II

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.

### BPC110 3 CREDITS 4 PERIODS

### **Computer Usage and Applications**

Introduction to business and personal computer operations and usage. Software applications for analyzing and solving business problems including word processing, spreadsheet, database, and presentation graphics. Prerequisites: None.

## BPC111AA 1 CREDIT 1.7 PERIODS Computer Keyboarding I

Mastery of essential microcomputer keyboarding skills. Emphasis on touch typing of alphabetic and numeric keys and symbols. Prerequisites: None.

# BPC111AB 1 CREDIT 1.7 PERIODS 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.

### BPC114AE 1 CREDIT 2 PERIODS

### **Excel Level I**

Computer spreadsheet skills for solving business problems using Excel, including calculations, forecasting, and projections. Prerequisites: None.

### BPC114BE 1 CREDIT 2 PERIODS

### Excel Level II

Additional Excel spreadsheet techniques, including macro programming, database searching, extraction, and linking to obtain prescribed reports and graphs. Prerequisites: BPC/CIS114AE or permission of instructor.

## BPC114DE 3 CREDITS 5 PERIODS

### **Excel Spreadsheet**

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.

### BPC115AA 1 CREDIT 2 PERIODS

### Personal Finance Software: Quicken - Level I

Introduction to the basic features of Quicken, a computerized personal finances software program. Prerequisites: None.

### BPC115BA 1 CREDIT 1 PERIOD

### Personal Finance Software: Quicken - Level II

Advanced business applications using Quicken 99 Home & Business to automate a computerized accounting system for a small business. Prerequisites: BPC115AA.

### BPC117AM 1 CREDIT 2 PERIODS

## Database Management: Microsoft Access - Level I

Introduction to the basic elements of a current version of the Microsoft Access database management program, for casual and beginning users. Prerequisites: None.

### BPC117BM 1 CREDIT 2 PERIODS

### Database Management: Microsoft Access -Level II

Exploration of additional components of the Microsoft Access database management program. Prerequisites: BPC117AM or CIS117AM or permission of instructor.

### BPC118AB 1 CREDIT 2 PERIODS

### PowerPoint: Level I

Use of PowerPoint software to produce professionalquality presentation visuals. Prerequisites: None.

## BPC121AB 1 CREDIT 2 PERIODS MS-DOS Operating System

Use of the MS-DOS operating system: basic concepts, internal and external commands, subdirectories, and editor. Prerequisites: None.

### BPC121AE 1 CREDIT 2 PERIODS

### Windows Operating System: Level I

Specific topics include booting and shutting down the computer, navigating the desktop, start button features, taskbar status, and receiving on-line help support. Exploring and managing folders and files, running programs, and learning about Wordpad and Paint application programs. Prerequisites: None.

## BPC130DK 1 CREDIT 2 PERIODS Beginning Word

Using Word for Windows to create, edit, and print documents. Prerequisites: Ability to keyboard a minimum of 20 wpm or permission of instructor.

## BPC135DK 2 CREDITS 2 PERIODS Word:Level I

Using Word word processing software to create and name files, edit text, format, and print a variety of documents. Prerequisites: The ability to use a keyboard at a minimum of 24 wpm or permission of instructor.

### BPC170 3 CREDITS 4 PERIODS

### Computer Maintenance I: A+ Prep

Technical aspects of the microcomputer, including system setup (hardware and software) and basic troubleshooting. Emphasis on basic troubleshooting, use of tools, hardware components and hardware/software interfacing. Prerequisites: CIS105 and BPC121AB or permission of instructor.

**BPC171** 1 CREDIT 2 PERIODS

### Recycling Used Computer Technology

Use of hardware maintenance knowledge and skills to refurbish used computers. May be repeated for a total of three (3) credits. Prerequisites or Corequisites: BPC170 or permission of instructor.

### BPC235DK 2 CREDITS 2 PERIODS Word:Level II

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.

### BPC270 **3 CREDITS** 4 PERIODS

### Microcomputer Maintenance II

Advanced technical aspects of maintaining and servicing microcomputers. Emphasis placed on installation, periodic maintenance, diagnosis, and/or problem resolution of power system, motherboard, memory, storage devices, and network interface cards. Extensive use of software diagnostic and utility tools. Prerequisites: BPC170 with grade of C or better, or permission of instructor.

## Chemistry (CHM)

**3 CREDITS** 3 PERIODS

## Fundamental Chemistry

Elements of general chemistry for all students. Serves to prepare the student for CHM151 or CHM230. Prerequisites: Grade of "C" or better in CHM090 or MAT091, or MAT092 or MAT102 or satisfactory score on math placement exam. Course Notes: Course content designed to meet the needs of students in such areas as agriculture, home economics, nursing, and physical education among others.

### CHM130LL 1 CREDIT 3 PERIODS

## Fundamental Chemistry Laboratory

Laboratory experience in support of CHM130. Prerequisites or Corequisites: CHM130.

### **3 CREDITS CHM138** 3 PERIODS

### Chemistry for Allied Health

Elements of fundamental and organic chemistry. Includes the general chemical behavior of inorganic matter and the structure of organic and biochemical systems. This course is designed for specific allied health programs at MCCD. It may not be applicable to other allied health programs or transferable..

Prerequisites: Grade of "C" or better in CHM090; or one year of high school chemistry with a grade of "C" or better; or MAT092 or MAT102 or satisfactory score on placement exam.

#### 1 CREDIT CHM138LL 3 PERIODS

### Chemistry for Allied Health Lab

Laboratory experience in support of CHM138, Chemistry for Allied Health. Prerequisites: None. Corequisites: CHM138.

#### CHM151 3 CREDITS 3 PERIODS

### General Chemistry I

A detailed study of the principles of chemistry. Designed for science majors and students in pre-professional curricula. Completion of CHM151LL required to meet the Natural Science requirement. Prerequisites: (CHM130 and CHM130LL) or one year high school chemistry with a grade of "C" or better, and completion of Intermediate Algebra or equivalent.

#### CHM151LL 1 CREDIT 3 PERIODS

### General Chemistry I Laboratory

Laboratory experience in support of CHM151. Prerequisites: CHM130LL or equivalent. Prerequisites or Corequisites: CHM151.

### CHM152 3 CREDITS 3 PERIODS

### General Chemistry II

A study of the chemical properties of the major groups of elements, equilibrium theory, thermodynamics, electrochemistry, and other selected topics. Completion of CHM152LL required to meet the Natural Science requirement. Prerequisites: CHM151 and CHM151LL.

### 1 CREDIT CHM152LL 3 PERIODS

## General Chemistry II Laboratory

Laboratory experience in support of CHM152. Prerequisites: CHM151LL or equivalent. Prerequisites or Corequisites: CHM152.

### CHM154 3 CREDITS 3 PERIODS

### General Chemistry II with Qual

A study of the chemical properties of the major groups of elements, equilibrium theory, thermodynamics, kinetics, electrochemistry, and other selected topics. Includes qualitative analysis. Prepares students for all sophomore chemistry courses. Completion of CHM154LL required to meet the Natural Science requirement. Prerequisites: CHM151 and CHM151LL.

### CHM154LL 2 CREDITS 6 PERIODS General Chemistry II with Qualitative Laboratory

Laboratory experience in support of CHM154. Includes qualitative analysis. Prerequisites: CHM151LL or equivalent. Prerequisites or Corequisites: CHM154.

### CHM230 3 CREDITS 3 PERIODS **Fundamental Organic Chemistry**

Chemistry of representative groups of organic compounds, emphasizing biological applications. Prerequisites: (CHM130 and CHM130LL), or (CHM151 and CHM151LL). Course Notes: Course content designed to meet the needs of students in agriculture, home economics, nursing, pre physician assistant, and physical education among others.

CHM230LL 1 CREDIT 3 PERIODS

Fundamental Organic Chemistry Laboratory Laboratory experience in support of CHM230. Prerequisites: CHM130LL, or CHM151LL, or

equivalent. Prerequisites or Corequisites: CHM230.

### 3 CREDITS CHM235 3 PERIODS General Organic Chemistry I

Rigorous introduction to chemistry of carbon-containing compounds. Reaction mechanisms and recent methods of synthesis emphasized. Prerequisites: CHM152 and CHM152LL, or CHM154 and CHM154LL.

CHM235LL 1 CREDIT 4 PERIODS

## General Organic Chemistry I Laboratory

Laboratory experience in support of CHM235. Prerequisites: CHM152LL, or CHM154LL, or equivalent. Prerequisites or Corequisites: CHM235.

**3 CREDITS** CHM236 3 PERIODS

## General Organic Chemistry IIA

Study of chemistry of carbon-containing compounds continued. Structural determination and additional reaction mechanisms and modern methods of synthesis emphasized. Prerequisites: CHM235 and CHM235LL.

CHM236LL 1 CREDIT 4 PERIODS

## General Organic Chemistry IIA Laboratory

Laboratory experience in support of CHM236. Prerequisites: CHM235LL or equivalent. Prerequisites or Corequisites: CHM236.

## Child/Family Studies (CFS)

CFS114 1 CREDIT 1 PERIOD

### Working with the Hyperactive Child

Causes of hyperactivity in children; focus on the family's role in identification, treatment and school/community support. Prerequisites: None.

CFS176 3 CREDITS 3 PERIODS

### 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.

### CFS185 1 CREDIT 1 PERIOD

## Developing IEPs for Children with Disabilities

Designed for classroom teachers, special needs teachers, and parents who will be contributing their unique perspectives as members of a team in the writing of an Individualized Education Plan (IEP). Includes legal requirements; perspectives, expertise, and responsibilities of members of the team; and communication techniques to facilitate the process. Prerequisites: CFS/ECH176 and ECH279.

**CFS257 3 CREDITS** 3 PERIODS

## Working with Families with Diverse Needs

A collaborative approach to working with families with diverse needs. Examines the effect of specific challenges on the family system. Presents techniques for those working with families to facilitate stress management, conflict resolution, and utilization of community and personal resources to aid in the strengthening of the family unit. Prerequisites: None.

**CFS280** 3 CREDITS 3 PERIODS

### Children with Special Needs in Early **Childhood Education**

Strategies for working with young children who have handicaps and disabilities in the preschool setting. Types of disabilities, assessment techniques, programming skills and activity design, types of programs, and working with families. Prerequisites: CFS176.

CFS290AA 1 CREDIT 1 PERIOD

# Child Abuse: Identification and Reporting in Child Care Settings

Identification, recording, and reporting by child care providers of sexual abuse, physical abuse, or neglect of young children. Prerequisites: None.

## Cisco Networking Technology (CNT)

CNT140 4 CREDITS 6 PERIODS

### **Cisco Networking Fundamentals**

Emphasis on the OSI model and industry standards. Includes network topologies, IP addressing, subnet masks, basic network design and cable installation. Preparation for Cisco certification examination. Prerequisites: None.

### CNT150 3 CREDITS 6 PERIODS

### Cisco Networking Router Technologies

Knowledge of skills to install, configure, customize, maintain and troubleshoot Cisco routers and components. Preparation for Cisco certification examination. Prerequisites: CNT140 or permission of instructor.

### CNT160 3 CREDITS 4 PERIODS

### Cisco Advanced Routing and Switching

Development of knowledge and skills to configure advanced routing protocols, Local Areas Networks (LANs), and LAN switching. Design and management of advanced networks. Preparation for Cisco certification examination. Prerequisites: CNT 150 or permission of instructor. Corequisites: CNT170.

## CISCO Project Based Learning 4 PERIODS

Development of knowledge and skills to design and configure advanced wide area network (WAN) projects using Cisco IOS command set. Preparation for Cisco certification examination. Prerequisites: CNT150 or permission of instructor. Corequisites: CNT160.

## Communication (COM)

COM095 3 CREDITS 3 PERIODS

### **Basic Oral Communication Skills**

Listening, speaking, and related academic performance skills, including note taking. Emphasis on activities designed to improve and synthesize these skills. Prerequisites: None.

## COM100 3 CREDITS 3 PERIODS Introduction to Human Communication

Theory and practice of communication skills in public, small group, and interpersonal settings. Includes study of the speech communication process. Prerequisites: None.

## COM110 3 CREDITS 3 PERIODS Interpersonal Communication

Theory and practice of communication skills which affect day-to-day interactions with other persons. Topics may include using verbal and nonverbal symbols, interactive listening, resolving interpersonal conflict, developing and maintaining personal and professional relationships. Prerequisites: None.

## COM120 3 CREDITS 3 PERIODS Pronunciation of American Speech

Analysis of American speech production problems due to accents produced by another language, correction of misarticulated American speech sounds, critical listening to sound production, understanding American English speech patterns, practicing American idioms and expressions, and preparing and delivering group and individual speech presentations. Prerequisites: None.

## COM207 3 CREDITS 3 PERIODS Introduction to Communication Inquiry

Bases of inquiry into human communication, including introduction to notions of theory, philosophy, problems, and approaches to the study of communication. Required for communication major status at ASU. Prerequisites: ENG101 or ENG107 or equivalent, and COM100 or equivalent or permission of instructor.

# COM225 3 CREDITS 3 PERIODS 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 3 PERIODS 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.

### Performance of Literature

The study, analysis, and preparation for performance of prose, poetry, and dramatic literature. Preparation of material for public audiences. Prerequisites: ENG101 or ENG107 or equivalent.

COM250 3 CRE

3 CREDITS 3 PERIODS

### **Introduction to Organizational Communication**

Introduction to the study of communication in organizations including identification of variables, roles and patterns influencing communication in organizations. Prerequisites: COM207.

COM259 3 CREDITS 3 PERIODS

### Communication in Business and Professions

Interpersonal, group, and public communication in business and professional organizations. Emphasis on oral communication. Prerequisites: ENG101 or ENG107 or equivalent.

COM263 3 CREDITS 3 PERIODS

### 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.

COM275 3 CREDITS 3 PERIODS

### **Nonverbal Communication**

Effects of space, time, body movements, environment, objects, and voice quality on human communication and interaction. Prerequisites: None.

## **Computer-Aided Drafting (CAD)**

CAD103AA 1 CREDIT 1 PERIOD

### Basic Print Reading for Manufacturing

Basic print reading knowledge and skills necessary for workers in the manufacturing field. Visualization, interpretation and analysis of common manufacturing drawings, and other design documentation. Prerequisites: None

# Computer Information Systems (CIS)

CIS100

.5 CREDIT .5 PERIOD

### 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 information. Prerequisites: None.

CIS102

1 CREDIT 1 PERIOD

# Interpersonal and Customer Service Skills for IT Professionals

Examines behaviors necessary to develop and support an effective client service organization. Focuses on methods of increasing the effectiveness of help-desk professionals when responding to a range of customer conditions. Prerequisites: None.

**CIS105** 

3 CREDITS 4 PERIODS

### 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.

CIS114AE

1 CREDIT 2 PERIODS

### Excel:Level I

Computer spreadsheet skills for solving business problems using Excel, including calculations, forecasting, and projections. Prerequisites: None.

CIS114DE

3 CREDITS 5 PERIODS

### **Excel Spreadsheet**

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.

CIS117AM

1 CREDIT 2 PERIODS

## Database Management: Microsoft Access - Level I

Introduction to the basic elements of a current version of the Microsoft Access database management program, for casual and beginning users. Prerequisites: None.



# cis119DO 3 CREDITS 4 PERIODS Introduction to Oracle: SQL and PL/SQL

Use of Oracle tools and methodologies to fulfill real-world business information requirements. Hands-on exercises for designing and creating database structures to store, retrieve, update, and display data in a relational database. Creating PL/SQL blocks of application code that can be shared by multiple forms, reports, and data management applications. Prerequisites: CIS105 or permission of instructor.

### CIS119DP 3 CREDITS 4 PERIODS

### Oracle: Database Administration

Develops a conceptual understanding of the Oracle database architecture and reinforces learning with structured hands-on practices. Designed to give the Oracle database administrator (DBA) a firm foundation in basic administrative tasks. Prerequisites: CIS119DO or CIS126AA or CIS126DA or permission of instructor.

# CIS121AB 1 CREDIT 2 PERIODS MS-DOS Operating System

The use of the MS-DOS operating system: basic concepts, internal and external commands, subdirectories, and editor. Prerequisites: None.

### CIS121AE 1 CREDIT 2 PERIODS

### Windows Operating System: Level I

Specific topics include booting and shutting down the computer, navigating the desktop, start button features, taskbar status, and receiving on-line help support. Exploring and managing folders and files, running programs, and learning about Wordpad and Paint application programs. Prerequisites: None.

## CIS126AA 1 CREDIT 2 PERIODS UNIX Operating System: Level I

Use of the UNIX operating system: system components, built-in commands, files and directories, editors, and UNIX Shell and command lines. Prerequisites: None.

## CIS126BA 1 CREDIT 1 PERIOD UNIX Operating System: Level II

Installation, configuration, and maintenance of the UNIX operating system. Prerequisites: CIS126AA.

## CIS126CA 1 CREDIT 1 PERIOD UNIX Operating System: Level III

Create login scripts and batch files, and maintain system communications. Prerequisites: CIS126BA.

### CIS126DA 3 CREDITS 4 PERIODS

### **UNIX Operating System**

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.

## CIS131AA 1 CREDIT 1 PERIOD Doing Business on the Internet

Overview of different ways businesses are taking advantage of and using the Internet. Includes how companies are selling items and services over the Internet; techniques used to expand customer contacts; marketing strategies; availability of government and financial information; future potential and disadvantages; using the Internet for customer service; establishing a World Wide Web site. Some previous computer experience preferred. Prerequisites: None.

### CIS133AA 1 CREDIT 2 PERIODS

### The Internet/World Wide Web:Level I

Overview of the Internet and its resources. Handson experience with various Internet communication tools. Prerequisites: None.

### CIS133BA 1 CREDIT 1 PERIOD

### The Internet/World Wide Web:Level II

Exploration of additional Internet resources. Handson experience with a variety of resource discovery and information retrieval tools. Prerequisites: BPC/CIS133AA.

### CIS150 3 CREDITS 4 PERIODS

### **Programming Fundamentals**

Structured program design and logic tools. Use of computer problems to demonstrate and teach concepts using appropriate programming language. Prerequisites: CIS105, or permission of instructor.

### CIS159 3 CREDITS 4 PERIODS

### Visual Basic Programming I

Use of the Visual Basic programming language to solve problems using suitable examples from business or other disciplines. Prerequisites: CIS105, or permission of instructor.

### CIS162AB 3 CREDITS 4 PERIODS

### C++: Level I

Introduction to C++ programming including general concepts, program design, development, data types, operators, expressions, flow control, functions,

classes, input and output operations, debugging, structured programming, and object-oriented programming. Prerequisites: CIS105, or permission of instructor.

# 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: CIS105.

## CIS164AB 3 CREDITS 3 PERIODS

### Oracle: PL/SQL Programming

Writing PL/SQL procedures, functions, and packages. Creating and managing PL/SQL program units and database triggers in Oracle development environments. Managing dependencies and manipulating large objects. Prerequisites: CIS119DO, or permission of the instructor.

### CIS164AG 2 CREDITS 3 PERIODS

### Oracle: Data Modeling and Relational Database Design

Top-down, systematic approach to developing a relational database and defining requirements as entities, attributes, and relationships. Developing an entity-relationship (ER) diagram that accurately reflects the business. Mapping the ER diagram to an initial database design. Prerequisites: CIS105 or permission of instructor.

### CIS166 3 CREDITS 4 PERIODS

### 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: CIS133CA or CIS133DA or permission of instructor.

### CIS190 3 CREDITS 4 PERIODS

### 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 4 PERIODS

### 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.

### CIS225AB 3 CREDITS 4 PERIODS

### **Object-Oriented Analysis and Design**

Methodologies and notations for fundamental object-oriented analysis and design including use cases, objects, classes, stereotypes, and relationships. Object-oriented iterative process for system development. A continuous application development exercise for applying the analysis and design concepts. Prerequisites: Any program language, or permission of instructor.

# CIS233AA 1 CREDIT 2 PERIODS Web Design and Publishing I

Design and creation of pages on the Internet's World Wide Web using the hypertext markup language (HTML). Hands-on experience authoring HTML and preparing sophisticated web documents. Prerequisites: BPC/CIS133BA or permission of instructor.

## CIS233BA 1 CREDIT 1 PERIOD

## Web Design and Publishing II

Hands-on experience designing Web presentations using advanced markup languages, programming languages, scripts and multimedia. Prerequisites: CIS233AA or permission of instructor.

### CIS233BB 1 CREDIT 2 PERIODS

### Internet Web Publishing: FrontPage Level II

Advanced hypertext markup language (HTML) using FrontPage. Covers tables, forms, image maps, gateway scripts, and multimedia. Hands-on experience of designed advanced Web presentations. Prerequisites: CIS233AB or permission of instructor.



CIS233DA 3 CREDITS 4 PERIODS

### Web Design and Publishing

Design and create on the World Wide Web with a variety of markup languages, programming languages, scripts, and multimedia. Hands-on experience authoring and preparing sophisticated web documents. Exploration of best practices/issues for web design and publishing and careers in web development and e-commerce. Prerequisites:

BPC/CIS133CA or BPC/CIS133DA or permission of instructor.

**CIS235** 3 CREDITS 4 PERIODS

### 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: CIS133CA, or CIS133DA, or permission of instructor.

### CIS238 3 CREDITS 4 PERIODS Advanced UNIX System Administration

System administration tasks using one or more versions of UNIX. Topics include: installing the operating system, configuring peripherals, security, monitoring system performance, networking, and troubleshooting. Prerequisites: CIS126DA, or permission of instructor.

CIS259 **3 CREDITS** 4 PERIODS

### 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.

### CIS263AA 3 CREDITS 4 PERIODS 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 the instructor.

### 3 CREDITS CIS270 4 PERIODS **Essentials of Network and Information** Security

Threats to security of information systems; responsibilities and basic tools for information security, including communication security, infrastructure security, organizational security and basic cryptography. Introduction to the language of network security and hardware, software and firmware components of an information security system for local, metropolitan, enterprise, and wide area networks. Helps prepare participants for the Comptia Security+ exam and the GIAC Security Essentials Certificate (GSEC). Prerequisites: CNT150, or (MST150 or MST150 any module), or permission of instructor.

CIS271DA 3 CREDITS 4 PERIODS

### Security Certified Professional (SCP)-Hardening the Infrastructure

Network security-related fundamentals, issues, and skills for systems administrators to implement network security. Includes network security basics, advanced Transmission Control Protocol/Internet Protocol (TCP/IP), IP packet structure and analysis, routing and access control lists, securing Windows computers, securing Linux computers, Internet security, and hacker attack techniques. Prerequisites: (CNT150 and MST 150) or permission of instruc-

CIS272DA 3 CREDITS 4 PERIODS

### Security Certified Professional (SCP)-Network Defense and Countermeasures

Architecture of network defense and skills for system administrators to implement network defense. Includes network defense fundamentals, designing and configuring firewalls, configuring Virtual Private Networks (VPNs), designing and configuring an Intrusion Detection System (IDS), analyzing intrusion signatures, performing risk analysis, and creating a security policy. Prerequisites: CIS271DA or permission of instructor.

CIS290AA 1 CREDIT 6 PERIODS CIS290AB 2 CREDITS 12 PERIODS CIS290AC **3 CREDITS** 18 PERIODS

### Computer Information Systems Internship

Work experience in business or industry. Prerequisites: Permission of instructor.

## Computer Science (CSC)

**3 CREDITS** 3 PERIODS

### **Introduction to Computer Science for** Non-Computer Majors

Concepts of problem solving, structured programming in a C++, fundamental algorithms and techniques, and computer system concepts. Social and ethical responsibilities. Intended for majors other than Computer Science. Prerequisites: MAT120 or MAT121 or MAT122.

## CSC110AA 3 CREDITS 4 PERIODS

## Introduction to Computer Science for Majors

Concepts of problem solving, structured and objectoriented programming in Java, fundamental algorithms and techniques and computer system concepts. Social and ethical responsibilities. Intended for Computer Science and Computer Systems Engineering Majors. Prerequisites: MAT120 or MAT121 or MAT122.

## csc120 4 CREDITS 6 PERIODS Digital Design Fundamentals

Number systems, conversion methods, binary and complement arithmetic, Boolean switching algebra and circuit minimization techniques. Analysis and design of combinational logic, flip-flops, simple counters, registers, ROMs, PLDs, synchronous and asynchronous sequential circuits, and state reduction techniques. Building physical circuits. Prerequisites: CSC100, or CSC110 or CSC181, or ELE181, or NET181, or equivalent, or permission of instructor.

## Applied Problem Solving with Visual BASIC

Introduction to systematic definition of problems, solution formulation, and testing. Visual BASIC programming language applied to problems in mathematics, science, and business. Prerequisites: None.

# Applied Problem Solving with Visual BASIC

Introduction to systematic definition of problems, solution formulation, and testing. Visual BASIC programming language applied to problems in mathematics, science, and business. Prerequisites: None.

## CSC200AA 3 CREDITS 4 PERIODS

## Principles of Computer Science (Java)

Introduction to computer science. Issues and concepts throughout the field, including software development, data organization, machine architecture, algorithmic machines, and ethics in computing. Programming in Java. Prerequisites: CSC110 or (CSC100 or equivalent) and permission of instructor.

### CSC225 4 CREDITS 5 PERIODS

# Assembly Language Programming on Motorola Microprocessors

Assembly language programming including input/output programming and exception/interrupt handling. Register-level computer organization, I/O interfaces, assemblers, and linkers. Macintosh-based assignments. Prerequisites: [(CSC100 or CSC110

or CSC200) and CSC/EEE120] or permission of instructor.

# Counseling & Personal Development (CPD)

CPD102AA 2 CREDITS 2 PERIODS

### Assertiveness Training

Designed to help students, differentiate assertive, non-assertive and aggressive behavior, overcome blocks to acting assertively, establish boundaries, and develop effective verbal and nonverbal assertive behavior. Group discussion, role playing, and videotape feedback are used to enable students to express feelings, beliefs, and opinions in a direct appropriate manner. Prerequisites: None.

## CPD102AB 2 CREDITS 2 PERIODS Career Exploration

Designed to assist students making career choices. Focuses on self-assessment in terms of educational and career opportunities and reasonable possibilities in the world of work. Includes assessment for personal/career interests, values, needs, attitudes, skills, and other potential, and exploration of occupational information to establish career and educational goals. Prerequisites: None.

## CPD102AD 2 CREDITS 2 PERIODS

## **Eliminating Self-Defeating Behavior**

Designed to help students change behaviors that work against their potential, i.e., inferior feelings, shyness, nervousness, stage fright, under achievement etc. Focus on identifying undesirable thoughts, emotions and behaviors, for the purpose of developing alternative, and more desirable thoughts, emotions and behaviors. Prerequisites: None.

### CPD102AF 2 CREDITS 2 PERIODS

### **Human Sexuality**

Enables students to view their own sexuality as a normal aspect of personal development. Examination of masculine and feminine differences and/or conflicts in social roles, emotions, and physical development. Prerequisites: None.

### CPD102AH 2 CREDITS 2 PERIODS

### Stress Management

Reviews the sources of stress, the physiological effects and the psychological impact of stress on the individual. Provides strategies to reduce stress.

Prerequisites: None.



## CPD102AS 2 CREDITS 2 PERIODS Conflict Resolution

Developing new skills for dealing effectively with everyday conflict and improving quality of one's own life. Opportunity to discuss issues and seek cooperative resolutions. Prerequisites: None.

## CPD103BA 2 CREDITS 2 PERIODS Women in Transition

Designed to assist and support women who are experiencing life transitions. Emphasis on assessing self-potential, increasing self-confidence, managing life change, and exploring education/career/life options in terms of the realities of roles for women today. Prerequisites: None.

## CPD103BH 2 CREDITS 2 PERIODS Male-Female Communication

Designed to provide students with a better understanding of male-female characteristics and how that along with a renewed emphasis on basic communication skills will improve communication between the sexes. Prerequisites: None.

# CPD104 3 CREDITS 3 PERIODS Career and Personal Development

An overview of the process of career/life planning through self-awareness and understanding. Focus on specific skill development such as dealing with change, decision making, goal setting and understanding lifestyles. Provides opportunity to evaluate interests, skills and values. Emphasis on the development of a comprehensive career search process which includes current occupational information, specific tools for researching the job market and acquiring employment. Prerequisites: None.

# CPD150 3 CREDITS 3 PERIODS Strategies for College Success

Focus on increasing student success through college orientation and personal growth, study skills development, and educational and career planning. Prerequisites: None.

# COLLEGE Orientation & Personal Growth

Emphasis on increasing student success through college orientation, identification of learning style and the use of time management, goal-setting, and interpersonal communication strategies. Prerequisites: None.

### CPD150AB 1 CREDIT 1 PERIOD

### Study Skills Development

Emphasis on increasing student success through the use of study strategies including materials organization, note-taking, reading, test-taking, memory, and critical and creative thinking. Prerequisites: None.

## CPD150AC 1 CREDIT 1 PERIOD Educational and Career Planning

Emphasis on increasing student success through educational and career planning. Prerequisites: None.

## CPD160 3 CREDITS 3 PERIODS Introduction to Multiculturalism

Examination of the multiple cultures and subcultures within the contemporary United States. Personal exploration of awareness and appreciation of multiculturalism. Activities for experiencing diverse cultural perspectives. Skills for recognizing, analyzing, and mediating cultural and psychological factors impacting conflict and accord between diverse cultures. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog. Prerequisites: None.

## Crime and Intelligence Analysis (CIA)

Course Notes for all Crime and Intelligence Analysis courses: For students to receive Az POST (Arizona Peace Officer Standards and Training) continuing education credits upon completion of this course, the student must be a sworn law enforcement officer, and the course must be taught by an Az POST General Instructor or specialized civilian instructor who has completed the Az POST General Instructor training.

# Introduction to Crime and Intelligence Analysis I

Basic crime analysis and intelligence analysis methodologies and functions in the law enforcement environment. Intelligence analysis includes types of intelligence, the intelligence process, intelligence cycle, and analytical charting. Crime analysis includes types of crime analysis, administration of crime analysis, data collection and data integrity, research methodology, statistics, spatial analysis, and tactical analysis. Information presentations and employment overview. Prerequisites: None.

CIA220 3 CREDITS 3 PERIODS

# Link Analysis, Visual Investigative Analysis (VIA), and Time Event Charting (TEC)

Use of link analysis, visual investigative analysis (VIA), and time event charting (TEC) as analytical tools in a criminal justice environment. Includes analysis techniques, chart development, and an overview of commonly used software applications. Prerequisites: CIA210 or permission of instructor.

### CIA230 3 CREDITS 3 PERIODS

### **Telephone Toll and Flow Analysis**

Use of telephone toll analysis and flow charting as analytical tools in a criminal justice environment. Includes analysis techniques, chart development, and an overview of commonly used software applications. Prerequisites: CIA220 or permission of instructor.

## CIA240 3 CREDITS 3 PERIODS

### Crime Analysis

Basics of crime analysis and skills needed to predict future crime occurrences and create crime bulletins by using information to analyze crimes and crime trends. Includes crime analysis types and how they are used in the criminal justice environment, the crime analysis process, crime mapping, and computer software applications used in crime analysis. Prerequisites: Demonstrate knowledge and skills by passing the basic Microsoft Word word processing and basic Microsoft Excel spreadsheets sections within the Crime and Intelligence Analysis Course Prerequisite Assessment Test, or permission of instructor.

## CIA250 3 CREDITS 3.75 PERIODS Statistics for Crime Analysis

Introduction to the use of statistics in crime analysis. Includes an overview of inferential and descriptive statistics, computing the types of statistics that are most frequently utilized in crime analysis, and using software tools to conduct statistical analysis. Prerequisites: Demonstrate knowledge and skills by passing the Microsoft Excel spreadsheets and basic mathematics sections within the Crime and Intelligence Analysis Course Prerequisite Assessment Test, or permission of instructor.

# Analysis Using Geographic Information Systems (GIS)

Using Geographic Information Systems (GIS) ArcView software in the performance of intelligence analysis and the three phases of crime analysis: administrative, strategic, and tactical. Various types of maps, hot spot identification, crime patterns, crime reports, and spatial analysis are introduced. Extensions and other tools to support the three phases of crime analysis implementation. Prerequisites: Demonstrate knowledge and skills by passing the basic Microsoft Word word processing, basic Microsoft Excel spreadsheets, and basic Windows operating sections within the Crime and Intelligence Analysis Course Prerequisite Assessment Test, or permission of instructor. CIA250 suggested but not required.

## Critical Reading (CRE)

CRE101 3 CREDITS 3 PERIODS

### Critical and Evaluative Reading

Emphasis on applying critical inquiry skills to varied and challenging reading materials. Includes analysis, synthesis, and evaluation through written discourse. Prerequisites: ENG101 and (reading placement test score of 41 or higher (ASSET), or grade of "C" or better in RDG091, or permission of instructor.)

Also see Reading Education (RDG).

## Dance (DAN)

DAN131 1 CREDIT 3 PERIODS

### Ballet I

Introduction to the theory and practice of ballet at the beginning level. Development of movement quality and performance skills. May be repeated for a total of two (2) semester credit hours. Prerequisites: None. Corequisites: DAN138 for dance majors.

## DAN132 1 CREDIT 3 PERIODS Modern Dance I

Introduction to the theory and practice of modern dance at the beginning level. Development of movement quality and performance skills. May be repeated for a total of two (2) semester credit hours. Prerequisites: None. Corequisites: DAN138 for dance majors.

## DAN 133 1 CREDIT 3 PERIODS Modern Jazz Dance I

Introduction to the theory and practice of modern jazz dance at the beginning level. Development of movement quality and performance skills. May be repeated for a total of two (2) semester credit hours. Prerequisites: None. Corequisites: DAN138 for dance majors.

## DAN134 1 CREDIT 3 PERIODS Ballet II

Theory and practice of ballet at the advanced beginning level. Development of movement quality and performance skills. May be repeated for a total of two (2) semester credit hours. Prerequisites: DAN131 or instructor's permission. Corequisites: DAN138 for dance majors.

## DAN 135 1 CREDIT 3 PERIODS Modern Dance II

Theory and practice of modern dance at the advanced beginning level. Development of movement quality and performance skills. May be repeated for a total of two (2) semester credit hours. Prerequisites: DAN132 or instructor's permission. Corequisites: DAN138 for dance majors.

## DAN 136 1 CREDIT 3 PERIODS Modern Jazz Dance II

Theory and practice of modern jazz dance at the advanced beginning level. Development of movement quality and performance skills. May be repeated for a total of two (2) semester credit hours. Prerequisites: DAN133 or instructor's permission. Corequisites: DAN138 for dance majors.

## DAN138 1 CREDIT 1 PERIOD

### Dance Seminar I

Scientific and critical evaluation of work done in level I dance technique allowing the student to engage in in-depth discussion of the theory and practice of dance. Prerequisites: None. Corequisites: DAN131 or DAN132 or DAN133.

### DAN139 1 CREDIT 1 PERIOD

### **Dance Seminar II**

Scientific and critical evaluation of work done in level II dance technique allowing the student to engage in in-depth discussion of the theory and practice of dance. Prerequisites: None. Corequisites: DAN134, or DAN135, or DAN136.

## DAN140 1 CREDIT 3 PERIODS

### Tap Dance I

An introduction to the theory and practice of tap dance. May be repeated for a total of two (2) semester credit hours. Prerequisites: None.

## DAN141 1 CREDIT 3 PERIODS

### Dance Workshop

An intensive experience in the process of choreography, performance, and production elements. May be

repeated for a total of two (2) semester credit hours. Prerequisites: None.

## DAN150 1 CREDIT 3 PERIODS

### Dance Performance I

An introduction to the process and practice of dance performance. May be repeated for a total of two (2) semester credit hours. Prerequisites: None.

### DAN164 1 CREDIT 3 PERIODS

### **Improvisation**

An introduction to and an exploration of basic improvisational dance skills. Prerequisites: None.

### DAN210 3 CREDITS 3 PERIODS

### Dance Production I

Introduction to the elements of light, sound, and scenery as they relate to the art of dance.

Prerequisites: None.

### DAN211 3 CREDITS 3 PERIODS

### Dance Production II

Introduction to the theory and practice of makeup and costuming as they relate to dance. Prerequisites: None.

### DAN221 2 CREDITS 3 PERIODS

### Rhythmic Theory for Dance I

Exploration of the ways in which music, time, pitch, and energy work with the art of dance. Emphasis on reading and writing music notation and performing movement that correlates to the notation and vice versa. Prerequisites: None.

## DAN222 2 CREDITS 3 PERIODS

### Rhythmic Theory for Dance II

Study at the intermediate level of the ways in which music, time, pitch, and energy work with the art of dance with an emphasis on small group movement projects and their relationship to musical time and structure. Prerequisites: DAN221 or permission of instructor.

## DAN231 1 CREDIT 3 PERIODS Rallet III

Theory and practice of ballet at the beginning intermediate level. Development of movement quality and performance skills. May be repeated for a total of two (2) semester credit hours. Prerequisites: DAN134 or instructor's permission. Corequisites: DAN138 for dance majors.

### Modern Dance III

Theory and practice of modern dance at the beginning intermediate level. Development of movement quality and performance skills. May be repeated for a total of two (2) semester credit hours.

Prerequisites: DAN135 or instructor's permission. Corequisites: DAN138 for dance majors.

### DAN233 1 CREDIT 3 PERIODS

### Modern Jazz Dance III

Theory and practice of modern jazz dance at the beginning intermediate level. Development of movement quality and performance skills. May be repeated for a total of two (2) semester credit hours. Prerequisites: DAN136 or instructor's permission. Corequisites: DAN138 for dance majors.

## DAN234 1 CREDIT 3 PERIODS Ballet IV

Theory and practice of ballet at the intermediate level. Development of movement quality and performance skills. May be repeated for a total of two (2) semester credit hours. Prerequisites: DAN231 or instructor's permission. Corequisites: DAN138 for dance majors.

## DAN235 1 CREDIT 3 PERIODS Modern Dance IV

Theory and practice of modern dance at the intermediate level. Development of movement quality and performance skills. May be repeated for a total of two (2) semester credit hours. Prerequisites: DAN232 or instructor's permission. Corequisites: DAN138 for dance majors.

## DAN236 1 CREDIT 3 PERIODS Modern Jazz Dance IV

Theory and practice of modern jazz dance at the intermediate level. Development of movement quality and performance skills. May be repeated for a total of two (2) semester credit hours. Prerequisites: DAN233 or instructor's permission. Corequisites: DAN138 for dance majors.

## DAN238 1 CREDIT 1 PERIOD Dance Seminar III

Scientific and critical evaluation of work done in level III dance technique allowing the student to engage in in-depth discussion of the theory and practice of dance. Prerequisites: None. Corequisites: DAN231, or DAN232, or DAN233.

### DAN239 1 CREDIT 1 PERIOD

### **Dance Seminar IV**

Scientific and critical evaluation of work done in level IV dance technique allowing the student to engage in in-depth discussion of the theory and practice of dance. Prerequisites: None . Corequisites: DAN234, or DAN235, or DAN236.

### DAN264 3 CREDITS 3 PERIODS

### Choreography I

Study of basic dance choreography to include construction of a phrase, structure and form in a composition, and the basic elements of time, space and energy. Prerequisites: None.

### DAN265 3 CREDITS 3 PERIODS

### Choreography II

Exploration of the craft of choreography at the intermediate level. Experimentation with the various approaches to contemporary choreography as established by 20th century artists. Prerequisites: DAN264.

### DAN267 3 CREDITS 3 PERIODS

### Dance for Children

Theory and practice of teaching creative, folk, square and other dance forms for children. Includes field experience. Prerequisites: None.

## DAN280 2 CREDITS 6 PERIODS

### Dance Practicum

A culmination of coursework for the dance major requiring completion of an extended choreographic work from conception to performance. Also requires a final evaluative paper on the successes and challenges encountered throughout the project. Prerequisites: DAH100, DAH190, DAN150, DAN210, DAN211, DAN222, DAN231, DAN232, DAN233, DAN238, DAN265, and ENG101, or permission of instructor. Corequisites: DAN234, or DAN235, or DAN236, or permission of instructor.

## Dance Humanities (DAH)

DAH100 3 CREDITS 3 PERIODS

### Introduction to Dance

Overview of the field of dance focusing on origins, historical development, and cultural characteristics of the various styles of dance. Prerequisites: None.

**DAH190** 1 CREDIT 1 PERIOD

### **Discovering Dance Careers**

An overview of the professional opportunities available in dance and dance related fields. Prerequisites: None.

**DAH201 3 CREDITS** 3 PERIODS

### World Dance Perspectives

Exploration, analysis, synthesis, and evaluation of the role of dance in various cultures around the world. Prerequisites: ENG101, or ENG107, or equivalent. DAH100 strongly suggested but not required.

## **Economics (ECN)**

3 CREDITS 3 PERIODS

### Macroeconomic Principles

A descriptive analysis of the structure and functioning of the American economy. Emphasis on basic economic institutions and factors that determine national income and employment levels. Consideration given to the macroeconomic topics of national income, unemployment, inflation and monetary and fiscal policies. Prerequisites: None.

### ECN112 3 CREDITS 3 PERIODS

### Microeconomic Principles

Microeconomic analysis including the theory of consumer choice, price determination, resource allocation and income distribution. Includes non-competitive market structures such as monopoly and oligopoly; and the effects of government regulation. Selected issues examined. Prerequisites: None.

ECN212 3 CREDITS 3 PERIODS

### The World Economy

An analysis of the economic interdependence among nations, with emphasis on international trade and finance. Consideration given to the role and function of the multinational enterprise. Prerequisites: ECN112 or permission of instructor.

## **Education (EDU)**

EDU160 **3 CREDITS** 3 PERIODS

### Introduction to Developmental Disabilities

Basic overview of causation, prevention and habilitation of developmentally disabled individuals. Historical development and influences affecting remediation and treatment of developmentally delayed or disabled individuals. Prerequisites: None. EDU161 3 CREDITS 3 PERIODS

### Family Centered Services

Specific techniques and strategies available to families that enhance interactions with a special needs child. An overview of dynamics of family-child and parentchild relations. Legislation affecting children with special needs. Prerequisites: None.

EDU205 3 CREDITS 3 PERIODS

### Self-Assessment for Teaching

An exploratory course for students considering a teaching career. Examination of the field of education in the United Sates through field experiences, self-assessment activities and career information. Prerequisites: None.

EDU221 3 CREDITS 3 PERIODS

### 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. Prerequisites: None. Course Notes: Requires minimum of 30 hours of field experience in elementary or secondary classroom environment.

### 3 CREDITS 3 PERIODS **EDU222**

### 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. Course Notes: May include twenty (20) hours of field experience in an elementary or secondary classroom environment.

EDU230 3 CREDITS 3 PERIODS

### **Cultural Diversity in Education**

Examination of the relationship of cultural values to the formation of the child's self-concept and learning styles. Examination of the role of prejudice, stereotyping and cultural incompatibilities in education. Emphasis on preparing future teachers to offer an equal educational opportunity to children of all cultural groups. Prerequisites: None.

EDU250 3 CREDITS 3 PERIODS

### Overview of the Community Colleges

The history, functions, organization and current issues in the community/junior college with emphasis on the Arizona community colleges. Prerequisites: None.

EDU291 3 CREDITS 3 PERIODS

### Children's Literature

Review of folk and modern literature from a variety of world cultures, including application of literary criteria to folk and modern literature for children. Prerequisites: None.

## **Electric Utility Technology (EUT)**

EUT110 2 CREDITS 2 PERIODS

### Line Work I

Overview of line work industry including its history, technological developments and current practices. Examines industry equipment and tools. Focuses on safety practices and procedures used in utility line work industry. Prerequisites: None. Corequisites: EUT112 and EUT115.

EUT112 4 CREDITS 4 PERIODS

### Basic Electricity: AC and DC

Reviews the basic principles of Alternating Current (AC) and Direct Current (DC) electricity. Examines the structure and function of AC and DC circuits including series, parallel and series-parallel circuits. Includes an overview of electric systems and their applications in the utility industry . Prerequisites: None. Corequisites: EUT110 and EUT115.

## EUT115 6 CREDITS 18 PERIODS Field Training |

Practice in the basics of climbing and working on utility poles. Focuses on apparatus and equipment, using ropes and rigging equipment, installations of single and double cross arms, pole framing and setting, use of hand line and building single-phase lines. Prerequisites: None. Corequisites: EUT110, EUT112.

## EUT210 2 CREDITS 2 PERIODS

### Line Work II

Overview of line work industry including its history, technological developments and current practices. Examines industry equipment and tools. Focuses on hot sticking, tag out and lock out procedures with emphasis on industry safety practices and procedures. Prerequisites: EUT110.

### EUT211 4 CREDITS 4 PERIODS

### Electrical Apparatus

Overview of transformers and how they operate. Reviews single and three-phase theory. Focuses on construction and hook-up of single-phase, threephase, open Y and Delta transformer connections. Presents an overview of surge arresters, including applications and installation. Prerequisites: EUT110,EUT112 and EUT115. Corequisites: EUT215.

## EUT215 6 CREDITS 18 PERIODS

### Field Training II

Practice in the installation of electrical lines including transformers, reclosers, and service loops. Teaches rubber gloving, hot sticking techniques, and trenching of underground lines. Practice in the safe set-up and operation of equipment used in the line industry with a focus on the development of entry-level skills as drivers and operators. Includes procedures and practice in pole-top and bucket-truck rescues. Prerequisites: EUT110, EUT112, and EUT115. Corequisites: EUT211.

## **Electrical Engineering (EEE)**

EEE120 4 CREDITS 6 PERIODS

### **Digital Design Fundamentals**

Number systems, conversion methods, binary and complement arithmetic, Boolean switching algebra and circuit minimization techniques. Analysis and design of combinational logic, flip-flops, simple counters, registers, ROMs, PLDs, synchronous and asynchronous sequential circuits, and state reduction techniques. Building physical circuits. Prerequisites: CSC100, or CSC110 or CSC181, or ELE181, or NET181, or equivalent, or permission of instructor.

### EEE225 4 CREDITS 5 PERIODS

# Assembly Language Programming on Motorola Microprocessors

Assembly language programming including input/output programming and exception/interrupt handling. Register-level computer organization, I/O interfaces, assemblers, and linkers. Macintosh-based assignments. Prerequisites: [(CSC100 or CSC110 or CSC200) and CSC/EEE120] or permission of instructor.

## Electronic (ELE)

ELE113 4 CREDITS 6 PERIODS

### DC Circuit Analysis

Direct current (DC) electric circuits. Ohm's law, Kirchoff's laws, series, parallel and series-parallel circuits, network theorems, fundamentals of inductance and capacitance, and the transient behavior of circuits containing resistance and capacitance or resistance and inductance. Prerequisites: None. Corequisites: ELE105, or MAT122, or equivalent.

#### **ELE114** 4 CREDITS 6 PERIODS

### AC Circuit Analysis

Alternating Current (AC) circuits containing resistance and reactance. Detailed coverage of AC circuit parameters, including theorems, impedance matching, and resonance. Prerequisites: ELE113.

## Electronics Technology (ELT)

**ELT100** 3 CREDITS 3 PERIODS

### Survey of Electronics

An introduction to the field of electronics for those who may not intend to specialize in electronics. Essentially nonmathematical in nature; includes familiarization with a wide range of electronic components. Application to electronic systems, such as radio transmitters and receivers - both AM and FM, television transmitters and receivers, logic control, and computers. Application also to automotive electronics. Prerequisites: None.

## Engineering Science (ECE)

ECE102AA 2 CREDITS 4 PERIODS

### **Engineering Analysis Tools and Techniques**

Learning culture of engineering, engineering use of computer tools, and computer modeling as applied to engineering analysis and design. Prerequisites: Two years of high school algebra or MAT122 or departmental approval. Corequisites: MAT151 or MAT182 or MAT187.

### ECE103AB 2 CREDITS 4 PERIODS **Engineering Problem Solving and Design**

Fundamentals of the design process: engineering modeling, communication and problem-solving skills in a team environment. Emphasis on processbased improvements to the design process. Introduction to engineering as a profession. Prerequisites: ECE102, high school physics, or PHY111.

### ECE201 4 CREDITS 6 PERIODS Electrical Network I

Introduction to electrical networks. Component models, transient and steady state analysis. Prerequisites: ECE103. Prerequisites or Corequisites: MAT262, and (PHY115 and PHY116) or (PHY121 and PHY131).

#### 3 CREDITS 5 PERIODS ECE211

### Engineering Mechanics-Statics

Mathematical treatment of the basic physical principles of statics. Methods of vector algebra and vector calculus. Prerequisites: ECE103, (MAT230 or MAT231), and (PHY115 or PHY121). Corequisites: MAT241.

### ECE212 3 CREDITS **5 PERIODS**

### **Engineering Mechanics-Dynamics**

Kinematics and kinetics of particles, translating and rotating coordinate systems, rigid body kinematics, dynamics of systems of particles and rigid bodies, and energy and momentum principles. Prerequisites: ECE211 and MAT241.

## English (ENG)

3 CREDITS 3 PERIODS

## Basic Writing Skills

Emphasis on basic writing skills, including grammar and mechanics necessary to write clear and correct sentences in paragraphs. Prerequisites: Appropriate English placement test score, or ENG056. (NOTE: Change in requisite effective spring semester 2003: Prerequisites: Appropriate English placement test score, or ENG056 with a grade of "C" or better, or permission of department/division chair.)

### ENG071 3 CREDITS 3 PERIODS

### Fundamentals of Writing

Emphasis on the fundamentals of sentence, paragraph, and multi-paragraph structure. Prerequisites: Appropriate English placement test score, or ENG056, or ENG061, or permission of department chair. (NOTE: Change in requisite effective spring semester 2003: Prerequisites: Appropriate English placement test score, or ENG056 with a grade of "C" or better, or ENG061 with a grade of "C" or better, or permission of department/division chair.)

#### **ENG101** 3 CREDITS 3 PERIODS

### First-Year Composition

Standard English writing skills. Emphasis on expository composition. Prerequisites: Appropriate

English placement test score or a grade of "C" or better, in ENG071.

### ENG102 3 CREDITS 3 PERIODS

### First-Year Composition

Continued development of standard English writing skills. Introduction to research, note taking, organization, and documentation in the preparation and writing of a research paper. Prerequisites: ENG101 with a grade of "C" or better.

### ENG107 3 CREDITS 3 PERIODS

### First-Year Composition for ESL

Equivalent of ENG101 for students of English as a Second Language (ESL). Standard American English writing skills and emphasis on expository composition. Prerequisites: Appropriate ASSET/COMPASS placement test score, or a grade of "C" or better in ENG071 or ESL077. Course Note: Taking ESL040 and ESL042 may build skills tested by the ASSET/COMPASS placement.

### ENG108 3 CREDITS 3 PERIODS

### First-Year Composition for ESL

Equivalent of ENG102 for students of English as a second language (ESL). Continued development of standard English writing skills. Introduction to research, note taking, organization and documentation in the preparation and writing of a research paper. Not open to students who have completed ENG101. Prerequisites: Grade of "C," or better, in ENG107.

### ENG111 3 CREDITS 3 PERIODS

### Technical Writing

Analysis, planning, organization, research, and writing of technical reports and oral presentations for specific job-related audiences. Preparation of recommendation and feasibility reports, proposals, and applications of graphics in documents and oral presentations. Prerequisites: ENG101 with a grade of "C" or better, or permission of instructor.

### ENG210 3 CREDITS 3 PERIODS

### Creative Writing

Skills and techniques used in the production of marketable materials for contemporary publications that buy prose fiction, poetry, and expository articles. May be repeated for a total of six (6) credit hours with departmental approval. Prerequisites: ENG102 with a grade of "C", or better or permission of department.

### ENG216 3 CREDITS 3 PERIODS

### Persuasive Writing on Public Issues

Advanced course in techniques of analyzing and writing persuasive arguments addressing topics of current public interest. Papers research based. Prerequisites: ENG102.

### ENG217 3 CREDITS 3 PERIODS

### **Personal and Exploratory Writing**

Using writing to explore one's self and the world one lives in; emphasis on expository writing as a means of learning. Prerequisites: ENG101 and ENG102.

# English as a Second Language (ESL)

ESL001 6 CREDITS 6 PERIODS

### Basic English as a Second Language I

Listening, speaking, reading, and writing in English at a basic level. Focus on survival skills related to life in the United States. Introduction to elementary grammatical patterns. Prerequisites: None. Course Notes: Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog. May be repeated for a total of twelve (12) credits.

# ESLOO1 6 CRÉDITOS 6 PERÍODOS Inglés Como Segundo Idioma I

Énfasis en conversacíon, pronunciacíon, vocabulario, y gramática básica. Énfasis en las habilidades de supervivencia en los Estados Unidos. Calificación estándar disponible de acuerdo a los procedimientos descritos en el catálogo. Este curso puede ser repetido por un total correspondiente a 12 créditos.

### ESL010 3 CREDITS 3 PERIODS

### English as a Second Language I: Grammar

First level of English as a Second Language (ESL). Emphasis on basic conversational skills, pronunciation, vocabulary building and grammar. Some reading and sentence level writing. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL placement test score.

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## ESL103 3 CRÉDITOS 3 PERÍODOS

### Inglés Como Segundo Idioma I: Gramática Nivel 1

Corresponde al primer nivel de inglés como segundo idioma con énfasis en las habilidades básicas de pronunciación, enriquecimiento del vocabulario y construcción gramática. Incluye cierto nivel de lectura y escritura de oraciones. Calificación estándar disponible de acuerdo a los procedimientos descritos en el catálogo. Este curso puede repetirse por un máximo de 6 créditos. Requisitos previos: un examen de inglés.

# English as a Second Language I: Listening and Speaking

Emphasis on listening and speaking skills involving survival skills. Asking and answering questions related to work, shopping, and personal safety. May be repeated for a maximum of six credits. Prerequisites: Appropriate ESL placement test score or ESL002.

# Inglés Como Segundo Idioma I: Escuchar y Conversar

Este curso hace énfasis en las habilidades para escuchar y conversar en inglés incluyendo temas de la vida cotidiana , tales como preguntando y contestando preguntas relacionadas con el trabajo, cómo ir a compras y seguridad personal. Calificación estándar disponible de acuerdo a los procedimientos descritos en el catálogo. El curso puede ser repetido por un máximo de seis créditos. Requisitos previos: un examen de inglés o ESL002.

## English as a Second Language II: Grammar

Second level of English as a Second Language (ESL). Continued emphasis on conversational skills, pronunciation, vocabulary building and grammar with some reading and sentence level writing. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL placement test score, or a grade of "P" or "C" or better in ESL010, or (ESL010AA, ESL010AB, and ESL010AC).

## ESL020 3 CRÉDITOS 3 PERÍODOS

### Inglés Como Segundo Idioma II: Gramática Nivel 2

En este segundo nivel de inglés como segundo idioma, se continua con el énfasis en el desarrollo de las habilidades conversacionales, de pronunciación, vocabulario y gramática, involucrando algun nivel de lectura y escritura de oraciones. Calificación estándar de acuerdo a los procedimientos descritos en el catálogo. Este curso puede ser repetido por un máximo de 6 créditos. Requisitos previos: un examen de inglés o un grado de "P," "C," o mas elevado en ESL010, o (ESL010AA, AB, AC).

# English as a Second Language II - Listening and Speaking

Emphasis on listening and speaking skills involving social exchange. Asking and answering questions, using tag questions. Practice with question and answer patterns. Polite questions and responses. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL placement test score or ESL010 or ESL011 or ESL012 or RDG010.

# Inglés Como Segundo Idioma II - Escuchando y Conversando Nivel 2

Se realiza énfasis en el desarrollo de las habilidades de comprensión y conversación en las relaciones sociales (de comunidad). Puede ser repetido por un mámimo de 6 créditos. Calificación estándar de acuerdo a los procedimientos descritos en el catálogo. Requisitos previos: un examen de inglés o un grado de "P," "C," o mas elevado en ESL010, ESL011, ESL012, o RDG010.

### ESL030 3 CREDITS 3 PERIODS

### English as a Second Language III: Grammar

Third-level of English as a Second Language (ESL). Emphasis on sentence structure and paragraph building. Extensive grammar study and writing practice. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL placement test score, or a grade of "P" or "C" or better in ESL020, or (ESL020AA, ESL020AB, and ESL020AC).

# Inglés Como Segundo Idioma III: Gramática Nivel 3

En este curso de tercer nivel de inglés como segundo idioma, se da especial atención a la estructura de la oración y la escritura de párrafos. Comprende un extensivo estudio de la gramática y práctica de escritura. Puede ser repetido por un máximo de 6 créditos. Requisitos previos: un examen de inglés o un grado de "P," "C," o mas elevado en ESL020, o (ESL020AA, AB, AC).

# English as a Second Language III - Listening and Speaking

Emphasis on listening and speaking skills related primarily to the academic environment. Asking questions, working in small groups, using college resources, informal oral presentation. May be repeated for a maximum of six credits. Prerequisites: Appropriate ESL placement test score or ESL020 or ESL021 or ESL022 or RDG020.

### ESLO31 3 CRÉDITOS 3 PERÍODOS Inglés Como Segundo Idioma III - Escuchando y Conversando Nivel 3

El desarrollo de las habilidades de comprensión y conversación; principalmente dentro del ambito académico, constituye el mayor énfasis de este curso. Se adelantan prácticas de cómo hacer preguntas, trabajar en grupos pequeños, como usar los medios ofrecidos por la institución académica y se realiza una presentación oral informal. Puede ser repetido por un máximo de 6 créditos. Requisitos previos: un examen de inglés o un grado de "P," "C," o mas elevado en ESL020, ESL021, ESL022, o RDG020.

## ESL040 3 CREDITS 3 PERIODS

## English as a Second Language IV: Grammar Fourth-level of English as a Second Language (ESL).

Continued emphasis on sentence structure and paragraph building. Extensive grammar study and writing practice. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL placement test score, or a grade of "P" or "C" or better in ESL030, or (ESL030AA, ESL030AB, and ESL030AC).

## ESLO40 3 CRÉDITOS 3 PERÍODOS Inglés Como Segundo Idioma IV: Gramática

### Inglés Como Segundo Idioma IV: Gramática Nivel 4

Se continúa con el énfasis en la estructura de la oración y la escritura de párrafos, abarcando un extensivo estudio de la gramática y práctica de escritura. Puede ser repetido por un máximo de 6 créditos. Calificación estándar disponible e acuerdo a los procedimientos descritos en el catálogo. Requisitos previos: un examen de inglés o un grado de "P," "C," o mas elevado en ESL030, (ESL030AA,AB,AC).

# English as a Second Language IV: Listening and Speaking

Emphasis on academic skills. Listening to lectures, note taking, peer interaction, accessing and using media resources, formal oral presentations. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL placement test score or ESL030 or ESL031 or ESL032 or RDG030.

# Inglés Como Segundo Idioma IV: Escuchando y Conversando

Diseñado para preparar a aquellos estudiantes que deseen adelantar estudios superiores, este curso continua con el desarrollo de las habilidades académicas requeridas por quienes lo adelantan. Escuchar lecturas, tomar notas, revisar escritos de otros estudiantes. Puede ser repetido por un máximo de 6 créditos. Requisitos previos: un examen de inglés o un grado de "P," "C," o mas elevado en ESL030, ESL031, ESL032, o RDG030.

## ESL050 3 CREDITS 3 PERIODS Review Grammar For ESL

Review of grammatical concepts for ESL (English as a Second Language) students who have some previous experience in reading and writing English. Appropriate for students who want to practice sentence skills in English. May be repeated for a total of six (6) credits. Prerequisites: Appropriate ESL placement test score, or a grade of "C" or better in ESL010, or (ESL010AA, ESL010AB, and ESL010AC), or permission of instructor.

## Pronunciation Improvement for ESL Speakers

Individualized pronunciation practice and drills for English as a second language (ESL) speakers. May be repeated for a maximum of six (6) credits. Prerequisites: None.



## ESL054 3 CREDITS 3 PERIODS Introduction to the Culture of the United States

Reading and writing about American customs, traditions, major historical events, and celebrations. Appropriate for students enrolled in ENG010 or higher level ESL courses. May be repeated for a total of six (6) credits. Prerequisites: Appropriate ESL placement test score, or a grade of "C" or better in ESL010, or (ESL010AA, ESL010AB, and ESL010AC), or permission of instructor.

## **English Humanities (ENH)**

ENH110 3 CREDITS 3 PERIODS

### **Introduction to Literature**

Introduction to international literature through various forms of literary expression; e.g., poetry, drama, essay, biography, autobiography, short story, and novel. Provides a global overview of literature with special emphasis on diverse cultural contributions of women, African Americans, Asian Americans, Hispanic Americans, and Native Americans.. Prerequisites: None.

ENH201 3 CREDITS 3 PERIODS

### World Literature Through the Renaissance

Includes a selection of the world's literary masterpieces in their cultural background, beginning with ancient Oriental and Occidental writings and concluding with Renaissance writings. Prerequisites: None.

ENH202 3 CREDITS 3 PERIODS

### World Literature After the Renaissance

Includes a selection of the world's literary masterpieces from the Renaissance to modern times. Prerequisites: None.

ENH221 3 CREDITS 3 PERIODS

### Survey of English Literature Before 1800

Emphasizes the social and political backgrounds as well as the form and content of English literature from Anglo-Saxon times to the end of the eighteenth century. Prerequisites: None.

ENH222 3 CREDITS 3 PERIODS

### Survey of English Literature After 1800

Emphasizes the social and political backgrounds as well as the form and content of English literature in the nineteenth and twentieth centuries.

Prerequisites: None.

ENH241 3 CREDITS 3 PERIODS

### American Literature Before 1860

Includes literature written prior to 1860 in the United States. Prerequisites: None.

ENH242 3 CREDITS 3 PERIODS

### American Literature After 1860

Includes literature written after 1860 in the United States. Prerequisites: None.

ENH251 3 CREDITS 3 PERIODS

### Mythology

Deals with the myths and legends of civilizations with the greatest influence upon the development of the literature and culture of the English speaking people, and compares those myths with myths from other cultures. Prerequisites: None.

ENH254 3 CREDITS 3 PERIODS

### Literature and Film

Presents works of literature and their film versions and analyzes distinguishing techniques of each medium. Prerequisites: ENG101, or ENG107, or equivalent.

ENH255 3 CREDITS 3 PERIODS

### Contemporary U.S. Literature and Film

Strengths and weaknesses of literature and film. Challenges of adapting literature to film. Addressing racial, ethnic, gender, class and religious differences between cultures and mediums. Use of narrative in each medium and how it translates various cultural values and assumptions. Specific genres present in literature and film. Cultural metaphors and symbols used in literature and film. Prerequisites: ENG101.

ENH259 3 CREDITS 3 PERIODS

### **American Indian Literature**

Contemporary American Indian forms of literary expression. Selected oral traditions of American Indians. Trends and movements within American Indian literary history. Prerequisites: None.

ENH260 3 CREDITS 3 PERIODS

### Literature of the Southwest

Investigates major themes in Southwestern American literature including the Western myth, minority roles in the region's literature, control of nature versus primacy of nature, and growth. Both prose and poetry are examined with an emphasis on contemporary Southwestern writing. Prerequisites: None.

### ENH284 3 CREDITS 3 PERIODS

### 19th Century Women Writers

Investigates major themes in literature by women writing in the 19th century including the nature of women's lives in the family, in work situations, and in society. Poetry, prose, essays and drama are examined with an emphasis on common themes. Prerequisites: None.

# ENH285 3 CREDITS 3 PERIODS Contemporary Women Writers

Explores twentieth century literature (short stories, essays, plays, and poetry) written by women and about women. Focus on themes relevant to women's lives regardless of age, creed, or ethnic background. Prerequisites: None.

### ENH291 3 CREDITS 3 PERIODS

### Children's Literature

Review of folk and modern literature from a variety of world cultures, including application of literary criteria to folk and modern literature for children. Prerequisites: None.

## **Equine Science (EQS)**

EQS105 3 CREDITS 3 PERIODS

### **Principles of Equine Science**

Breeds, colors and markings; horse selection; basic confirmation; form to function; structures of the hoof; footfall sequences; vision, managed health program; nutrition principles and management practices. Prerequisites: None.

### EQS120 3 CREDITS 3 PERIODS

### Equine Anatomy and Physiology

Study of structure and function of the equine. Includes cell structure and anatomy and physiology of major systems with emphasis on skeletal, muscular, and digestive systems. Prerequisites: None.

### EQS145 3 CREDITS 6 PERIODS

### **Basic Horsemanship**

Rudimentary knowledge concerning horse handling safety, basic riding equipment, grooming techniques, saddling, bridling, mounting, dismounting, and basic control of the horse at the walk and trot. English or western equipment used. Emphasis on position of rider as it relates to basic control of the horse. Prerequisites: None.

### EQS150 4 CREDITS 4 PERIODS

### **Equine Management**

Hands-on practice sessions devoted to good horse-keeping skills. Includes assessment of vital signs, methods of restraint, intermuscular injections, oral medications, leg wraps, leg sweats and poultice applications, body clipping and fitting sheets and blankets. Prerequisites: (EQS105 and EQS145), or permission of department.

### EQS160 3 CREDITS 6 PERIODS

### English Horsemanship I

Basic ground work and safety procedures; control of the horse at the walk, trot, and canter; rider position and use of fundamental aids. Prerequisites: EQS145 or departmental approval.

### EQS165 3 CREDITS 6 PERIODS

### Western Horsemanship I

Basic ground work and safety procedures; control of the horse at the walk, jog, and lope; rider position and use of fundamental aids. Prerequisites: EQS145 or departmental approval.

### EQS215 3 CREDITS 3 PERIODS

### **Equine Nutrition**

Basic principles of equine nutrition and digestion. Proper selection, evaluation, and utilization of feeds. Emphasis on nutrient content of ration, nutritionally associated diseases, general health aspects, and feeding management. Prerequisites: EQS105 and EQS120, or department approval.

### EQS220 3 CREDITS 3 PERIODS

### **Equine Reproduction**

Reproductive anatomy and physiology; care and management of the breeding stallion; breeding procedures and artificial insemination. Care of pregnant mare; foaling procedures. Prerequisites: EQS105, EQS120, and EQS215 or department approval.

### EQS225 3 CREDITS 3 PERIODS

### Equine Health and Disease Management

Aspects of equine health and disease prevention. Emphasis on preventive maintenance. Preventive medicine and necessary managerial practices needed to keep the equine athlete, broodmare, or family horse in good health. Prerequisites: EQS105 and EQS120 or department approval.

## Fire Science Technology (FSC)

FSC134 3 CREDITS 4.6 PERIODS

### Fitness & 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.

## Food & Nutrition (FON)

FON100 3 CREDITS 3 PERIODS

### 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 predietetics or selected other preprofessional majors. May not be taken for credit if credit has been earned in FON100AA and/or FON100AC. Prerequisites: None.

# Certification in Food Service Safety and Sanitation

Preparation for and certification in a national food sanitation and safety program. Emphasis on food from purchasing, receiving, and storing to preparation, holding, and serving. Focuses on safe and sanitary food service facilities and equipment, employee habits and personal hygiene, and role of management in safety and sanitation. Includes time-temperature principles, foodborne illnesses, pest control, accident prevention, standards for cleaning and sanitizing, and regional regulations and standards. Prerequisites: None.

### FON125 1 CREDIT 1 PERIOD

### Introduction to the Profession of Dietetics

Introduction to the profession of dietetics, including history, current practice, and future trends. Emphasis on the integration of dietetics within health care systems and public policy. Highlights professional ethics, standards of practice, education requirements and areas of practice. Prerequisites: None

## FON140AS 1 CREDIT 1 PERIOD Nutrition for Senior Adults

Managing the nutritional needs of the senior adult; emphasis on solutions to routine dietary problems resulting from the aging process. Prerequisites: None.

# FON140BD 1 CREDIT 1 PERIOD Weight Control

Principles of and participation in weight management. Emphasis on low-fat eating, nutrition, exercise, and evaluation of weight management programs. Prerequisites: None.

### FON142AB 3 CREDITS 5 PERIODS

### **Applied Food Principles**

Exploration and applications of scientific principles involved in food preparation; experiences with basic cooking methods; emphasis on the rationale of cooking techniques. Prerequisites: None.

## FON207 3 CREDITS 3 PERIODS Nutrition Services Management

Principles, knowledge, and techniques required for effective nutrition services management. Includes nutrition service issues in relation to health care trends, leadership skills, management theories and styles, food service manager responsibilities, and laws which pertain to nutrition service operations. Prerequisites: MAT092 or equivalent, or satisfactory score on district placement exam.

### FON225 1 CREDIT 1 PERIOD

### Research Fundamentals for the Health Professional

Introduction to basic research methods and statistics as applied to the health sciences. Emphasis on the analysis and interpretation of health-related research. Prerequisites: MAT092 or equivalent, or satisfactory score on district placement exam.

### FON241 3 CREDITS 3 PERIODS

### **Principles of Human Nutrition**

Scientific principles of human nutrition. Emphasis on health promotion and concepts for conveying accurate nutrition information in a professional setting. Addresses therapeutic nutrition principles for treatment of common health conditions. Includes exploration of food sources of nutrients, basic metabolism of nutrients in the human body, relationship between diet and other lifestyle factors, use of supplements, current recommendations for food selection throughout the life cycle, and use of nutrition tools for planning food intake or assessment of nutritional status. Prerequisites or Corequisites: One year high school chemistry with grade of "C" or better, or CHM130 and CHM130LL, or BIO100, or BIO156, or BIO181, or approval of instructor.

## FON242 3 CREDITS 3 PERIODS Introduction to Planning Therapeutic Diets

Introduction to fundamental principles of medical nutrition therapy. Emphasis on development and analysis of diets that fit an individual's personal and therapeutic needs. Includes strategies to promote dietary adherence and the development of educational programs for a diverse adult population. Prerequisites: FON241.

### FON244 5 CREDITS 17 PERIODS

## Practicum I: Food Service Management

Practicum experience, integrated with classroom preparation and training, under the instruction and supervision of a registered dietitian. Application of principles, knowledge, and skills required for food service management including food service operations, quantity food production, procurement, organizing and management principles, facility design and equipment, financial management, food safety and sanitation, menu planning, and marketing. Prerequisites: FON104, FON125, FON142AB, FON207, and FON242.

### FON245 4 CREDITS 12 PERIODS

### Practicum II: Medical Nutrition Therapy

Practicum experience, integrated with classroom preparation and training, under the instruction and supervision of a registered dietitian. Application of principles, knowledge, and skills required for the delivery of medical nutrition therapy. Includes nutritional screening, assessment, monitoring, and evaluation for common and complex medical conditions, medical documentation, patient interviewing and counseling, and education in health promotion and disease prevention. Prerequisites: FON125,

FON242, HCE103 or equivalent, and MAT092 or equivalent, or satisfactory score on district placement exam.

### FON246 4 CREDITS 12 PERIODS

### **Practicum III: Community Nutrition**

Practicum experience, integrated with classroom preparation and training, under the instruction and supervision of a registered dietitian. Application of principles, knowledge, and skills required in the delivery of nutrition services in community-based agencies, outpatient health care settings, and social service agencies. Includes nutrition intervention and wellness promotion for individuals and groups across the lifespan; i.e., infants through geriatrics with a diversity of cultural, religious, and social backgrounds. Prerequisites: FON125 and FON242.

## French (FRE)

### FRE101 4 CREDITS 4 PERIODS

### **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 4 PERIODS

### **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 4 PERIODS

### 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 4 PERIODS

### Intermediate French II

Review of grammar, continued development of French language skills, and continued study of the French culture. Prerequisites: FRE201 with a grade of "C" or better or three years of high school French with an average of "C" or better.

## General Business (GBS)

GBS132 3 CREDITS 3 PERIODS

### Personal and Family Financial Security

Principles and practices of personal and family financial planning, includes savings, budgeting, credit, buying versus renting and general principles of consumerism. Prerequisites: None.

### GBS151 3 CREDITS 3 PERIODS

### Introduction to Business

Characteristics and activities of current local, national, and international business. An overview of economics, marketing, management and finance. Prerequisites: None.

### 3 CREDITS GBS205 3 PERIODS

### Legal, Ethical, and Regulatory Issues in **Business**

Legal theories, ethical issues and regulatory climate affecting business policies and decisions. Prerequisites: None.

#### 3 CREDITS **GBS220** 3 PERIODS

### Quantitative Methods in Business

Business applications of quantitative optimization methods in operations management decisions. Prerequisites: (Grade of "C" or better in MAT150, MAT151, or MAT152) or equivalent, or satisfactory score on district placement exam.

#### **GBS221** 3 CREDITS 3 PERIODS

### **Business Statistics**

Business applications of descriptive and inferential statistics, measurement of relationships, and statistical process management. Prerequisites: Grade of "C" or better in GBS220 or MAT172.

#### **GBS233** 3 CREDITS 3 PERIODS

### **Business Communication**

Internal and external business communications. including verbal and nonverbal techniques. Prerequisites: ENG101 or ENG107 with grade of "C" or better, or permission of department/division.

## Geology (GLG)

GLG101 3 CREDITS 3 PERIODS

### Introduction to Geology I - Physical Lecture

A study of the kind and arrangement of materials composing the earth's crust and the geological processes at work on and within the earth's surface. Prerequisites: None.

#### GLG102 3 CREDITS 3 PERIODS

### Introduction to Geology II - Historical Lecture

Outlines the origin and history of the earth with emphasis on North America-its dynamic, geographic, and climatic changes; animals and plants of the past; the evolution of life. Prerequisites: None.

#### GLG103 1 CREDIT 3 PERIODS

### Introduction to Geology I - Physical Lab

May accompany GLG101. Study of common rockforming minerals, rocks, and maps. Prerequisites: None.

### **GLG104** 1 CREDIT 3 PERIODS

### Introduction to Geology II - Historical Lab

May accompany GLG102. Study of geological structures and rocks, fossils, and geologic maps. May require field trips. Prerequisites: None.

#### 3 CREDITS **GLG110** 3 PERIODS

### Geologic Disasters and the Environment

Acquaints students with the use and importance of geological studies as they apply to the interactions between people and the earth. Includes geological processes and hazards such as floods, earthquakes, and landslides; use of fossil fuels; mining of raw materials. Prerequisites: None.

#### **GLG111** 1 CREDIT 3 PERIODS

## Geological Disasters and the Environment Lab

May accompany GLG110. Basic geological processes and concepts. Emphasis on geology-related environmental problems concerning Arizona. Case histories and field studies. May require field trips. Prerequisites: None.

## Golf Course Operations (GCO)

GCO138 1 CREDIT 2 PERIODS

## Clubfitting/Repair

Basic principles of golf club design. Includes personal fitting of golf clubs to customer needs as well as repair. Prerequisites: None.

## Health Care Education (HCE)

HCE103 2 CREDITS 2 PERIODS

### Basic Medical Terminology

Introduction to medical vocabulary with emphasis on accurate spelling and pronunciation of medical terms as they pertain to anatomy, physiology, diseases, and pharmacology. Prerequisites: None.

## Health Core Curriculum (HCC)

HCC130 3 CREDITS 3 PERIODS

### **Fundamentals in Health Care Delivery**

Overview of current health care professions including career and labor market information. Health care delivery systems, third party payers, and facility ownership. Health organization structure, patient rights and quality care. Health care and life values. Definition and importance of values, ethics, and essential behaviors in the workplace. Worker rights and responsibilities. Healthful living practices to include nutrition, stress management and exercise. Occupational Safety and Health Administration (OSHA) standard precautions and facility safety. Use of principles of body mechanics in daily living activities. Basic communication skills which facilitate 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.

HCC145AA 1 CREDIT 1 PERIOD

### Medical Terminology for Health Care Workers I

Introduction to medical terms used in health care. Body systems approach to selected terms related to structures, functions, diseases, procedures, and diagnostic tests. Building and analyzing terms using basic word parts. Selected medical abbreviations and symbols and term spelling. Prerequisites: None.

# Medical Terminology for Health Care Workers II

Additional medical terms used in health care. Body systems approach to more detailed terms related to structures, functions, diseases, procedures, and diagnostic tests. Building and analyzing terms using standard word parts. Common abbreviations and symbols and term spelling. Prerequisites: HCC145AA.

## Health Science (HES)

HES100 3 CREDITS 3 PERIODS

### Healthful Living

Health and wellness and their application to an optimal life style. Explores current topics of interest such as stress management, nutrition, fitness, and environmental health. Evaluates common risk factors associated with modern lifestyles. Prerequisites: None.

HES154 3 CREDITS 3 PERIODS

### First Aid/Cardiopulmonary Resuscitation

Cardiopulmonary Resuscitation and first aid for the adult, child and infant patients includes Automated External Defibrillator (AED), rescue breathing, obstructed airway, and other first aid procedures. Designed to train citizen responders in skills and procedures required during emergency situation. Prerequisites: None.

HES271 3 CREDITS 3 PERIODS

### Prevention and Treatment of Athletic Injuries

Prevention and care of athletic injuries, emphasizing use of modern training techniques and support materials. Utilization of preventive taping, strapping, bandaging, cardiopulmonary resuscitation, massage, cryotherapy, hydrotherapy, and practical application of muscle reconditioning. Prerequisites: None.

## History (HIS)

HIS102 3 CREDITS 3 PERIODS

### History of Western Civilization 1789 to Present

Survey of origin and development of Western civilization and its institutions from French Revolution through the present. Prerequisites: None.

HIS103 3 CREDITS 3 PERIODS

## **United States History to 1870**

The political, economic, and social development of United States from Colonial through Reconstruction period. Prerequisites: None.

HIS104 3 CREDITS 3 PERIODS

## **United States History 1870 to Present**

The political, economic and social development of United States from Reconstruction period up to present time. Prerequisites: None.

HIS106 3 CREDITS 3 PERIODS

### **Southwest History**

Survey of Hispanic, Anglo, African-American and Native cultures of the peoples who have settled the American Southwest. Emphasis on cattle, mining, fur trade and transportation industries and role development of the region. Prerequisites: None.

HIS201 3 CREDITS 3 PERIODS

### History of Women in America

Introduction to women's history from the colonial period to the present. Deals chronologically with changes and developments which have influenced the lives of women. Prerequisites: None.

# HIS273 3 CREDITS 3 PERIODS US Experience in Vietnam 1945 - 1975

Survey of the US experience in Vietnam, 1945-1975, in view of political, economic, and social forces of the Cold War. Prerequisites: None.

HIS277 3 CREDITS 3 PERIODS

### The Modern Middle East

Survey of the political and economic development of the Middle East since 1500. Emphasis on the decline of the Moslem empire, the resurgence of contemporary Pan-Arabian, the Palestinian-Israeli question and the impact of oil production on the region and the rest of the world. Prerequisites: None.

## **Humanities (HUM)**

HUM120 3 CREDITS 3 PERIODS

### **Cultural Viewpoints in the Arts**

Introduction to the influence of culture and ethnicity on the artist, including factors such as race, religion, gender, class, sexual preference, age, and region. Lecture and discussion on various art forms, including literature, visual arts, music, dance, film, and theater. Prerequisites: None.

## HUM250 3 CREDITS 3 PERIODS Ideas and Values in the Humanities

An historical analysis of the interrelationships of art, architecture, literature, music, and philosophy from the early civilizations to the Renaissance, including western and non-western cultures. Prerequisites: ENG101.

## HUM251 3 CREDITS 3 PERIODS Ideas and Values in the Humanities

An historical analysis of the interrelationships of art, architecture, literature, music, and philosophy from the Renaissance to modern period, including Western and Non-Western cultures. Prerequisites: ENG101.

## Journalism (JRN)

JRN201 3 CREDITS 5 PERIODS

### **News Writing**

Writing news for the print media. Composing at the computer keyboard. Associated Press editing style, writing skills, and organizational structure for news. Prerequisites: ENG101, ENG107 or equivalent.

## Management (MGT)

MGT101 3 CREDITS 3 PERIODS

### Techniques of Supervision

Overview of the foundations of supervision and how to get things done within an organization through other people. The functions of planning, organizing, staffing, motivating and controlling presented. Prerequisites: None

MGT229 3 CREDITS 3 PERIODS

### Management and Leadership

Covers management concepts and applications for business, industry, and government organizations. Prerequisites: None.

MGT251 3 CREDITS 3 PERIODS

### **Human Relations in Business**

Analysis of motivation, leadership, communications, and other human factors. Cultural differences that may create conflict and affect morale individually and within organizations. Prerequisites: None. MGT101 or MGT175 or MGT229 suggested, but not required.

MGT253 3 CREDITS 3 PERIODS

### Owning and Operating a Small Business

Starting, organizing, and operating a small business, including location, finance management processes, advertisement and promotion, credit, inventory control and ethics. Prerequisites: None.

## Marketing (MKT)

MKT267 3 CREDITS 3 PERIODS

### Principles of Salesmanship

Analyzes and applies the steps and techniques used in personal selling. Highlights the role of the professional sales representative and his/her functions as they relate to the company's mission and customer expectations. Prerequisites: None.

MKT271 3 CREDITS 3 PERIODS

### Principles of Marketing

An analysis of the marketing process and environment with regard to the product, pricing, distribution, and communication in order to satisfy buyer needs. Prerequisites: None.

## Mass Communications (MCO)

MCO120 3 CREDITS 3 PERIODS

### Media and Society

Study of historical and contemporary roles of media and its pervasiveness in society as it related to politics, education and culture. Prerequisites: ENG101 or ENG107, or equivalent.

## Mathematics (MAT)

MAT065 1 CREDIT 1 PERIOD

### **Graphing Calculator**

Computations, graphing, matrices, and elementary programming using a graphing calculator. Prerequisites: None.

### MAT081 4 CREDITS 4 PERIODS

### **Basic Arithmetic**

Primary emphasis placed on fundamental operations with whole numbers, fractions, decimals, integers, and rational numbers; proportions, and percentages. Other topics include representations of data, geometric figures, and measurement. Prerequisites: None.

### MAT082 3 CREDITS 3 PERIODS

### Basic Arithmetic

Primary emphasis placed on fundamental operations with whole numbers, fractions, decimals, integers, and rational numbers; proportions, and percentages. Other topics include representations of data, geometric figures, and measurement. Prerequisites: None.

## MAT090 5 CREDITS 5 PERIODS

### Developmental Algebra

Linear behavior; linear equations and inequalities in one and two variables; graphs; systems of equations in two variables; function notation, graphs, and data tables; operations on polynomials; properties of exponents; applications. Prerequisites: Grade of "C" or better in MAT082, or MAT102, or equivalent, or satisfactory score on District Placement exam. Course Note: May receive credit for only one of the following: MAT090, MAT091, MAT092, or MAT093.

### MAT091 4 CREDITS 4 PERIODS

### Introductory Algebra

Linear behavior; linear equations and inequalities in one and two variables; graphs; systems of equations in two variables; function notation, graphs, and data tables; operations on polynomials; properties of exponents; applications. Prerequisites: Grade of "C" or better in MAT082, or MAT102, or equivalent or satisfactory score on District placement exam. Course Note: May receive credit for only one of the following: MAT090, MAT091, MAT092, or MAT093.

# MAT092 3 CREDITS 3 PERIODS Introductory Algebra

Linear behavior; linear equations and inequalities in one and two variables; graphs; systems of equations in two variables; function notation, graphs, and data tables; operations on polynomials; properties of exponents; applications. Prerequisites: Grade of "C" or better in MAT082, or MAT102, or equivalent, or satisfactory score on District Placement exam. Course Note: May receive credit for only one of the following: MAT090, MAT091, MAT092, or MAT093.

## MAT102 3 CREDITS 3 PERIODS

## 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 MAT082, or equivalent, or satisfactory score on District placement exam.

## MAT120 5 CREDITS 5 PERIODS

### Intermediate Algebra

Quadratic, rational, radical, exponential, and logarithmic functions and equations; graphs of quadratic, exponential, and logarithmic functions; equations quadratic in form; operations on rational expressions, radical expressions, and complex numbers; rational exponents; applications. Prerequisites: Grade of "C" or better in MAT090, MAT091, MAT092, MAT093, or equivalent, or a satisfactory score on the District placement exam. Course Note: May receive credit for only one of the following: MAT120, MAT121, or MAT122.



### MAT121 4 CREDITS 4 PERIODS

### Intermediate Algebra

Quadratic, rational, radical, exponential, and logarithmic functions and equations; graphs of quadratic, exponential, and logarithmic functions; equations quadratic in form; operations on rational expressions, radical expressions, and complex numbers; rational exponents; applications. Prerequisites: Grade of "C" or better in MAT090, MAT091, MAT092, MAT093, or equivalent, or a satisfactory score on the District placement exam. Course Note: May receive credit for only one of the following: MAT120, MAT121, or MAT122.

### MAT122 3 CREDITS 3 PERIODS

### Intermediate Algebra

Quadratic, rational, radical, exponential, and logarithmic functions and equations; graphs of quadratic, exponential, and logarithmic functions; equations quadratic in form; operations on rational expressions, radical expressions, and complex numbers; rational exponents; applications. Prerequisites: Grade of "B" or better in MAT090, MAT091, MAT092, MAT093, or equivalent, or a satisfactory score on the District placement exam. Course Note: May receive credit for only one of the following: MAT120, MAT121, or MAT122.

## MAT142 3 CREDITS 3 PERIODS 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 MAT120 or MAT121 or MAT122 or equivalent, or satisfactory score on District placement exam.

# MAT150 5 CREDITS 5 PERIODS College Algebra Concepts

Relations and functions; polynomial functions; exponential and logarithmic functions; systems of equations and inequalities; matrices; sequences and series. Prerequisites: Grade of "C" or better in MAT120 or MAT121 or MAT122 or equivalent, or satisfactory score on District placement exam. Course Notes: May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187.

### MAT151 4 CREDITS 4 PERIODS

## College Algebra

Relations and functions; polynomial functions; exponential and logarithmic functions; systems of equations and inequalities; matrices; sequences and series. May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187. Prerequisites: Grades of "C" or better in MAT120, MAT121, MAT122, equivalent, or satisfactory score on District placement exam. Course Notes: May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187.

# MAT152 3 CREDITS 3 PERIODS College Algebra

Relations and functions; polynomial functions; exponential and logarithmic functions; systems of equations and inequalities; matrices; sequences and series. Prerequisites: Grade of "B" or better in MAT120 or MAT121 or MAT122 or equivalent, or satisfactory score on District placement exam. Course Notes: May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187.

## MAT156 3 CREDITS 3 PERIODS Mathematics for Elementary Teachers I

Focuses on numbers and operations. Algebraic reasoning and problem solving integrated throughout the course. Prerequisites: Grade of "C" or better in MAT142 or MAT150 or MAT151 or MAT152 or equivalent, or satisfactory score on District placement exam.

## MAT157 3 CREDITS 3 PERIODS Mathematics for Elementary Teachers II

Focuses on measurement, geometry, probability and data analysis. Appropriate technologies, problem solving, reasoning, and proof are integrated throughout the course. Prerequisite: MAT156 or equivalent.

## MAT167 3 CREDITS 3 PERIODS Elements of Statistics

Basic concepts and applications of statistics, including data description, estimation and hypothesis tests. Prerequisites: Grade of "C" or better in MAT150 or MAT151 or MAT152 or equivalent or satisfactory score on District placement exam.

## MAT172 3 CREDITS 3 PERIODS

### Finite Mathematics

An introduction to the mathematics required for the study of social and behavioral sciences. Includes sets, combinatorics, probability, matrix algebra, linear

programming and mathematics of finance. Prerequisites: Grade of "C" or better in MAT150, or MAT151, or MAT152, or equivalent, or satisfactory score on District placement exam.

### MAT182 3 CREDITS 3 PERIODS

### Plane Trigonometry

A study of measures of angles, properties of graphs of trigonometric functions, fundamental identities, addition and half-angle formulas, inverse trigonometric functions, solutions of trigonometric equations, complex numbers and properties of triangle solution. May receive credit for only one of the following: MAT182 or MAT187. Prerequisites: Grade of "C" or better in MAT150, or MAT151, or MAT152, or equivalent, or concurrent registration in MAT150, or MAT151, MAT152, or satisfactory score on District placement exam.

## MAT187 5 CREDITS 5 PERIODS Precalculus

A precalculus course combining topics from college algebra and trigonometry. Preparation for analytic geometry and calculus. May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187. Prerequisites: Grade of "B" or better in MAT120, or MAT122, or equivalent, or satisfactory score on a placement test. Strongly recommended that students have some knowledge of trigonometry.

## MAT212 3 CREDITS 3 PERIODS Brief Calculus

An introduction to the theory, techniques and applications of the differential and integral calculus of elementary functions with problems of interest to students in business and the social sciences. Prerequisites: Grade of "C" or better in MAT150, or MAT151, or MAT152, or equivalent, or satisfactory score on District placement exam.

## MAT216 3 CREDITS 3 PERIODS Technical Calculus I

Analytic geometry, differential, and integral calculus of elementary functions, emphasizing physical interpretation and problem solving. Prerequisites: Grade of "C" or better in MAT187, or (MAT150, or MAT151, or MAT152) and MAT182, or equivalent, or satisfactory score on District placement exam.

# MAT220 5 CREDITS 5 PERIODS Analytic Geometry and Calculus I

Topics from analytic geometry with special emphasis on inequalities and absolute value expressions, limits, continuity, the fundamental principles and formulae for differential and integral calculus along with their applications to geometry and mechanics, the mean value theorems and the fundamental theorem of calculus. May receive credit for only one of the following: MAT220 or MAT221. Prerequisites: Grade of "C" or better in (MAT150 or MAT151 or MAT152) and MAT182 or MAT187 or equivalent, or satisfactory score on district placement exam.

## MAT221 4 CREDITS 4 PERIODS Calculus with Analytic Geometry I

Real numbers, limits, continuity, differential and integral calculus of functions of one variable. May receive credit for only one of the following: MAT220 or MAT221. Prerequisites: Grade of "C" or better (MAT150 or MAT151 or MAT152) and MAT182 or MAT187 or equivalent, or satisfactory score on district placement exam.

## MAT225 3 CREDITS 3 PERIODS

### **Elementary Linear Algebra**

Introduction to matrices, systems of linear equations, determinants, vector spaces, linear transformations and eigenvalues. Emphasizes the development of computational skills. Prerequisites: Grade of "C" or better in MAT212 or MAT220, or MAT221, or equivalent.

### MAT226 3 CREDITS 3 PERIODS

### Technical Calculus II

Differential, and integral calculus of trigonometric, exponential, and logarithmic functions including partial derivatives, double integrals, and polar coordinates. Prerequisites: Grade of "C" or better in MAT216.

### MAT231 4 CREDITS 4 PERIODS

### Calculus with Analytic Geometry II

Methods of integration, applications of calculus, elements of analytic geometry, improper integrals, sequences and series. May receive credit for only one of the following: MAT230 or MAT231. Prerequisites: Grade of "C" or better in MAT220 or MAT221 or equivalent.

## MAT236 3 CREDITS 3 PERIODS

### Technical Calculus III

Infinite series, an introduction to differential equations of elementary linear algebra. Prerequisites: Grade of "C" or better in MAT226.



### MAT241 4 CREDITS 4 PERIODS

### Calculus with Analytic Geometry III

Vector-valued functions of several variables, multiple integration, introduction to vector analysis. Prerequisites: Grade of "C" or better in MAT230 or MAT231.

## MAT262 3 CREDITS 3 PERIODS Differential Equations

Ordinary differential equations with applications including LaPlace transforms with numerical methods. Prerequisites: Grade of "C" or better in MAT230 or MAT231 or equivalent.

MAT282AA 1 CREDIT 1 PERIOD
MAT282AB 2 CREDITS 2 PERIODS
MAT282AC 3 CREDITS 3 PERIODS

### Volunteerism for Mathematics: A Service Learning Experience

Service learning field experience within private/public agencies, educational institutions, and citizen volunteer groups. Prerequisites: Permission of instructor. Course Notes: May be repeated for a total of six (6) credit hours. Standard grading available according to procedures outlined in catalog.

## Microsoft Technology (MST)

MST140 3 CREDITS 4 PERIODS

### Microsoft Networking Essentials

Emphasis on local area network with overview of wide area networks. Includes terminology, hardware and software components, connectivity, network architecture, packet structure, topologies, communication standards and protocols, and security issues. Preparation for Microsoft certification examination. Prerequisites: None. Recommend BPC110 or CIS105, and BPC121AB.

### MST145 3 CREDITS 4 PERIODS

### Microsoft Client System Administration

Knowledge and skills to install, configure, customize, optimize, maintain, and troubleshoot the Microsoft Windows client operating system in a Microsoft networking environment. Preparation for Microsoft certification examination. Prerequisites or corequisites: MST140 or permission of instructor.

### MST146 2 CREDITS 3 PERIODS

# Data Modeling and Relational Database Design

Top-down, systematic approach to developing a relational database and defining requirements as entities, attributes, and relationships. Developing an entity-relationship (ER) diagram that accurately reflects the business. Mapping the ER diagram to an initial database design. Prerequisites: CIS105, or MST140, or permission of instructor.

### MST150 3 CREDITS 4 PERIODS

### Microsoft Windows Professional

Knowledge and skills necessary to perform day-to-day administration tasks in a Microsoft Windows-based network. Preparation for Microsoft certification examination. Prerequisites: None. CIS190, or CNT140, or MST140 suggested but not required.

## MST150DA 3 CREDITS 5 PERIODS Microsoft Windows 2000 Professional

Knowledge and skills necessary to perform day-to-day administration tasks of Microsoft Windows 2000 Professional. Preparation for Microsoft certification examination. Prerequisites: None. CIS190, or CNT140, or MST140 suggested but not required.

### MST150XP 3 CREDITS 4 PERIODS

### Microsoft Windows XP Professional

Knowledge and skills necessary to perform day-to-day administration tasks of Microsoft Windows XP Professional. Preparation for Microsoft certification examination Prerequisites: None. CIS190, or CNT140, or MST140 suggested but not required.

### MST152 4 CREDITS 5 PERIODS

### Microsoft Windows Server

Knowledge and skills necessary to install, configure, customize, optimize, network, integrate, and troubleshoot Windows Server. Preparation for Microsoft certification examination. Prerequisites or Corequisites: Any MST150 course or permission of instructor.

## MST152DA 4 CREDITS 6 PERIODS MICROSOft Windows 2000 Server

Knowledge and skills necessary to install, configure, customize, optimize, network, integrate, and troubleshoot Microsoft Windows 2000 Server. Preparation for Microsoft certification examination. Prerequisites or Corequisites: Any MST150 course or permission of instructor.

4 PERIODS

### MST152WC 3 CREDITS

### Windows 2003 Server Administration: Level I

Knowledge and skills necessary to install, configure, and maintain Windows 2003 Server accounts and resources. Preparation for Microsoft certification examination. Prerequisites or Corequisites: Any MST150 course or permission of instructor.

# Windows 2003 Server Administration: Level II

Knowledge and skills necessary to administer, monitor, and maintain a Windows 2003 Server and network. Preparation for Microsoft certification examination. Prerequisites or Corequisites: Any MST152 course or permission of instructor.

# MST155 3 CREDITS 4 PERIODS Implementing Windows Network Infrastructure

Knowledge and skills to install, configure, maintain, and support a Microsoft Windows network infrastructure. Preparation for Microsoft certification examination. Prerequisites or corequisites: Any MST152 course or permission of instructor.

### MST157 3 CREDITS 4 PERIODS

## Implementing Windows Directory Services

Knowledge and skills to install, configure, and administer Microsoft Windows Active Directory directory services. Preparation for Microsoft certification examination. Prerequisites: Any MST152 course or permission of instructor.

## MST170 4 CREDITS 5 PERIODS

# Visual Basic Desktop Application Development

Use of Visual Basic programming language to create database applications using Visual Data Access tools, ActiveX Controls, Component Objects, and Structured Query Language (SQL) Server database. Prerequisites: CIS159 or permission of instructor.

### MST171 3 CREDITS 4 PERIODS

### Microsoft FrontPage

Knowledge and skills to analyze, design, build, and implement enterprise Web sites using Microsoft FrontPage. Includes use of ActiveX components, databases, and FrontPage server extensions. Prerequisites: (CIS233BA or CIS233DA) and MST170, or permission of instructor.

MST172 3 CREDITS 4 PERIODS

### Microsoft Visual Basic Distributed Applications

Knowledge and skills to build three-tier client/server solutions. Use of Microsoft Visual Basic to build Component Object Model (COM) Dynamic-Link Libraries (DLLs). Retrieve and modify records using ActiveX Data Objects (ADO). Create stored procedures with Structured Query Language (SQL). Preparation for Microsoft Certified Solutions Developer (MCSD) examination. Prerequisites: MST170 or permission of instructor.

### MST174 3 CREDITS 4 PERIODS

### Microsoft Visual InterDev

Web site programming tasks to create enterprise-level Web sites that use Component Object Model (COM) components on both the client and the server. Preparation for Microsoft Certified Solutions Developer (MCSD) examination. Prerequisites: (CIS233BA or CIS233DA) and MST170, or permission of instructor.

### MST230 3 CREDITS 4 PERIODS

# Supporting a Microsoft Windows New Technology (NT) 4.0 Network

Knowledge and skills required to support and maintain networks using Microsoft Windows New Technology (NT) Server 4.0 as a primary operating system. Preparation for Microsoft Certification Exam, which may be used as a Windows 2000 Microsoft Certified Systems Engineer (MCSE) elective. Prerequisites: Any MST150 course or permission of instructor.

### MST232 3 CREDITS 4 PERIODS

### Managing a Windows Network Environment

Knowledge and skills necessary to administer Windows network operating systems. Preparation for Microsoft certification examination. Prerequisites: MST140, MST150, and MST152, or permission of instructor.

### MST240 3 CREDITS 4 PERIODS

### Microsoft Transmission Control Protocol/Internet Protocol (TCP/IP)

Knowledge and skills necessary to install, configure, use, and support TCP/IP on Microsoft Windows network. Preparation for Microsoft certification examination. Prerequisites: MST152 or permission of instructor.

#### MST242 4 CREDITS 5 PERIODS

### Microsoft Exchange Server

Knowledge and skills required to plan, implement, and administer Microsoft Exchange Server. Preparation for Microsoft certification examination. Prerequisites: Any MST152 course or permission of instructor

#### 3 CREDITS **MST244** 4 PERIODS

### Microsoft SQL Server Administration

Knowledge and skills required to install, configure, and administer Microsoft SQL server. Preparation for Microsoft certification examination.

Prerequisites: Any MST152 course, or MST170, or permission of instructor.

#### **MST246** 2 CREDITS 3 PERIODS

### Implementing Microsoft Internet Explorer

Strong foundation in the architecture and key features of Microsoft Internet Explorer. Set up, configure, use, and deploy Internet Explorer in a network environment, with particular emphasis on intranet use. Prerequisites: Any MST152 course or permission of instructor. Knowledge of HTML suggested but not required.

### MST247 2 CREDITS 3 PERIODS

### Microsoft Proxy Server

Knowledge and skills to install, configure, and administer Microsoft Proxy Server. Preparation for Microsoft certification examination. Prerequisites: MST155, or MST240, or permission of instructor.

### MST252 3 CREDITS 4 PERIODS

### Microsoft Windows Network Upgrade

Evaluate differences between current version of Microsoft Windows network operating system and upgraded version. Intended for Microsoft network administrators seeking upgrade training. Prerequisites: MST152 or permission of instructor.

### 3 CREDITS 4 PERIODS

### Designing a Microsoft Windows 2000 Directory Services Infrastructure

Provides students with the knowledge and skills necessary to plan and implement Microsoft Windows 2000 Directory Services in an enterprise environment. Prerequisites: Any MST152 course, or permission of instructor.

#### MST254 3 CREDITS 4 PERIODS

### Microsoft SQL Server Design and **Implementation**

Knowledge and skills required to design and implement databases using Microsoft SQL Server. Preparation for Microsoft certification examination. Any MST152 course, or MST170, or permission of instructor.

#### MST255 3 CREDITS 4 PERIODS

### Designing Windows Network Infrastructure

Knowledge and skills to create a networking services infrastructure design that supports network applications and the needs of an organization. Preparation for Microsoft certification examination. Prerequisites or Corequisites: MST155 or permission of instructor.

### MST259 3 CREDITS 4 PERIODS

### Designing Windows Network Security

Knowledge and skills to analyze business requirements and processes to design a security solution for a Microsoft Windows network. Preparation for Microsoft certification examination. Prerequisites or Corequisites: MST157 or permission of instructor.

### MST270 3 CREDITS 4 PERIODS

### Microsoft Solution Architectures

Knowledge and skills to analyze business requirements in a given scenario and define technical solution architectures to optimize business results using Microsoft development tools. Prerequisites: (ACC230 or GB\$151) and MST170, or permission of instructor.

## Music: Commercial/ **Business (MUC)**

### MUC 195 3 CREDITS **5 PERIODS**

### Studio Music Recording I

Basic principles of studio sound recording. Emphasis on musical acoustics, operation of recording equipment, studio setups, and multitrack recording. Includes studio session process and musical production decisions. Prerequisites: None.

### 3 CREDITS **MUC196 5 PERIODS**

### Studio Music Recording II

Emphasis on signal-processing equipment, mixing consoles, and advanced musical recording session procedures, production, and engineering. Includes mix-down and resultant master tape of a musical recording session. Prerequisites: MUC195.

### Music in World Cultures

Non-European musical traditions including the study of music in rituals, musical instruments and the impact of cultures on musical styles.

Prerequisites: None.

MHL145 3 CREDITS 3 PERIODS

## American Jazz and Popular Music

The study of cultural and social contributions to the evolution of American jazz and popular music from mid-1800's to present. Prerequisites: None.

MHL146 3 CREDITS 3 PERIODS

### Survey of Broadway Musicals

Survey of Broadway musicals traced from their origins to the present viewed in their cultural, political, and socio-economic contexts. Emphasis on stylistic periods, composers, lyricists, directors, and choreographers. Prerequisites: None.

MHL153 3 CREDITS 3 PERIODS

### **Rock Music and Culture**

History of Rock 'n' Roll and its impact of American popular culture. Prerequisites: None.

MHL155 3 CREDITS 3 PERIODS

### Survey of American Music

History of the music of North America from the earliest American Indian music to the present. Introduction to the musical trends, composers, socioeconomic developments and trends, musical forms and styles that influence our modern American musical sense. Prerequisites: None.

MHL156 3 CREDITS 3 PERIODS

### Music in Latin America and the Carribean

To discuss the role of music in Latin and Caribbean cultures and the impact of these cultures on music. To present a historical survey to the evolution and development of musical styles from rumba to reggae. Among the topics, and to include: origins, gender, race, ethnicity, politics, elements of music, instruments, both sacred and secular music, and significant individuals influencing the evolution of many different genres of music in Latin America and Caribbean cultures. Prerequisites: None.

MHL241 3 CREDITS 3 PERIODS

### Music History and Literature to 1750

In-depth study of music history from the primitive era through the Baroque period. Prerequisites: MTC155 and MTC156 or permission of instructor.

MHL242 3 CREDITS 3 PERIODS

## Music History and Literature 1750 to Present

In-depth study of music history from the Classical period through the Contemporary period. Prerequisites: MHL241 or permission of instructor.

## Music: Performance (MUP)

MUP101	1 CREDIT	.6 PERIOD
MUP151	1 CREDIT	.6 PERIOD
MUP201	1 CREDIT	.6 PERIOD
MUP251	1 CREDIT	.6 PERIOD

### **Private Instruction**

Private instruction emphasizing developmental improvement of musicianship and technique from an entering skill level. Four course sequence required of all music majors meeting departmental requirements. Instruction provided on voice, piano, harpsichord, organ, guitar, trumpet, French horn, trombone, baritone horn, tuba, flute, oboe, clarinet, bassoon, saxophone, violin, viola, violoncello, contrabass, bass guitar, percussion, and harp. May be repeated for credit. Prerequisites: None.

MUP102	2 CREDITS	1.2 PERIODS
MUP152	2 CREDITS	1.2 PERIODS
MUP202	2 CREDITS	1.2 PERIODS
MUP252	2 CREDITS	1.2 PERIODS

### **Private Instruction**

Private instruction emphasizing musicianship, literature, technique and performance. Four course sequence designed for university transfer equivalency. Instruction provided on voice, piano, harpsichord, organ, guitar, trumpet, French horn, trombone, baritone horn, tuba, flute, oboe, clarinet, bassoon, saxophone, violin, viola, violoncello, contrabass, bass guitar, percussion, and harp. May be repeated for credit. Prerequisites: None.

MUP131 2 CREDITS 3 PERIODS

### Class Piano I

Development of beginning piano techniques and the fundamentals of music including basic hand position, music reading skills of melodic and harmonic material, major scales, transposition, and harmonizations including the I, IV, V7 chords. Prerequisites: None.

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## MUP132 2 CREDITS 3 PERIODS

### Class Piano II

Continuation of Piano I with emphasis on elementary piano techniques including major and minor scales, transposition, improvisation, and sight reading. Prerequisites: MUP131 or permission of instructor.

### MUP133 2 CREDITS 3 PERIODS

### Class Voice I

Introduction to the fundamentals of vocal production. Emphasis on breathing techniques, tone production and performances in class of solo vocal literature. Prerequisites: None.

## MUP134 2 CREDITS 3 PERIODS Class Voice II

Continuation of Class Voice I including the elements of stage presence and diction. Prerequisites: MUP133 or permission of instructor.

## MUP150 1 CREDIT 3 PERIODS

### **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.

## MUP154AA 1 CREDIT 3 PERIODS Jazz Vocal Ensemble

Practical and performing experience in vocal jazz. Includes music from the 1920's through the present. Prerequisites: Auditions required or permission of instructor.

## MUP159 1 CREDIT 3 PERIODS Community Orchestra

Emphasis on college/community participation and the preparation of orchestral literature for public performance. Auditions may be required. May be repeated for credit. Prerequisites: None.

# MUP161 1 CREDIT 3 PERIODS Community Band

Emphasis on college/community participation and the preparation of band literature for public performance. Auditions may be required. May be repeated for credit. Prerequisites: None.

### MUP163 1 CREDIT 3 PERIODS

### Jazz Ensemble

Practical and performance experience in various jazz styles. Open to all students on the basis of auditions. May be repeated for credit. Prerequisites: None.

### MUP164 2 CREDITS 3 PERIODS

### Jazz Improvisation I

Theoretical and performance skills in many styles of jazz improvisation. May be repeated for a total of six (6) credit hours. Prerequisites: None.

### MUP181 1 CREDIT 2 PERIODS

### Chamber Music Ensembles

Practical and performance experience in instrumental, vocal, and mixed ensembles. May be repeated for credit. Prerequisites: None.

### MUP182 1 CREDIT 3 PERIODS

### Chamber Singers

Practical and performance experience in various styles of vocal music. Open to all students on the basis of auditions. May be repeated for credit. Prerequisites: None.

## MUP209 2 CREDITS 2 PERIODS Elements of Conducting

Essentials of conducting techniques used in choral and instrumental ensembles including terminology, interpretation, and styles. Prerequisites: None.

## MUP225 2 CREDITS 3 PERIODS Class Guitar I

Emphasis on note-reading and folk-style harmonic accompaniment. Includes finger-style playing. Stresses development of efficient practice techniques and proper sitting and hand positions. Prerequisites: None.

### MUP226 2 CREDITS 3 PERIODS Class Guitar II

Note-reading range including second position and parts of higher positions. Classical, popular, Latin, and other styles of music. Theory including scales, keys, and chord construction. Technical exercises of both hands. Prerequisites: MUP225 or permission of instructor.

## MUP227 2 CREDITS 3 PERIODS Class Guitar III

Additional fingerboard positions. Ensemble techniques and performance. Prerequisites: MUP226 or permission of instructor.

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## MUP228 2 CREDITS 3 PERIODS Class Guitar IV

Advanced fingerboard positions. Duet and trio performances. Advanced ensemble techniques. Prerequisites: MUP227 or permission of instructor.

## MUP231 2 CREDITS 3 PERIODS Class Piano III

Development of intermediate piano techniques including selected solo literature, transposition of harmonic patterns, and secondary dominants. Prerequisites: MUP132 or permission of instructor.

## MUP232 2 CREDITS 3 PERIODS Class Piano IV

Continuation of Piano III including modulation techniques, improvisation of piano accompaniments, advanced chromatic harmony, and sight reading of advanced literature. Prerequisites: MUP231 or permission of instructor.

## MUP233 2 CREDITS 3 PERIODS Class Voice III

Interpretive singing through a closer examination of coloring, tone production, dynamics, and tempo indications. Prerequisites: MUP134.

## MUP234 2 CREDITS 3 PERIODS Class Voice IV

Continuation of Class Voice III with additional emphasis on the preparation of solo vocal literature for the purpose of evaluation and the integration of the music with the drama of the music.

Prerequisites: MUP233 or permission of instructor.

## MUP270 2 CREDITS 5 PERIODS Musical Theatre Workshop

Workshop in the study and performance of Musical Theatre repertoire. Including audition techniques, talent evaluation criticism, rehearsal techniques, vocal acting styles, stage movement, and performance. May be repeated for credit. Prerequisites: None.

## Music: Theory/Composition (MTC)

MTC100 2 CREDITS 3 PERIODS

#### Fundamentals of Music

Introduction to music notation and theory. Emphasis on fundamental concepts, including meter, rhythm, scales, keys, intervals and triads. Designed for the nonmusic major, but may be advised for music majors. Prerequisites: None.

## MTC101 3 CREDITS 3 PERIODS Introduction to Music Theory

Designed to develop written and aural skills necessary for advanced study of music theory and skills. Recommended for music majors. Prerequisites: None.

## MTC103 2 CREDITS 2 PERIODS Introduction to Aural Perception

An introduction to the aural skills necessary to hear relationships of intervals, rhythms, melody, and harmony in music. May be repeated for a total of four (4) credit hours. Prerequisites: None.

## MTC105 3 CREDITS 3 PERIODS Music Theory I

The chronological study of music theory including: harmony, melody, texture, structure and timbre through analysis, original compositions and basic exercises to demonstrate musical concepts. Prerequisites: MTC100 or MTC101 or permission of instructor. Corequisites: MTC106.

## MTC106 1 CREDIT 2 PERIODS Aural Perception I

The development of listening and performing skills through dictation, sight singing and keyboard harmony. Prerequisites: None. Corequisites: MTC105.

## MTC155 3 CREDITS 3 PERIODS Music Theory II

A continuation of Music Theory I with emphasis on harmony and part-writing procedures. Prerequisites: MTC105. Corequisites: MTC156.

## MTC156 1 CREDIT 2 PERIODS Aural Perception II

A continuation of Aural Perception I, including harmonic practices. Prerequisites: None. Corequisites: MTC155.

## MUSIC Theory III

The study of chromatic harmony and melody, modulation techniques and expanded chords. The analysis of formal structure. Prerequisites: MTC155. Corequisites: MTC206.



MTC206 1 CREDIT 2 PERIODS
Aural Perception III

A development of listening and performing skills, including an introduction of chromatic harmonic techniques and concepts of style. Prerequisites: None. Corequisites: MTC205.

## MTC240 3 CREDITS .6 PERIODS Composition

Introduction to the basics of music composition, stressing techniques and procedures for developing original ideas. May be repeated for total of twelve (12) credit hours. Prerequisites: (MTC105 and MTC106, or equivalent) , and permission of instructor.

## MTC255 3 CREDITS 3 PERIODS Music Theory IV

A continuation of Music Theory III, including 20th century theories and techniques. Prerequisites: MTC205. Corequisites: MTC256.

MTC256 1 CREDIT 2 PERIODS

### **Aural Perception IV**

A continuation of Aural Perception III, including extended chords. Prerequisites: None. Corequisites: MTC255.

## Networking Technology (NET)

NET181AA 1.5 CREDITS 3.5 PERIODS

### Visual BASIC for the Technologies I

System familiarization, flowcharting, pseudocoding, formatting, subprograms, BASIC language mathematics and numbers. Prerequisites: None.

## Office Automation Systems (OAS)

OAS108 3 CREDITS 3 PERIODS

### **Business English**

Comprehensive coverage of correct use of English grammar including spelling, punctuation, capitalization, and number style mechanics in a business context. Prerequisites: None.

## OAS135DK 2 CREDITS 2 PERIODS Word:Level I

Using Word word processing software to create and name files, edit text; format, and print a variety of documents. Prerequisites: The ability to use a keyboard at a minimum of 24 wpm or permission of instructor.

## Philosophy (PHI)

PHI101 3 CREDITS 3 PERIODS

### Introduction to Philosophy

General consideration of human nature and the nature of the universe. Knowledge, perception, freedom and determinism, and the existence of God. Prerequisites: None.

PHI103 3 CREDITS 3 PERIODS

### Introduction to Logic

Informal logic, logical fallacies, elementary symbolic logic, analysis of argument forms, and construction of proofs for validity. Prerequisites: ENG101 or ENG107 or equivalent.

PHI105 3 CREDITS 3 PERIODS

#### Introduction to Ethics

Major theories of conduct. Emphasis on normative ethics, theories of good and evil from Plato to the present. Prerequisites: None.

## Physical Education (PED)

PED101	1 CREDIT	2 PERIODS
PED102	1 CREDIT	2 PERIODS
PED201	1 CREDIT	2 PERIODS
PED202	1 CREDIT	2 PERIODS

### **Physical Activities**

Individual, dual, or team sports activities as listed in the schedule of classes. May be repeated for credit. Prerequisites: None.

PED115 2 CREDITS 4 PERIODS

#### Lifetime Fitness

Fitness activity and wellness study to help develop a lifetime of regular exercise, stress management, and proper nutrition. Workout includes warm-up/stretch, aerobic exercise, selected strength exercises, and cool down/stretch. May be repeated for credit. Prerequisites: None.

PED117 2 CREDITS 4 PERIODS

#### Weight Training for Wellness

Weight training activity and wellness study to help develop a lifetime of regular exercise, stress management, and proper nutrition. Workout includes warm-up/stretch, selected endurance/strength exercises, and cool down/stretch. May be repeated for a maximum of eight (8) credits. Prerequisites: None. PED121 1 CREDIT 2 PERIODS

### **Physical Conditioning for Massage Therapists**

Physical fitness necessary for current and prospective massage therapists. Includes physical fitness and workout techniques as related to performing massage therapy; individual conditioning strategies, and basic nutritional guidelines. Prerequisites: None.

#### PED144 3 CREDITS 5 PERIODS

### Strategies in Diabetes Management

Introduction to strategies in diabetes mellitus management and prevention for individuals diagnosed with diabetes and their caretakers. Includes a physical activity component. Prerequisites: None

# PED200 3 CREDITS 3 PERIODS Introduction to Exercise Science and Physical Education

Introductory course for students considering or just beginning a course of study in exercise science and physical education. Overview of each of the disciplines, sub- disciplines, and professions in the cross-discipline field of exercise science/physical education, including historical and philosophical foundations. Course emphasizes the study of physical activity. Prerequisites: None.

## PED210JX 1 CREDIT 3 PERIODS Movement Analysis: Golf

Practical application of biomechanical, physiological, psychological, and teaching/learning principles in the analysis of skill acquisition and performance. Prerequisites: None.

## PED210TP 1 CREDIT 3 PERIODS Movement Analysis:Soccer

Practical application of biomechanical, physiological, psychological, and teaching/learning principles in the analysis of skill acquisition and performance. Prerequisites: None.

## PED210XP 1 CREDIT 3 PERIODS Movement Analysis: Weight Training

Practical application of biomechanical, physiological, psychological, and teaching/learning principles in the analysis of skill acquisition and performance. Prerequisites: None.

# Instructional Competency Laboratory: Cardiorespiratory Exercises and Activities

Fundamental methods of instructing and leading fitness activities including cardiorespiratory exercises

and activities. Core competencies identified by professional certification agencies. Prerequisites: None.

## PED212FL 2 CREDITS 3 PERIODS Instructional Competency Laboratory:

Fundamental methods of instructing and leading fitness activities including flexibility activities. Core competencies identified by professional certification agencies. Prerequisites: None.

PED212SC 2 CREDITS 3 PERIODS

### Instructional Competency Laboratory: Muscular Strength and Conditioning

Flexibility and Mind-Body Exercises

Fundamental methods of instructing and leading fitness activities including strength and conditioning activities. Core competencies identified by professional certification agencies. Prerequisites: None.

#### PED215 3 CREDITS 3 PERIODS

#### Fitness for Life

Lifetime health and skill-related components of fitness to achieve total wellness. Topics include health and skill- related components of fitness, guidelines for health and fitness assessment, exercise safety and precautions, nutrition, weight control, cardiovascular risk reduction, psychology of fitness and wellness, consumerism, and overall self-management of personal health and lifestyle habits to achieve the highest potential for well-being. Prerequisites: None.

## Physical Geography (GPH)

GPH111 4 CREDITS 6 PERIODS

### Introduction to Physical Geography

Spatial and functional relationships among climates, landforms, soils, water, and plants. Prerequisites: None.

## Physical Science (PHS)

PHS110 4 CREDITS 6 PERIODS

### **Fundamentals of Physical Science**

Survey of the principles of physics and chemistry. Prerequisites: Grade of "C" or better in MAT091, or MAT092, or satisfactory score on Math placement exam.

## Physics (PHY)

PHY101 4 CREDITS 6 PERIODS

### Introduction to Physics

A survey of physics emphasizing applications of physics to modern life. Designed for students who need a course in physics in order to understand the physical basis of modern technology. Prerequisites: Grade of "C" or better in MAT091 or MAT092, or satisfactory score on Math placement exam.

### PHY111 4 CREDITS 6 PERIODS

### General Physics I

Includes motion, energy, and properties of matter. Prerequisites: Trigonometry or department consent. Course Notes: Recommended for preprofessional and suggested for certain other majors.

## PHY112 4 CREDITS 6 PERIODS General Physics II

Includes electricity, electromagnetism, and modern physics. Prerequisites: PHY105 or PHY111.

## PHY121 4 CREDITS 6 PERIODS University Physics I: Mechanics

Kinematics, Newton's laws, work, energy, momentum, conservation laws, dynamics of particles, solids, fluids, mechanical waves, and sound. Prerequisites: MAT220 or MAT221 or department consent. One year of High School physics or PHY111 and PHY112 is strongly recommended.

### PHY131 4 CREDITS 6 PERIODS University Physics II: Electricity and Magnetism

Electric charge and current, electric and magnetic fields in vacuum and in materials, and induction. AC circuits, displacement current, and electromagnetic waves. Prerequisites: MAT230 or MAT231 or department consent and PHY121. Corequisites: MAT241 or department consent.

# University Physics III: Thermodynamics, Optics, and Wave Phenomena

Heat, entropy, and laws of thermodynamics; wave propagation; geometrical and physical optics; introduction to special relativity. Prerequisites: PHY131.

## Political Science (POS)

POS100 3 CREDITS 3 PERIODS

#### Introduction to Political Science

Introduction to the discipline of political science and its relation to other disciplines with emphasis on the major philosophies and institutions of government. Prerequisites: None.

## POS110 3 CREDITS 3 PERIODS American National Government

Study of the historical backgrounds, governing principles, and institutions, of the national government of the United States. Prerequisites: None.

## POS 120 3 CREDITS 3 PERIODS World Politics

Introduction to the principles and issues relating to the study of international relations. Evaluation of the political, economic, national, and transnational rationale for international interactions. Prerequisites: None.

## POS220 3 CREDITS 3 PERIODS U.S. and Arizona Constitution

Examination of the United States Constitution and the constitution and government of the State of Arizona. Prerequisites: None.

#### POS221 1 CREDIT 1 PERIOD

#### **Arizona Constitution**

Examination of the Constitution of the State of Arizona. Equivalent to the second part of POS220. May not enroll in POS220 and POS221 concurrently. Prerequisites: None.

#### POS222 2 CREDITS 2 PERIODS

#### **U.S.Constitution**

Examination of the United States Constitution. Equivalent to the first part of POS220. May not enroll in POS220 and POS222 concurrently. Prerequisites: None.

## Psychology (PSY)

PSY101 3 CREDITS 3 PERIODS

### 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.

### Psychology of Parenting

The demonstration and application of psychological principles to the development and guidance of children and adolescents. Prerequisites: None.

## PSY210 3 CREDITS 3 PERIODS Educational Psychology

Scientific research and psychological principles as they apply to teaching and learning. The role of psychology in educational settings, human diversity, theories of learning, intelligence, memory, creativity, assessment, and factors influencing effective instruction and learning. Prerequisites: PSY101 with a grade of "C" or better or permission of instructor.

### PSY230 3 CREDITS 3 PERIODS

#### 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: PSY101 with a grade of "C" or better and MAT092 or equivalent, or permission of instructor.

## PSY231 1 CREDIT 2 PERIODS Laboratory for Statistics

Applications of inferential and descriptive statistics to computers in the field of psychology. Prerequisites: None. Corequisites: PSY230.

## PSY235 3 CREDITS 3 PERIODS Psychology of Gender Differences

To assess historical and psychological perspectives on women and men and to evaluate contemporary viewpoints regarding the psychology of women and men. Prerequisites: PSY101 with a grade of "C" or better or permission of the instructor.

## PSY240 3 CREDITS 3 PERIODS 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: PSY101 with a grade of "C" or better or permission of the instructor.

PSY241 3 CREDITS 3 PERIODS

### **Understanding and Changing Behavior**

Theory and methods for observing, analyzing, and modifying behavior. Prerequisites: PSY101 with grade of "C" or better or permission of the instructor.

### PSY242 1 CREDIT 2 PERIODS

### **Understanding and Changing Behavior Lab**

Designed to apply the principles of behavior modification. Application of behavior modification principles, techniques, and treatment(s) to modify self-behavior or the behavior of others. Exposure to the "hands-on" application of behavioral programming, including the identification, development, implementation, assessment, and modification of a behavioral program. Prerequisites: PSY101. Prerequisites or Corequisites: PSY241.

### PSY243 3 CREDITS 3 PERIODS

### The Psychology of Developmental Disabilities

The interrelationships among the physical, intellectual, social, and psychological aspects of developmental disabilities (DD). Various service approaches, policies, and programs designed to foster an adequate adjustment for individuals with DD and their families. Values and beliefs relating to persons with developmental disabilities. Prerequisites: PSY101.

### PSY244 1 CREDIT 1 PERIOD

### **Developmental Disabilities Internship**

Experience in working with persons with developmental disabilities and their families. 80 hours of designated work. Prerequisites: PSY101, PSY241, PSY242, and PSY243, and departmental approval.

### PSY266 3 CREDITS 3 PERIODS

### **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: PSY101 with a grade of "C" or better, or permission of instructor.

### PSY270 3 CREDITS 3 PERIODS

### Personal & 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: PSY101 with a grade of "C" or better or permission of the instructor.



#### PSY290AB 4 CREDITS 6 PERIODS

#### Research Methods

Planning, execution, analysis, and written reporting of psychological research. Surveys the literature, procedures, and instruments in representative areas of psychological research. Prerequisites: ENG101, ENG107 or equivalent. Prerequisites or Corequisites: PSY230 (or equivalent) with a grade of "C" or better, or permission of instructor.

#### PSY290AC 4 CREDITS 5 PERIODS

#### Research Methods

Planning, execution, analysis, and written reporting of psychological research. Surveys the literature, procedures, and instruments in representative areas of psychological research. Prerequisites: ENG101, ENG107 or equivalent. Prerequisites or Corequisites: PSY230 (or equivalent) with a grade of "C" or better, or permission of instructor.

## Reading Education (RDG)

RDG030 3 CREDITS 3 PERIODS

### Reading English as a Second Language III

Designed for students who are learning English as a Second Language. Includes instruction for more advanced vocabulary and reading comprehension skills. Prerequisites: Appropriate ESL placement test score or grade of "C" or better in RDG020 or permission of instructor.

### RDG040 3 CREDITS 3 PERIODS

### Reading English as a Second Language IV

Developed for students of English as a second language. Includes development of advanced vocabulary, comprehension skills, and culture awareness. Prerequisites: Appropriate ESL placement test score or grade of "C" or better in RDG030 or permission of instructor.

#### RDG081 3 CREDITS 3 PERIODS

#### Reading Improvement

Designed to improve basic reading skills. Includes word recognition, prediction of contents of reading selections, and development of basic vocabulary. Emphasis on identifying main ideas and related details. Reviews following directions and the understanding of graphic materials. Prerequisites: Placement test scores, or permission of instructor.

#### RDG091 3 CREDITS 3 PERIODS

### College Reading Skills I

Designed to improve basic reading and study skills, vocabulary and comprehension skills. Recommended to all students whose placement test scores indicate a need for reading instruction. Prerequisites: Reading placement test score (ASSET), or grade of "C" or better in RDG081, or permission of instructor.

## **Recreation (REC)**

REC120 3 CREDITS 3 PERIODS

#### Leisure and the Quality of Life

Overview of the historical, psychological, social, and cultural aspects of play, leisure, and recreation and their role in contemporary society. Nature of play and leisure behavior in human development within different cultures and the contribution play, recreation, and leisure make to the quality of life for individuals in today's society. Prerequisites: None.

## REC150AA 1 CREDIT 2 PERIODS Outdoor Living Skills Field Experience

Practical application of camping and outdoor skills including camping, equipment selection and use, cooking, fire building, camp programs, backpacking, and safety. Prerequisites: None.

## REC150AB 3 CREDITS 3 PERIODS Outdoor Living Skills

Camping and outdoor skills including types of camping, equipment selection and use, cooking and fire building, camp programs, backpacking, and safety. Prerequisites: None.

#### REC250 3 CREDITS 3 PERIODS

#### Recreation Leadership

An examination of roles and methods of leadership in leisure services settings. Overview of theories and models of leadership, group dynamics, participant motivation, communication, and face-to-face leadership. Exploration of leadership contexts, including coaching and officiating sports, leading community groups and volunteers, working with persons in various life stages and with varying abilities, and leading different recreation activity areas. Prerequisites: None.

## Religious Studies (REL)

REL243 3 CREDITS 3 PERIODS

### 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.

## REL270 3 CREDITS 3 PERIODS Introduction to Christianity

The nature and content of the Christian tradition developed over time, with overview of the New Testament, major historical trends and figures, major Christian ideas and practices, and survey of denominations. Prerequisites: None.

## Sign Language (SLG)

SLG101 4 CREDITS 4 PERIODS

### American Sign Language I

Introduction of principles, methods, and techniques for communicating with deaf people who sign. Development of expressive and receptive sign skills, manual alphabet, numbers, and sign vocabulary. Overview of syntax, grammar, and culture related to American Sign Language (A.S.L.). Prerequisites: None. SLG103 suggested as a corequisite but not required.

#### SLG102 4 CREDITS 4 PERIODS

### American Sign Language II

Continued development of knowledge and language skills for communicating with deaf people who sign. Includes numbers, fingerspelling, and culture. Emphasis on enhancement of receptive sign skills and continued development of expressive sign skills. Application of rudimentary, syntactical, and grammatical structure stressed with continued development of sign vocabulary. Prerequisites: SLG101, with a grade of "C" or better, or permission of department/division.

### SLG103 1 CREDIT 1 PERIOD

#### Introduction to Deafness

History and development of American Sign Language and English codes. Overview of education for hearing-impaired children. Common adaptive devices used by this special population. Prerequisites: None.

## Social Work (SWU)

SWU102 3 CREDITS 3 PERIODS

#### Introduction to Social Work

An introduction to the fields within the area of social work through a study of the disciplines of social case work, social group work, and community organization. Opportunities to experience the various techniques of practice within each discipline. Required for students enrolled in the associate degree program of the social work curriculum. Prerequisites: Eligibility for ENG101 and CRE101.

### SWU280 3 CREDITS 3 PERIODS

Working with Juvenile Delinquents

Concepts of delinquency and strategies for treatment of juvenile delinquents. Legal and ethical issues which arise. Prerequisites: SOC101 or permission of program director.

## Sociology (SOC)

SOC101 3 CREDITS 3 PERIODS

### Introduction to Sociology

Fundamental concepts of social organization, culture, socialization, social institutions and social change. Prerequisites: None.

### SOC157 3 CREDITS 3 PERIODS

### Sociology of Marriage & Family

The study of courtship, marriage, and family patterns, their historical development, their adaptation to a changing culture, and their impact on individuals. Prerequisites: None.

## Spanish (SPA)

SPA055 1 CREDIT 1 PERIOD

#### **Fundamentals of Spanish Grammar**

Introduces basic concepts of Spanish pronunciation and grammar for successful study of the language. Emphasis on grammar, sentence structure, and practice of simple dialogues. Prerequisites: None.

### SPA101 4 CREDITS 4 PERIODS

### Elementary Spanish I

Basic grammar, pronunciation and vocabulary of the Spanish language. Includes the study of the Spanish-speaking cultures. Practice of listening, speaking, reading, and writing skills. Prerequisites: None.

SPA102 4 CREDITS 4 PERIODS

### Elementary Spanish II

Continued study of grammar and vocabulary of the Spanish language and study of the Spanish-speaking cultures. Emphasis on speaking, reading, and writing skills. Prerequisites: SPA101 or departmental approval.

SPA115 3 CREDITS 3 PERIODS

### **Beginning Spanish Conversation I**

Conversational Spanish. Basic sentence structure, pronunciation and vocabulary necessary to develop speaking ability in Spanish. Designed for students seeking speaking and listening abilities with little emphasis on grammar. Prerequisites: None.

SPA116 3 CREDITS 3 PERIODS

### **Beginning Spanish Conversation II**

Continued development of speaking and listening skills for effective communication in Spanish. Prerequisites: SPA115 or departmental approval.

SPA117 3 CREDITS 3 PERIODS

### Health Care Spanish

Basic conversational Spanish for health care workers or students. Emphasis on basic sentence structure, pronunciation and vocabulary used in health care settings. Prerequisites: None.

SPA201 4 CREDITS 4 PERIODS Intermediate Spanish I

Continued study of essential Spanish grammar and Spanish-speaking cultures. Continued practice and development of reading, writing, and speaking skills in Spanish. Emphasis on fluency and accuracy in spoken Spanish. Prerequisites: SPA102, two years of high school Spanish, or departmental approval.

SPA202 4 CREDITS 4 PERIODS

### Intermediate Spanish II

Review of grammar, continued development of Spanish language skills with continued study of the Spanish-speaking cultures. Prerequisites: SPA201 or departmental approval.

SPA225 3 CREDITS 3 PERIODS

### Intermediate Spanish Conversation I

A continuation of SPA116. Continued development of skills in conversational Spanish. A review of the major grammatical and pronunciation problems. Prerequisites: SPA116, SPA102 or departmental approval.

SPA226 3 CREDITS 3 PERIODS

### Intermediate Spanish Conversation II

A continuation of SPA225. Continued development of skills in conversational Spanish with a review of grammatical problems. Prerequisites: SPA225, two years Spanish or the equivalent or departmental approval.

SPA235 3 CREDITS 3 PERIODS

### Advanced Spanish Conversation I

Continued development of skills in conversational fluency. Class conducted completely in Spanish. Prerequisites: SPA226 or equivalent or departmental approval.

SPA236 3 CREDITS 3 PERIODS

### Advanced Spanish Conversation II

Further development of skills in conversational fluency. Grammar presented only to clarify student errors. Prerequisites: SPA235 or equivalent or departmental approval.

SPA265 3 CREDITS 3 PERIODS

### Advanced Spanish I

Introduction and study of Spanish and Spanish-American literature. Selected readings from most Spanish-speaking countries. All discussions, oral reports, and written assignments are in Spanish. Prerequisites: SPA202 or departmental approval.

SPA266 3 CREDITS 3 PERIODS

### Advanced Spanish II

Further study of Spanish and Spanish-American literature. Reading selections from most Spanish-speaking countries. All oral reports, discussions, and written reports in Spanish. Graduated level of difficulty from the literature studied in SPA265. Prerequisites: SPA265 or departmental approval.

## Telecommunications (TCM)

TCM108 3 CREDITS 5 PERIODS

#### Video Production

Video production technology including ENG & EFP styles and equipment usage. Corporate, cable, and broadcast applications. Basic production techniques in scriptwriting; single camera film style shooting; lighting, audio recording; and editing; post-production techniques, production personnel and their roles, budgeting and copyright issues. Prerequisites: None.

TCM111 **3 CREDITS** 3 PERIODS

### Screenwriting I

Provides an introduction to screenwriting for feature films. Prerequisites: None.

## Theater (THE)

THE 111 3 CREDITS 3 PERIODS

### **Introduction to Theatre**

A survey of theatre, including basic elements and principles of production, styles, and/or historical perceptions of theatre, dramatic literature, and criticism. Prerequisites: None.

#### **THE118 3 CREDITS** 3 PERIODS

### Playwriting

Practice and study of theories and techniques of writing for the stage; creating characters, dialogue, and plot for monodramas, scenes, and plays. Prerequisites: None.

#### **THE205 3 CREDITS** 3 PERIODS Introduction to Cinema

Survey of the history and development of the art of motion pictures, including criticism of aesthetic and technical elements. Prerequisites: None.

#### **THE206 3 CREDITS** 3 PERIODS Introduction to Television Arts

History and development of electronic media and its impact on popular arts. Prerequisites: None.

#### THE220 3 CREDITS 3 PERIODS Modern Drama

Analysis of dramatic literature studied within political, historical, and cultural contexts and examined from the perspective of the playwright's structure and style. Prerequisites: ENG101 or ENG107 or equivalent.

#### **THE260 3 CREDITS** 3 PERIODS Film Analysis

Understanding and enjoyment of film and its correlation to literature, art, music, and other disciplines. Prerequisites: None.

## **Theater Performance/ Production (THP)**

THP112 **3 CREDITS 4 PERIODS** Acting I

Fundamentals techniques and terminology of acting through physical and vocal expression, improvisation, and monologue and scene work. Emphasis on characterization. Prerequisites: None.

THP115 **3 CREDITS** 4 PERIODS

### Theatre Makeup

Purposes, materials, and techniques of theatrical makeup. Prerequisites: None.

#### THP201AA 1 CREDIT 2 PERIODS Theatre Production I

Designed to give college credit to the cast and technical production crews of college theatre productions. May be repeated for up to a maximum of four (4) credits. Prerequisites: None.

#### THP201AB 2 CREDITS 4 PERIODS Theatre Production II

Designed to give college credit to the cast and technical production crews of college theatre productions. May be repeated for up to a maximum of four (4) credits. Prerequisites: None.

#### **THP212 3 CREDITS** 4 PERIODS Acting II

Fundamental techniques of acting through script analysis, rehearsal, and performance. Prerequisites: THP112 or departmental approval.

#### **THP213** 3 CREDITS **5 PERIODS**

#### Introduction to Technical Theatre

Procedures of technical theatre production and demonstration. Topics include design and construction of scenery; lighting and properties. Prerequisites: None.

#### **THP216 3 CREDITS 4 PERIODS Beginning Stage Lighting**

Basic theories and methods of stage lighting for all production types. Emphasis on technical/theoretical facts, artistic/design concept development, and "teamwork" structure of theatre. Examines stage lighting optics, instrument selection and application, color theory, circuiting and control systems, and basic design. Prerequisites: THP213 or permission of instructor.

#### **THP241** 3 CREDITS 3 PERIODS

#### Performance of Literature

The study, analysis, and preparation for performance of prose, poetry, and dramatic literature. Preparation of material for public audiences. Prerequisites: ENG101 or ENG107 or equivalent.

## Total Quality Management (TQM)

TQM101 3 CREDITS 3 PERIODS

### 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.

## Virtual Reality Technologies (VRI)

VRT100 1 CREDIT 1 PERIOD

### Survey of Virtual Reality Technology

Introduction to virtual reality technologies and its uses. Overview of the various hardware, software, and virtual environments used in developing and delivering virtual reality. Emphasis on how to understand the techniques and potential of virtual reality in today's society. Prerequisites: None. Windows operating system experience recommended but not required.

#### **VRT210** 2 CREDITS 4.5 PERIODS Virtual Reality Real-Time Modeling I

Techniques for creating highly optimized, interactive, real-time, three-dimensional models for use in realtime application(s) and in visual simulation environment(s).. Prerequisites: (Windows operating system experience or BPC/CIS121AE) and VRT100, or permission of instructor.

#### 2 CREDITS 4.5 PERIODS VRT211

### Virtual Reality Real-Time Modeling II

Advanced techniques for creating highly optimized, interactive, real-time, three-dimensional models for use in real-time application(s) and in visual simulation environment(s). Prerequisites: VRT210 or permission of instructor...

#### **VRT230** 2 CREDITS 4.5 PERIODS

### Three-Dimensional Haptic Modeling I

Three-dimensional modeling techniques using haptic technology to create three-dimensional models to optimize form with function with direct model interaction for use in animation, simulation, multimedia,

and industrial environments. Prerequisites: (Windows operating system experience or BPC/CIS121AE) and VRT100, or permission of instructor.

#### VRT231 2 CREDITS 4.5 PERIODS

### Three-Dimensional Haptic Modeling II

Advanced three-dimensional modeling techniques using haptic technology to create three-dimensional models to optimize form with function with direct model interaction for use in animation, simulation, and multimedia, and industrial environments. Prerequisites: VRT230 or permission of instructor.

#### VRT240 2 CREDITS 4.5 PERIODS

### Virtual Reality Real-Time Simulation I: EON

Authoring techniques for developing real-time, interactive applications for use in visual simulation environments. Prerequisites: VRT211, or VRT231, or permission of instructor.

VRT290AA 1 CREDIT 6 PERIODS VRT290AB 2 CREDITS 12 PERIODS 3 CREDITS VRT290AC 18 PERIODS

### Virtual Reality Internship

Work experience in business or industry. Prerequisites: Permission of instructor.

## Wellness Education (WED)

1 CREDIT 2 PERIODS

### Physical Conditioning for Massage Therapists

Physical fitness necessary for current and prospective massage therapists. Includes physical fitness and workout techniques as related to performing massage therapy; individual conditioning strategies, and basic nutritional guidelines. Prerequisites: None.

#### **WED144** 3 CREDITS **5 PERIODS**

### Strategies in Diabetes Management

Introduction to strategies in diabetes mellitus management and prevention for individuals diagnosed with diabetes and their caretakers. Includes a physical activity component. Prerequisites: None.

#### **WED145** 3 CREDITS 3 PERIODS Spirituality and Aging

Exploration of the spiritual dimensions of aging; relationship of major life tasks and transitions to spirituality; exploration of conscious aging, including a literary analysis; reflective and contemplative tools used in conscious aging; interrelationships between wisdom, ritual, and spirituality; and development of a new vision of aging. Prerequisites: None

3 PERIODS

#### WED151 2 CREDITS 2 PERIODS

#### Overview of Alternative Medicine

Definition of health; exploration of mind-body-spirit connection in health; various therapeutic modalities; identification of strengths and limitations of alternative therapies. Also includes development of ability to critically review written material in the alternative therapy area. Prerequisites: None.

#### WED156 1 CREDIT 1 PERIOD Humor and Play

Physiological, psychological, emotional, and intellectual effects of humor and play; suggestions for planning periods of play and incorporating it into one's life. Prerequisites: None.

#### WED162 1 CREDIT 1 PERIOD Meditation and Wellness

Physiology of meditation and its effects on physical and mental health; scholastic abilities and interpersonal relationships; differentiation between meditation and other relaxation techniques. Prerequisites: None.

#### **WED165** 2 CREDITS 2 PERIODS Overview of Massage Therapy

History of massage; overview of bodywork systems; benefits and indications of massage; legal requirements for practice in Arizona. Prerequisites: None.

#### WED170 1 CREDIT 1 PERIOD Principles of Homeopathy

Origins of homeopathy; key concepts; perceptions of disease; schools of homeopathy; scientific studies; preparation of remedies; case taking. Prerequisites: None.

#### WED172 1 CREDIT 1 PERIOD Overview of Herbal Remedies

History and evolution of herbs for healing applications. Preparation, usage, and effects of certain herbs used for healing purposes. Basic literature review skills in the area of herbal medicine. Prerequisites: None.

#### WED176 1 CREDIT 1 PERIOD

#### Flower Essences

Healing properties of Bach flower remedies; Bach's development of remedies and his philosophy of healing; use and preparation of a variety of flower essences. Prerequisites: None.

#### WED210 2 CREDITS Sports Massage

Purpose, benefits, and contraindications of sports massage; principles of sports physiology; massage techniques, applications, and procedures; treatment of injuries. Prerequisites: WED165 and WED230, or permission of Program Director.

#### **WED215** 2 CREDITS **5 PERIODS** Self-Care for Massage Therapists

Energetic dynamics of human relationships; elements that influence physical, mental, emotional, and spiritual wellness; techniques for body/mind healing. Emphasis on self- awareness and self-healing. Assessing, writing, and participating in personalized programs of cardiovascular fitness, weight control, and muscular strength and flexibility. Prerequisites: None.

#### **WED218** 1 CREDIT 1 PERIOD Aromatherapy

Physiology of aromatherapy; methods of use; preparation of oils; uses in sports, beauty care, massage, child care, health care, at work, and in the home. Prerequisites: None.

#### WED230 6 CREDITS 9 PERIODS Therapeutic Massage Practices I

Principles of professionalism, ethics, and legalities. Includes use of terminology related to massage therapy. Applications, indications, and contraindications of the nine strokes of Swedish massage. Study of the human osseous and muscular structure. Emphasis on normal movement patterns, origins, insertions, and functions of the muscular system. Prerequisites: (BIO160 and WED165) or permission of Program Director.

#### WED231 6 CREDITS 9 PERIODS Therapeutic Massage Practices II

Refined application of the nine strokes of Swedish massage and contraindications to avoid. Application of advanced principles and techniques of trigger point therapy, muscle energy technique, stretching, hydrotherapy protocols, hot and cold applications, reflexology, and corporate massage. Study of the human osseous and muscular structure. Emphasis on normal movement patterns and the origin, insertion, and function of the muscular system. Prerequisites: WED230.



## wed232 6 CREDITS 10 PERIODS Therapeutic Massage Practices III

Refinement and integration of technical skills, psychosocial competencies, and role identity. Exploration of techniques to assess and facilitate range of motion and function; purpose, benefits, indications, and contraindications of therapeutic massage for specific neuro-musculoskeletal disorders/injury and special populations. Application of massage techniques with therapists pre- and post-client evaluations of the client. Adaptation of massage techniques for special populations. Prerequisites: WED231. Corequisite: WED250, or

## WED250 3 CREDITS 6 PERIODS Clinical Practicum

permission of Program Director.

Application of fundamental massage techniques. Prerequisites: WED231. Corequisites: WED232, and permission of Program Director.

## wed262 2 credits 3 periods Acupressure/Shiatsu I

Overview of the principles of Traditional Chinese Medicine and the Meridian System; history, purpose, benefits, indications, and contraindications of Acupressure/Shiatsu. Therapeutic techniques and applications of Acupressure/Shiatsu; pre and post evaluations of intervention procedures. Prerequisites: WED250, and permission of instructor.

## WED264 2 CREDITS 3 PERIODS

### Acupressure/Shiatsu II

Therapeutic techniques and applications for Anma massage used to disperse heat and stagnant "Ki;" hands-on techniques to balance Kyo and Jitsu energy; meridian rebalancing stretches and visualizations for release of acute/chronic muscle tension. Prerequisites: WED262, or permission of instructor.

## wed297AC 3 CREDITS 3 PERIODS Special Topics: Therapeutic Massage

Explores a special topic related to therapeutic massage. Topics vary and include concepts relevant to those pursuing careers in therapeutic massage. Prerequisites: None.

## Writing Across Curriculum (WAC)

WAC101 3 CREDITS 3 PERIODS

### Writing Across the Curriculum

Emphasis on the elements of sentence and paragraph structure, the four stages of the writing process for personal-based and expository. Extensive journal entries, editing and revision of written assignments. Prepare and write multi-paragraph essays. Assigned readings, participation in extensive workshops and groupwork. Prerequisites: None.

## Information Regarding Special Courses Not Listed in the College Catalog

## Cooperative Education (courses numbered 296)

Work-college experiences that involve the combined efforts of educators and employers to accomplish an outcome related to the career objectives of the students. Prerequisites: None. Corequisites: Must be concurrently enrolled in at least one class related to job/co-op subject area; must maintain an enrollment ratio of two (2) hours of credit in other courses for every one (1) hour of Cooperative Education credit (excluding radio and television); a maximum of sixteen (16) hours of Cooperative Education credit is allowable in a college program.

### Special Projects (courses numbered 298)

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.



# Administration, Faculty, Management and Staff



## **Administration**

## Maricopa Community College Governing Board

Maricopa County Community College District District Support Services Center 2411 West 14th Street Tempe, Arizona 85281-6942 (480) 731-8889

### Dr. Donald R. Campbell

Reelected 2001-2007 District Precinct #5 Phoenix, South and West

#### Mr. Ed Contreras

Elected 2001-2007 District Precinct #1 East Valley

#### Mr. Gene Eastin

Elected 1996-2003 District Precinct #4 Phoenix North and West to Wickenburg

#### Mrs. Linda B. Rosenthal

Reelected 1996-2003 District Precinct #3 North Central Maricopa County including New River

### Ms. Nancy Stein

Reelected 1999-2005 District Precinct #2 Scottsdale, Northeast Phoenix and East Valley

# Maricopa Community College District Administration

2411 West 14th Street Tempe, Arizona 85281-6942 (480) 731-8000

Dr. Rufus Glasper acting chancellor

Dr. Anna Solley vice chancellor, academic affairs

Mr. Ron Bleed vice chancellor, information technologies

Dr. Steven Helfgot vice chancellor, student development and community affairs

Ms. Debbie Thompson acting/associate vice chancellor, business services

Dr. Jose Leyba associate vice chancellor, human resources

# Chandler-Gilbert Community College Administration

#### HESSE, Maria L.

#### PRESIDENT

B.S., M.B.A., Arizona State University; M.Ed., Northern Arizona University.

#### BARTHOLOMEW, Lois M.

#### **DEAN, STUDENT SERVICES**

A.A., Phoenix College; B.S., Arizona State University; M.A., Northern Arizona University.

### GARZA, Librado (Lee)

#### DEAN, ADMINISTRATIVE SERVICES

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### **GUERRIERO**, William

#### **DEAN, INSTRUCTION**

B.A., Aquinas College;

M.S., Central Michigan University.

#### CRAWFORD III, William

#### ASSOCIATE DEAN, OCCUPATIONAL EDUCATION

B.S., Arizona State University; M.Ed., Northern Arizona University.

### MONSOUR, Earl R.

#### ASSOCIATE DEAN, TECHNOLOGY

Certificate in Computing Technology, Community College of the Air Force; B.S.B.A., M.B.A., Avila College.

## **Faculty**

### ADAMSON, Scott

#### MATHEMATICS

A.A., Itasca Community College; B.S., M.A., Northern Arizona University.

#### ALVAR, Brent A.

### WELLNESS, HEALTH AND PHYSICAL EDUCATION

B.S., M.S., Ph.D. Arizona State University.

### BAKER, Patricia

### COMPUTER INFORMATION SYSTEMS AND

#### COMPUTER SCIENCE

B.S., University of Michigan; M.C.S., Arizona State University.

### BANJOKO, Adebiyi

#### BIOLOGY

A.S., Community College of Allegheny County B.S., Ph.D., Arizona State University.

#### BARRIOS, René

#### COUNSELING

A.A., Arizona Western College; B.A., M.Ed., University of Arizona; Ed.D., Arizona State University.

### BATES, Brad

#### CHAIRPERSON, SCIENCE DIVISION

#### CHEMISTRY

B.S., M.Ed., Arizona State University.

### BINGHAM, Cynthia F.

#### SPANISH

Certificate, Latin American Studies, Arizona State University; B.A., Brigham Young University; M.A., Arizona State University.

### BORING, Steve

#### **AVIATION**

A.A., St. Petersburg Junior College.

#### CANHAM, Jeanne

#### **MATHEMATICS**

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### CHAVEZ, Ernest G.

#### **MATHEMATICS**

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#### CHRISTIAN, D.J.

#### COMPUTER INFORMATION SYSTEMS

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### CHUPPA-CORNELL, Kimberly

#### **ENGLISH AND HUMANITIES**

B.A., M.A., Arizona State University; Ed.D., Northern Arizona University.

#### CLARK, Diane

#### **ENGLISH AND HUMANITIES**

B.A., Louisiana State University; M.A., Arizona State University.

### COX, Trey

#### **MATHEMATICS**

B.A., M.S., Concordia University Wisconsin.

### DASSINGER, John

#### GEOLOGY

B.A., M.N.S., Arizona State University; Ed.S., Nova University.

#### DAVENPORT, Pamela G.

### CHAIRPERSON, LANGUAGES AND HUMANITIES

B.A., M.A., Arizona State University.

#### DENTON, Marcus L.

#### MUSIC

B.A., Arizona State University; M.M., Brigham Young University.

#### DOHERTY, Robert

#### COMMUNICATION

A.A.S., Clinton Community College;

A.A.S., Community College of the Air Force;

B.A., State University of New York at Plattsburgh;

B.A., Columbia College;

M.A., University of Northern Colorado.

#### EDWARDS, Virginia

#### **ENGLISH AS A SECOND LANGUAGE**

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#### FAGAN, Sharon O.

#### **EDUCATION**

B.A.E., M.A., Arizona State University; M.Ed., Northern Arizona University.

### FORD, Sidney E.

#### ACCOUNTING

B.B.A., Wichita State University; M.B.A., Arizona State University; C.P.A.

#### GARZA, Librado (Lee)

## ACCOUNTING, GENERAL BUSINESS, MARKETING AND MANAGEMENT

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### GAUMONT, Susan A.

#### NUTRITION

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### GAUTREAU, Wayne G.

#### **COMPUTER SCIENCE AND MATHEMATICS**

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#### GRAFEL, Deidre

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#### GUO, Yi Q.

#### CHEMISTRY

B.S., University of Science and Technology of China; M.S., University of California, Los Angeles; Ph.D., University of Iowa.

#### HEATH, Darby

#### ANTHROPOLOGY AND SOCIOLOGY

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#### HOLMES, William G.

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#### HORN.Heather

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#### **HUTTO, Clarence (Mike)**

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### JARVIS, Ana C.

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#### JESSE, Gordon L.

#### THEATER

A.A., Phoenix College;

B.A., M.A., Arizona State University.

### JESSE, Sally Sugden

#### DANCE

B.A., M.A., Mills College.

### JOHNSON, Patti N.

#### JOURNALISM AND MASS COMMUNICATIONS

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#### KHALIL, Bashir M.

#### **AVIATION**

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B.S., M.S., Indiana State University.

### KIRKPATRICK, Kelley

### CHAIRPERSON, COMMUNICATIONS AND FINE

#### **ARTS**

#### **PHOTOGRAPHY**

B.A., Humboldt State University;

M.F.A., Arizona State University.

### KRISHNASWAMY, Sujatha

#### CHEMISTRY

B.S., University of Madras;

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#### LARSON-BIRNEY, Brenda J.

### EDUCATION, BUSINESS, AND COMPUTER

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#### MATAR, Bassam

#### **ENGINEERING**

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### McCORD, R.A.

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#### McCOURT, Joseph J.

#### AIRCRAFT MAINTENANCE TECHNOLOGY

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### McGLASSON, Mary J.

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### MILLER, Larry A.

#### LIBRARY

B.A., Eastern Illinois University;

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### MILLER, Shirley

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#### MOSER, Teri

#### **ENGLISH**

B.A., M.A., Utah State University;

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#### **MULLANEY**, William

#### **ENGLISH AND HUMANITIES**

B.A., University of Virginia;

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Ph.D., Tulane University.

### MUÑOZ, David

#### PHILOSOPHY AND RELIGIOUS STUDIES

A.A., Southwestern College; B.A., Grand Canyon University; M.A., Fuller Theological Seminary; M.A., Arizona State University.

### MUNRO, Regina

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#### **WELLNESS**

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### O'MARA, Kathleen

#### **ART HISTORY**

B.A., Oakland University; M.A., Wayne State University.

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B.S., M.S., University of Texas at El Paso; B.S., D.V.M., Texas A&M University.

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#### **SCIENCES**

#### HISTORY

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#### **MATHEMATICS**

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### SANDOVAL, Ralph

#### READING

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#### SAUCEDO, Kathy

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#### **MATHEMATICS**

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### STONE, Harvey

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AIRCRAFT MAINTENANCE TECHNOLOGY

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B.A., Brigham Young University; M.A., University of Arizona.

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#### PSYCHOLOGY

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### SWAN, Gregory C.

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### UNDERWOOD, Jacqueline M.

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#### URBANSKI, Cathy

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#### AR

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#### INSTRUMENTAL MUSIC

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**CONKRIGHT, Alice (1981-2003)** 

**ENGLISH AND HUMANITIES** 

B.A., M.A., Syracuse University;

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## Management

ADDICOTT, Floyd

MAINTENANCE SUPERVISOR

ALLEN, Mary Kaye

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BASHA, Sherri

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BERGER, Dave S.

SYSTEMS PROGRAMMER II

BERRY, Michael

SYSTEMS PROGRAMMER I

A+.

BULLOCK, Douglas B.

**DIRECTOR, FINANCIAL AID** 

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CARPENTER, Joy

SUPERVISOR, HELP DESK

B.S., Colorado State University.

DAY, Mary

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B.S., Arizona State University.

WARD, Arnette S. (1971-2002)

**PRESIDENT** 

A.A., Edward Waters Junior College;

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M.A., Arizona State University.

ZABEZENSKY, Ferne L. (1974-1997)

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#### FALLETTA, Eva

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FLURY, Sharon

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FOSTER, Tom

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GARCIA, José

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A.A., Mesa Community College.

GARRIDO, Jaime

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B.A., Universidad Central Del Este;

M.B.A., University of Phoenix.

GRACI, Mary

DIRECTOR, GRANTS

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M.Ed., Northern Arizona University.

### GREEN, Barbara

## ADMINISTRATIVE ASSISTANT II - COLLEGE RISK MANAGEMENT

A.A., Mesa Community College; B.A., Northern Arizona University.

### GREENE, Michael

**DIRECTOR**, **STUDENT LIFE/LEADERSHIP** B.S., Arizona State University.

### **KEEFE**, Timothy

## DIRECTOR OF COLLEGE TECHNOLOGY, MEDIA SERVICES

A.A., Bellevue Community College; B.A., M.Ed., University of Washington.

### MASON, Jeffrey

#### DIRECTOR, ATHLETICS

Certification in Administration, Northern Arizona University; B.S., M.S., Arizona State University.

### MATUS, David

## MANAGER, SECURITY & BUILDING OPERATIONS; WILLIAMS CAMPUS

B.A., Grand Canyon University.

### MATYAS, Laura

## COORDINATOR, OFFICE OF ASSESSMENT AND NEW STUDENT ORIENTATION

B.A., Ottawa University.

### MESANKO, Margie

#### SUPERVISOR, COLLEGE EMPLOYEE SERVICES

Certificate of Completion in Accounting, Jefferson County Vocational Technical School; A.A., A.G.S., Chandler-Gilbert Community College.

### MUÑIZ, Diana

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### NICOL, Thomas E.

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#### PEARL, Irene

#### SUPERVISOR, ADMISSIONS AND RECORDS

B.A., Western Kentucky University; M.Ed., Northern Arizona University.

### PETERSON, Dean K.

COORDINATOR, INFORMATION TECHNOLOGY SERVICES; WILLIAMS CAMPUS AND SUN LAKES EDUCATION CENTER

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### POPE, Roy

#### PROJECT COORDINATOR

A.S., Moraine Valley Community College; A.A., B.S., Southern Illinois University; M.A., Governors State University.

#### REINEBOLD, Charles T.

COORDINATOR, MARKETING AND PUBLIC RELATIONS

A.A., Central Arizona College.

### RICHARDSON, Jodi

#### COORDINATOR OF DISABILITY SERVICES

B.A., Arizona State University M.Ed., Northern Arizona University; MT-BC.

### ROMANO, Ruth

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### SITTNER, Carolyn

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## Staff

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COMPUTER EQUIPMENT LEAD TECHNICIAN

#### AVERY, Pamela

OFFICE COORDINATOR I, STUDENT LIFE A.A., Eastern Arizona College.

#### AVILA, Daniel

BUILDING MAINTENANCE TECHNICIAN; WILLIAMS CAMPUS

AYALA, Margarita

CUSTODIAN

#### SLAMKA, Ron

#### SYSTEMS PROGRAMMER I

A.A., Chandler-Gilbert Community College; B.S., Arizona State University.

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#### WEAVER, Mark

DIRECTOR, ELECTRIC UTILITIES TECHNOLOGY PROGRAM; WILLIAMS CAMPUS

#### WICKHAM, Scott

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# Glossary of College Terminology

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## Glossary of College Terminology

### **Academic Load**

Also called academic load. The total number of credit hours taken in a term. Twelve credit hours is considered a full-time load.

### Academic Program Advisor

A designated staff member who has received training to provide students with academic information that will direct them to the appropriate classes to achieve their educational goals and enhance their academic success.

#### Admission

Acceptance into a college after the student has filed a completed Student Information Form with the Admissions, Records and Registration Office and has been admitted according to admissions criteria. Students who have been admitted are eligible to register for courses.

#### Alumnus/Alumna

A graduate of a college or university. (Plural: alumni/alumnae)

#### Assessment

Evaluation of students' present skills in English, reading, and mathematics using tests known as Assessment of Skills for Successful Entry and Transfer (ASSET). Scores are used as a guide for proper course placement so students can choose courses that match their skills. Such a match leads to greater success.

#### **ASSET**

See Assessment.

### Associate Degree

Degree awarded by community colleges after a student completes a specified number of course requirements and credit hours, generally a minimum of 60 semester credits. May be an Associate in Arts (AA), designed primarily for transfer to complete a baccalaureate degree; an Associate in Applied Science (AAS), designed primarily to enhance workplace skills and knowledge; or an Associate in General Studies (AGS), designed to fulfill students' goals of higher education.

#### Audit

An option for class registration in which the student pays to attend class but does not want to receive credit. Students sometimes choose to audit courses in which they do not wish to complete required assignments.

### Bachelor's Degree

A degree awarded by a four-year college or university. Generally requires completion of 120 semester credits. Also referred to as a baccalaureate degree (e.g., BA or BS).

#### Class Period

Time spent in class and/or lab each week. One period is equivalent to 50 minutes per week.

#### Class Schedule

A college publication that lists all courses offered during a semester, including dates and times of class meetings, names of instructors, buildings and rooms, credit hours, and other important registration information.

#### **Cocurricular Activities**

Also known as extracurricular. Activities, clubs, or organizations students may participate in above and beyond their academic courses.

#### Commencement

Also known as graduation. A ceremony during which colleges award certificates of completion and degrees to graduating students.

#### Continuous Enrollment

The process of registering for and completing courses during consecutive semesters, excluding summer sessions. Determines catalog year for graduation.

#### Corequisite

Specified conditions, requirements, or courses that must be completed at the same time as another course.

A faculty member professionally trained in counseling who helps students with educational, career, or personal concerns as well as goal setting and decision making.

#### Course

Counselor

A specific subject studied within a limited period of time, such as a semester, and taught by a faculty member. Also called course offering or class.

#### Course Fee

A charge for services, supplies, and/or materials for a course, in addition to tuition and fees for the course.

### Course Number

A three-digit code that identifies a specific course and indicates its level and sequence (e.g., 101 in ENG101).

#### Course Prefix

A three-letter code that identifies the subject area of a course (e.g., ENG in ENG101 indicating a course in English).

#### Course Selection Form

This form is used by students to list their course selections for a particular term. In most cases, an advisor must approve the courses and sign the form before a student can register.

### Course Title

The name of a specific course that indicates subject and content (e.g., First-Year Composition, title for English 101).

#### Credit Hour

The numerical unit of college credits earned for the satisfactory completion of a specific course. Also referred to as semester hours or units (e.g., 3 credit hours).

#### Curriculum

A planned sequence of courses for an academic or occupational goal. Also referred to as a program of study.

#### Division

A group of faculty who teach classes in related subjects, such as accounting, management and computer information systems in the Business Division.

### **Drop/Add Period**

A specified period of time at the beginning of a term when schedule changes (i.e., adding or dropping one or more classes) are allowed without a refund penalty. Courses added or dropped during the Drop/Add Period do not appear on students' transcripts.

#### **Electives**

Non-required courses that students may select to complete their program of study.

#### **Extended Probation**

A student on academic probation is placed on extended probation if they do not raise their cumulative grade point average to the required minimum standard. Enrollment is limited to six (6) credit hours for a period of one semester.

### **Faculty**

Instructors, teachers. Counselors and librarians are also faculty.

### **Final Exams**

Tests or exercises given at the end of a term that are often comprehensive; that is, they may include all material covered during the semester. The schedule of final exam dates and times for each term is included in the Class Schedule.

#### Financial Aid

Dollars available which help students attend college to complete their education. Includes grants, loans, scholarships, and work study funds. Sources are varied with funds coming from federal and state governments, colleges, private donors, and local agencies and organizations.

#### **Fiscal Services**

Also known as the Cashier's Office. Students may pay tuition and fees, course fees, and other encumbrances owed the college at the Fiscal Office.



#### **FTSE**

Full-Time Student Equivalents. Known as FTSE (Pronounced "Foot see").

#### **Grade Point**

The numerical value of a grade multiplied by the credit hours for a course (A=4 points; B=3 points; C=2 points; D=1 point). If, for example, a student earns an A in English 101 (3 credit hours), then the student earns 12 points: A=4 points x 3 (credit hours) = 12 points.

### **Grade Point Average**

Generally called GPA, grade point average is determined by dividing the total number of grade points earned by the total number of credit hours attempted. For example, 45 grade points divided by 15 credit hours earned = 3.0 GPA.

#### **Lower Division**

Normally freshman- and sophomore-level (100 and 200) courses offered by a college. Community colleges offer ONLY lower division courses. Four-year institutions also offer upper division courses, which are junior-level and senior-level (300 and 400) courses.

### Major

An area of concentrated study often for a specific degree or occupation, such as journalism, nursing, or aircraft maintenance.

### **New Student Orientation**

A session during which new students are introduced to academic programs, facilities, and services provided by a college.

#### Official Absence

Absence from class approved by the Dean of Student Services for students who are participants in an official college activity. Approved absence documentation must be presented by students to their instructors before the official absence. Students make arrangements to complete the work they will miss.

#### Pass/Fail

An option for class registration in which students choose to receive a grade of Pass or Fail in lieu of a letter grade (A, B, C, D, F). Students can earn credits towards graduation by passing these courses but the grades will not count in their GPAs. It is best to check with an advisor to make sure that Pass/Fail grades will transfer to another college or university.



#### Placement Test

See Assessment.

### **Prerequisite**

Specified conditions, requirements, or classes that must be completed before enrolling in a class. For example, ENG102 has a prerequisite of ENG101.

### **Probation**

A warning that a student is not in good academic standing. May be accompanied by restricted credit hour enrollment.

#### Recess

Holidays and the periods of time between academic semesters when classes are not in session.

### Registration

Actual enrollment of a student into specific courses after the student has been admitted to the college and has received academic advisement.

### **Required Course**

A course that a student must complete to meet certain goals or to complete a certain curriculum.

### Scholastic Suspension

Students on suspension from any accredited institution of higher education may appeal to the Admissions and Standards Committee or campus designee for permission to register. The student will be limited to twelve (12) credit hour unless approved by Admissions and Standards Committee.

#### Section Number

A unique, four-digit code used to identify each class section of each course offered. Section numbers are listed in the Class Schedule.

#### Self-Paced Classes

Also called open-entry/open-exit (OE/OE). Essentially self-study courses that permit students to set flexible schedules. Students may enroll in self-paced courses throughout most of a semester. Self-

paced courses are recommended for students who are self-motivated, are strong readers, have good problem-solving skills, can manage time well, and can set their own deadlines.

### Semester

Traditionally half an academic year, about 16 weeks in length. Fall semester begins in August and spring semester begins in January.

### **Subject Codes**

See Course Prefix and Course Number.

### **Syllabus**

One or more pages of course requirements that instructors give to students on the first day of class. The syllabus may include detailed information about a course, such as an instructor's grading system, attendance policies, and testing and assignment dates.

### **Transcript**

An official record of a student's college coursework that is maintained by the college registrar. Courses taken, grades, GPA, and graduation information are included on a transcript.

### **Transfer Credit**

Course credit that is accepted from or by another college or university.

#### Trial Schedule

A form on which students list their course selections in order to determine which combination of courses and class times works best during a particular term.

### **Tuition and Fees**

The cost per semester credit unit that students must pay for their college courses. Tuition and fees are determined by the Maricopa County Community College Governing Board.



### Tutoring

Additional learning assistance provided by tutors to students in individual or group sessions. Tutoring is centralized in the Learning Assistance Center.

### Withdrawal

Officially dropping any or all courses during a semester



# Appendix: Scholarship Donors





## **Scholarship Donors**

CGCC gratefully acknowledges the following scholarship donors for their support of our students:

- Clara Abbott Foundation
- Achievement in Mathematics, Engineering and Science (AIMES)
- ADAPT
- Adflex Solutions
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- Aldersgate United Methodist Church
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- Altrusa Club
- America West Airlines
- American Association of Airport Executives Foundation
- American Legion Auxiliary
- American Oil Chemists Society
- America's Junior Miss Scholarship Foundation
- Apache Junction Unified School District
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- Arizona Cinderella
- Arizona Cotton Ginners Association
- Arizona Elks Association
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- Arizona Food Marketing
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- Ashcroft Memorial Scholarship Fund
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- Bank of Commerce
- Barrick Goldstrike Mines

- Bashas', Inc.
- Ford Berry Portrait Studio
- Black Educational Task Force
- Bradshaw Mountain High School
- Bristol Bay Economic Development Corporation
- Buckeye Elks Lodge, No. 2686
- Camelback Design Group
- Caramel Community Integrated Arts School
- Casa Grande Union High School Foundation Scholarship
- Central Arizona College
- Central Phoenix Rotary Club
- Chalo's
- Chandler Airpark
- Chandler Arts and Crafts League
- Chandler Coalition for Civil and Human Rights
- Chandler Educational Foundation
- Chandler Elks Lodge #2429
- Chandler-Gilbert Community College English Faculty
- Chandler High School
- Chandler High School Booster Club
- Chandler Horizon Rotary Club
- Chandler Ojo Rojo Lions Club
- Chandler Regional Hospital
- Chandler Regional Hospital Auxiliary
- Chandler Republican Women's Club
- Chandler Rotary
- Chandler Service Club
- Chandler Unified School District
- Chick-fil-A
- Choral Parents Association
- The Circle K Corporation
- Citizen's Scholarship Foundation of America
- Coca-Cola Scholarship Foundation
- Columbus Foundation
- Communications Workers of America

- Community Church of Buckeye
- Community Kids
- James Comstock Memorial Scholarship
- Cooperative Office Education
- Delta and Pine Land Company
- Desert Club of Mesa
- Desert General Surgeons, LTD
- Millicent Joyce Dixon Memorial Scholarship
- Dobson High School
- Dougherty Foundation
- Eastern Arizona College Foundation
- Eastern Pinal County 4-H
- East Valley Chapter of ABWA
- East Valley Institute of Technology
- East Valley Hispanic Women's Association
- Elks National Foundation
- Emmetsburg Education Foundation
- Empire Southwest
- Equitable Insurance
- Experimental Aircraft Association Chapter 883
- F.A.C.S. ED
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- Gila Valley Rotary Club
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- Kodalak Area Native Association
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- Mancos School District
- Marsha Lewicki Scholarship
- Lincoln Foundation, Inc.
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- Maricopa Community Colleges Foundation
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- Mesa Foundation for Educational Excellence
- Mesa Public Schools
- Mesa Unified School District
- Mesquite Area Chamber of Commerce
- Mesquite High School Booster Club
- Miami Rotary Club

- 286
- Middletown Lions Club
- Miss America Pageant
- Miss Black Arizona Pageant
- Dr. Marvin Morrison
- Most Worshipful Prince Hall Grand Lodge
- Motorola Foundation
- Motorola Retirees
- Mountain Pointe Baseball Boosters
- Mountain Pointe High School
- Mountain View Booster Club (Toros)
- Nana Corporation
- The Navajo Nation
- Otto and Edna Neely Foundation
- Nevada Youth Baseball Association
- Robert Aqqaluk Newlin, Sr. Memorial Trust
- Nucor Corporation
- The Tommy Nunez National Hispanic Basketball Classic
- Ohio Elks Association
- O'Odham Tash
- Page Unified School District
- Palmer Lodge BPO Elks
- Pan American Golf Association
- Robert Pastor Memorial
- Father Joseph N. Patterson Foundation
- Payless Cashways, Inc.
- Phoenix Cotton Women
- Phoenix Scottish Rite Foundation, Inc.
- Phoenix Suns Charities
- Phoenix Union Partnerships
- Professional Aviation Maintenance Association
- Professional Chemicals Corporation
- Professional Secretaries International
- Pueblo de Laguna
- Pueblo Grande Museum Auxiliary
- George M. Pullman Education Foundation
- Queen Creek Unified School District
- Ray Chapter-Order Eastern Star
- Red Mountain High School
- Red Mountain High School Booster Club

- Roadway Package Systems
- Rotary Club of Gilbert
- Rural Metro Corporation
- Nancy Rutledge Memorial Fund
- Safford High School
- Salt River, Pima-Maricopa Indian Community
- Si Se Puede Foundation
- Sitnasuak Foundation
- Soroptimist International of the San Tans
- Southwest Airlines
- State Compensation Fund
- Sun Lakes Rotary Club
- Supima Association of America
- Temecula Valley High School
- Tempe Schools Credit Union
- Tempe St. Luke's Hospital
- Tohono O'odham Nation
- Top O'Texas Chapter of ABWA
- United Parent and Youth League
- United Way
- Urbanek/Levy Education Fund
- Valley Hope Association
- Valley of the Sun YMCA
- Vermont Incentive Grant
- VFW Post #1170 in Middletown, KY
- Arnette S. Ward Endowed Scholarship Fund
- Dr. Ronald Watras
- · West High School
- Westminster Village
- Thomas White Insurance
- Williams-Grand Canyon
- Women's Auxiliary to the M.O.C.
- Women's Sport Foundation
- Woodmen of the World
- Word of Grace
- Samuel S. Wurtzer Scholarship
- Young American Bowling Alliance
- Youth Singers Foundation
- Youth Together, Inc.

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# 2003-2004 Student Activities Calendar

### Fall Semester - 2003

August 16 Now Student Orientation
August 16 New Student Orientation
August 21 New Student Orientation
August 27
August 28Music at the Pavilion
August 25-29Welcome Week Activities
Voter Registration Week
September 2-3 Student Life Open House
Clubs and Organizations Fair
September 18 Coyote Gathering
September 19-21 Student Life Retreat
October 6
October 8-9
October 15Coyote Gathering
October 17-18 Into the Streets
October 25 Fall Play
October 25
November 17
November 20 Coyote Gathering
November 22
November 24-25 Thanksgiving Adopt-A-Family
Deliveries
December 15 Adopt-A-Family Gifts Due
December 17 Adopt-A-Family Gift Wrapping
December 18-19 Holiday Adopt-A-Family
Deliveries

### Spring Semester - 2004

January 10	New Student Orientation
	Welcome Week
	Blood Drive
·	Student Leaders' Spring Retreat
	Into the Streets
March 6-13	Spring Musical
March 27	
	Luau
April 7	Generations Prom
	Recognition Brunch

Note: Dates subject to change

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