

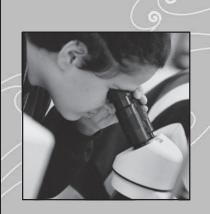
Welcome to Estrella Mountain

"Our service strategy,
'Your Success is Our
Success,' guides all our
daily interactions on
campus.

Whatever you come to Estrella Mountain to achieve, we know that the successful completion of your goals is the most important measure of success for our college."

- Homero López, Ph.D. Estrella Mountain President

Estrella Mountain Community College is accredited by The Higher Learning Commission of the North Central Association of Colleges and Schools. The Commission is located at 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504; telephone number (800) 621-7440.



ESTRELLA MOUNTAIN COMMUNITY COLLEGE HELPS YOU FIND YOUR OWN WAY TO SUCCESS

If you are just returning to school after a long absence or would just feel better if you had a little extra support – start this catalog with the Services and Resources section - page 11. You'll get a clear picture of how many people and programs are available to help you define and achieve your goals.

If you know you're headed for a four year degree – take a look at the Transfer Program offerings beginning on page 23. Then visit the Services and Resources section to access the student services specialist you'll need to help you design a successful program of study.



If you need to get a GED or improve your English, math or reading skills...check out all the offerings on pages 167,193, 207 and 220. These classes build a firm foundation of skills whether you choose to continue in college or enter the job market.

If you or your company are interested in Total Quality Management or customer service, or you know that more advanced computing or networking technology skills could give you that quality edge in your work environment...see the Training and Career Programs section on page 90, the computing offerings on page 182 and the Networking Technology offerings on page 179.



If you've recently retired and finally have the leisure time to pursue some lifelong interests - take a look at the computing offerings on page 180 or learn a new language, pages 220 and 221, or "get going" on keeping in shape, page 213-215.

If you're about to graduate from high school and are unsure of what lies ahead...see page 12. Getting more education can make the difference in your earning power for the rest of your life!

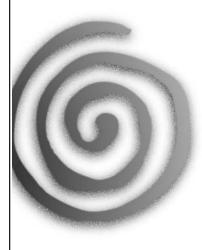
Bienvenidos a su colegio de la communidad de Estrella Mountain. Estrella Mountain Community College es una institucion educativa que le ofrece varios y distintos programas de instrucion al nivel colegial. Para obtener asistencia en español, llame (623) 935-8002.



TABLE OF CONTENTS

WELCOME	
WAY TO SUCCESS	2
MCCCD VISION, MISSION & GOALS	6
HISTORY & BACKGROUND	8
FACILITIESSERVICES AND RESOURCES	9-10
SERVICES AND RESOURCES	11
Enrollment Services	
Admissions and Records Services	12
Bookstore	13
Center for Teaching and Learning	14
Career Exploration	13
Counceling	14
Counseling Disability Resources and Services Financial Aid, Veterans' & Scholarship Services	14
Financial Aid. Veterans' & Scholarship Services	12
Cashier's Services	12
Food Services	14
Institutional Advancement	
Job Placement	
Student Life	16
Re-Entry Services	
Special Assistance	15
Transfer Information	
Veterans Services	12
Clubs	17
Honorary Groups	
Service Learning LEARNING SUPPORT	18
LEARNING SUPPORT	19
Library Resources	20
Library Resources Learning Enhancement and Writing Support Center NASA Center for Success in Math & Science	20
Assessment of Student Learning Outcomes	22
Assessment of Student Learning Outcomes AGECAND TRANSFER DEGREE PROGRAMS	24
General Graduation Requirements University Transfer and Pathways Chart Catalog Under Which a Student Graduates Arizona General Education Curriculum (AGEC)	78
University Transfer and Pathways Chart	24
Catalog Under Which a Student Graduates	81
Arizona deneral Education Curriculum (AGEC)	32
Associate in Arts (AA) Degree	36
Associate in Arts (AAFA) Fine Arts - Dance	40
Associate in Arts (AAFA) Fine Arts - Art	45
Associate in Arts (AAFA) Fine Arts - Theatre	
Associate in Science (AS) Degree	53
Associate in Business (ABus) Degree General Requirements (GR) Associate in Business (ABus) Degree Special Requirements (SR)	57
Associate in Business (ABus) Degree Special Requirements (SR)	61
Associate in Transfer Partnership (ATP)	65
Associate in General Studies Degree (AGS) Associate in Applied Science Degree (AAS)	67
Associate in Applied Science Degree (AAS)Academic Certificate	12
Interdisciplinary Stortelling	76
Interdisciplinary Stortelling	77
Teacher Education	83
TRAININGAND CAREER PROGRAMS	90
Administration of Justice Studies	91
Computer Applications Technology	93
Culinary Studies	95
Desktop Publishing	99
Hospitality/Hotel Management	100
Industrial Operations Technology	102
Information Security	104
Information Security Forensics	
Information Security Technology	107
Information Security Wireless Networks	109
Linux Networking Administration	110
Microsoft Networking Technology Microsoft Desktop Support Technology	114
Microsoft Product Specialist	118
Microsoft Systems Engineer	119
Networking Technology: Cisco	120
Nursing	
Oracle	126
Organizational Management	126
Power Plant Technology	128

Programming and System Analysis	131
Retail Management	
Small Business Management	
Teaching Assisting	130
Total Quality Management	
Web Development	141
SOUTHWEST SKILL CENTER	
Business Technology Program	
Health Care Core Curriculum Medical Assistant Program	
Nursing Assistant Program	
Practical Nurse Program	
MCCCD OCCUPATIONAL PROGRAMS	153
Health Care Integrated Educational Systems	. 161-164
ADDITIONAL CAMPUS PROGRAMS	165
Developmental Education	
Fitness Center Genesis West	
Honors Program	
inspire teach	
Learning for Life (Community Education)	170
Workforce Development	170
COURSE DESCRIPTIONS	171
Accounting / Aerospace Studies / Administration Of Justice	
Anthropology/Art/American Indian Studies	174
Art Humanities /Astronomy/Biology	
Building Safety & Construction Technology / Chemistry	1//
Communication	
Computing/Computer Aided Drafting/Computer Information Systems	
Counseling And Personal Development/Creative Writing	189
Critical Reading /Dance/Dance Humanities/ Early Childhood Education	190
Economics / Education / Education Professional Development/Electricity	
Electronics/English / English As A Second Language	
English Humanities	196
Facilities Management / French/Fire Science Technology	197
Food And Nutrition / General Business/General Technology	201
History / Hotel Restaurant Management	
Humanities/ Information Technology Security	
Management / Marketing / Manufacturing/Mass Communication/ Mathematics .	206
Microsoft Technology	209
Music: History/Literature / Music: Performance / Nursing	
Occupational Safety/Office Automation/Philosophy / Physical Education	213
Physical Science / Physical Geography/Physics	
Political Science / Power Plant Technology Psychology/Public Administration / Reading English As A Second Language	219 210
Reading Education / Religious Studies/Sign Language/Society and Business	. 210-215
Sociology	220
Small Business/Social Work / Spanish	221
Speech Language Pathology/Storytelling/Theatre / Theatre Performance	
Total Quality Management/ Translation & Interpretation	223
Welding Technology / Women Studies	223
MCCCD POLICIES AND PROCEDURES	225
MCCCD GOVERNING BOARD/ADMINISTRATION	281
EMCCADMINISTRATION	
Senior Management	
Administrative Deans/Directors	
Faculty	
Faculty Retirees	289
MAP OF ESTRELLAMOUNTAIN	293
INDEX	294 296
/3 E /3 E 354 (3/E 3 E /3 E E 4/E) E 3 A E 2	7116



MARICOPA COMMUNITY COLLEGES

MISSION

The Maricopa Community Colleges provide access to higher education for diverse students and communities.

We focus on learning through:

- University Transfer Education
- General Education
- Developmental Education
- Workforce Development
- Student Development Services
- Continuing Education
- Community Education
- Civic Responsibility
- Global Engagement

STRATEGIC GOALS

In order to carry out our Mission and achieve our Vision, the following are the Goals of the Maricopa Community Colleges Governing Board.

- I. Enhance the creation of a student-centered learning environment which:
 - fosters personal development
 - provides essential skills and relevant knowledge students need to achieve success
 - serves as an innovative model for cultural diversity in a changing global environment
 - ensures access to technology
- II. Collaborate with our many communities to understand and satisfy their needs and expectations to provide quality educational services within available resources. Particular emphasis must be given to the growing at-risk and senior communities.
- III. Proactively identify and resolve issues associated with the roles, responsibilities and authorities of federal, state and local governmental entities, as well as accrediting agencies.
- IV. Increase our financial stability by seeking and obtaining new sources of revenue in order to remain a competitive provider of quality educational services.
- V. Promote a work environment which fosters cooperation and collaboration among our faculty and staff and enables them to better serve our communities.



Chandler-Gilbert Community College 2626 E Pecos Rd Chandler, AZ 85225

Estrella Mountain Community College 3000 North Dysart Road Avondale, Arizona 85323-1000

GateWay Community College 108 N 40th St Phoenix, Az 85034

Glendale Community College 6000 W Olive Ave Glendale, AZ 85302

Mesa Community College 1833 W Southern Ave Mesa, AZ 85202

Paradise Valley Community College 18401 N 32nd St Phoenix, Az 85032

Phoenix College 1202 W Thomas Rd Phoenix, AZ 85013

Rio Salado College 2323 W. 14th Street Tempe, AZ 85281

Scottsdale Community College 9000 E Chaparral Scottsdale, AZ 85250

South Mountain Community College 7050 South 24th St Phoenix, AZ 85040

VISION

A Community of Colleges...Colleges for the Community

... working collectively and responsibly to meet the life-long learning needs of our diverse students and communities.

As the 10th and newest member of the Maricopa Community College District, Estrella Mountain is grounded in a tradition of educational excellence. **Estrella Mountain accesses** a wealth of experience and resources through its association with the larger District which currently is the largest community college district in the nation. **Contributing to the District** mission, Estrella Mountain Community College is committed to upholding the District's quality tradition while continually developing new and relevant paths of success for all in the Estrella Mountain family.

ESTRELLA MOUNTAIN COMMUNITY COLLEGE

MISSION

Estrella Mountain Community College provides opportunities for our students to achieve success in educational and personal goals.

We are an institution of higher education serving the West Valley communities through:

General Education
Transfer Education
Developmental Education
Workforce Development
Student Support Services
Community Education

MISSION GOALS

General Education

Provide the knowledge and abilities that enable students to achieve academic and personal goals.

Transfer Education

Provide quality transfer courses and programs that enable students to achieve success at four-year institutions.

Developmental Education

Provide quality developmental courses and programs that prepare students for educational and personal success.

Workforce Development

Provide specialized quality training, courses and services that meet the needs of businesses and individuals.

Student Support Services

Provide quality services and resources that meet the needs of students and support learning.

Community Education

Provide a wide variety of opportunities that meet the needs of life-long learners.

CORE VALUES

Our Core Values represent important elements of life at Estrella Mountain. They serve as enduring guides for all employees in meeting the needs of many communities.

Collaboration and Teamwork

Work together toward common goals Promote an ongoing exchange of ideas

Diversity

Recognize that perspectives are shaped by backgrounds and experiences Promote positive attitudes toward each other

Integrity

Commit to the highest principles of academic and professional standards

Creative and Continuous Learning

Commit to the success of students and employees Encourage innovation Promote a caring and supportive environment

Respect and Fairness

Treat each other with respect Act fairly and honestly with all

VISION

We will meet your needs and expand your aspirations through creative learning experiences.

Our environment emphasizes caring, teamwork, and flexibility.

In partnership with us, you will gain knowledge, abilities, and values essential to success in a highly complex and technological world.



We are committed to building better communities... one life at a time.





Estrella Mountain Community College is a nationally recognized leader within the Maricopa Community College District. Estrella Mountain provides educational and workforce training opportunities for residents of western metropolitan Phoenix. Increasing demands of student growth in the area have prompted the college to begin

looking at additional resources, education and training opportunities, technologies and facilities. The campus currently serves approximately 13,000 students annually and enrollment is anticipated to more to more than 29,000 students by 2014.

Since its inception, the college has been committed to developing a strong foundation of general education, forming close community and business partnerships, and providing a customer-driven approach to program development. This focus, along with unique strengths

> in strategic planning, campus design, public art and the integration of technology, have all contributed to Estrella Mountain's success.

> Estrella Mountain offers quality instruction, personal attention and a wealth of support services that are designed to help students define and achieve their academic, career and personal goals. Outstanding faculty and staff are committed to the college service strategy, "Your Success is Our Success."

Estrella Mountain has been designated a Hispanic Serving Institution (HSI) by the U.S.

Department of Education. The college is the site for the NASA Center for Success in Math and Science, which serves as the core driver of student success in mathematics and science studies. College faculty and staff are working to ensure that underrepresented groups – especially growing numbers of Hispanic youth in western Maricopa County – are fully prepared to pursue careers requiring mastery of these academic disciplines.

College training within businesses, agencies and municipalities contributes to the economic development of the West Valley. Partnerships with public schools, higher education and community organizations continue to expand offerings in teacher education, health care and culinary arts. The integration of the SouthWest Skill Center into Estrella Mountain has resulted in the development of a full continuum of workforce training and educational opportunities for West Valley residents.

In addition to offering Associate in Arts (AA), Associate in Elementary Education (AAEE), Associate in Science (AS), Associate in Business (ABUS), Associate in Applied Science (AAS) and Associate in General Studies (AGS) degrees, Estrella Mountain offers Associate in Transfer Partnership Degrees, in cooperation with Arizona State University Main and ASU West, in the areas of Accountancy, Computer Information Systems, Elementary Education, Global Business, Kinesiology, Psychology and Social Work. The college also offers the Arizona General Education Curriculum (AGEC), a 35-credit hour general education program that fulfills lower general education requirements at any transfer partner institution, as well as certificates of completion in a variety of occupational areas.

Estrella Mountain is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools.







Estrella Mountain opened the doors of its Avondale campus in the fall of 1992. The campus, at full build out, will encompass 135 acres. The college recently upgraded the campus's network infrastructure to include wireless technology, making it possible for students, staff and faculty to access the network and Internet virtually from any point on campus.

The Estrella Mountain facilities are beautifully designed and enhance the student experience. The architecture has been recognized through the prestigious Arthur E. Mann Award of Excellence for Architecture. Also, the integration of public art on campus earned the college a first place Crescordia Award by the Valley Forward Association of Phoenix. Additionally, awards of recognition have been received for the college's integration of technology, as well as for its energy conserving cogeneration system.

Estrella Hall

Named for the Spanish word for star, Estrella Hall, at the center of campus, serves as the campus' communications hub. Included in the 54,500 square foot building are an integrated library and computing center with the capacity of more than 200 microcomputer stations, electronic classrooms, a learning enhancement center, community conference rooms, study rooms and administrative and faculty offices.

Montezuma Hall

Montezuma Hall is named for the tallest mountain in the Sierra Estrellas. The building provides enhanced educational opportunities for Estrella Mountain's rapidly growing student population, housing classrooms; science laboratories; the NASA Center for Success in Math and Science; adjunct faculty offices; faculty offices; and an innovative Center for Teaching and Learning, a totally adaptable multimedia environment.

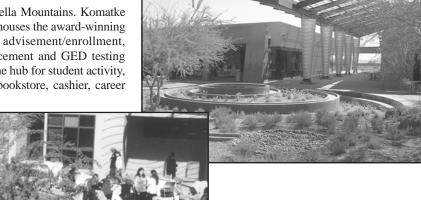


Komatke Hall

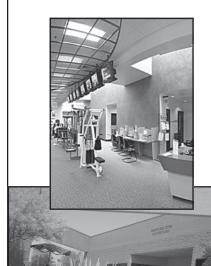
Komatke is the Native American term for the Estrella Mountains. Komatke Hall, comprised of three major building structures, houses the award-winning One-Stop Student Service Center, which offers advisement/enrollment, registration, financial aid, veterans' services, placement and GED testing and a self-directed information center. Serving as the hub for student activity, the building also houses a student life complex, bookstore, cashier, career

center, counseling services, security offices, food services at the Courtyard Grille, as well as administrative offices, and conference and production centers.

Additional enhancements include the Plaza Gallery, museum-quality art cases and a culinary arts education and training facility, featuring Regions Restaurant, with international cuisine prepared and serviced by students. The three structures of Komatke Hall border a beautifully landscaped outdoor gathering space, with a winding water feature as its nucleus.







Ocotillo Hall

Ocotillo Hall, the newest classroom complex, opened in Spring 2006 adding more than 32,000 square feet to the campus. The college's first major construction project of the 2004 Bond election, Ocotillo Hall features 22 learning studio classrooms, faculty offices, informal learning spaces and integration of the newest technology and advancements in learning space design. Distinctly different from traditional classrooms buildings, Ocotillo Hall incorporates flexible furnishings, revolutionary layouts, laptops for student use and wireless technology for group work and ease of movement.

Fitness Center

The Fitness Center features state-of-the-art equipment and amenities, creating an ideal environment for getting in shape. Features include a free-weight training area, the latest exercise equipment, a sprung-wood aerobics floor, popular group exercise classes and outdoor exercise spaces. The center also features shower and locker room facilities, as well as high-tech additions like televisions, and computer stations.

SouthWest Skill Center

The SouthWest Skill Center is located immediately north of Estrella Mountain's Fitness Center. The SouthWest Skill Center provides occupational training to students throughout the West Valley and develops specialized training programs to address industry needs such as Business Technology, Medical Assistant, Phlebotomy, Nurse Assistant and Practical Nurse. The building holds training classrooms, computer labs, a learning center and community resources for workforce development.

Physical Plant

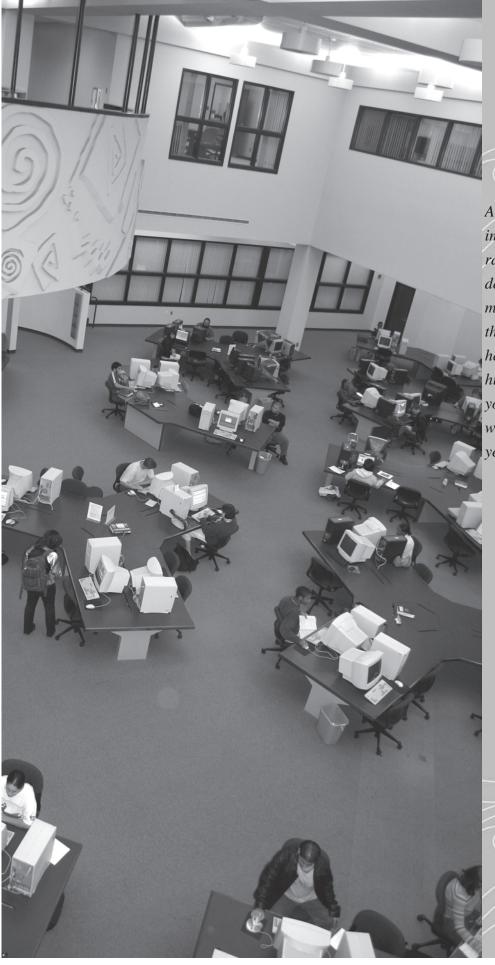
Reflecting the college's concern with energy conservation and the environment, Estrella Mountain has a 290-kilowatt cogeneration system in place. This system saves approximately 30 percent in energy costs per year. Estrella Mountain received the 1993 International Association of Energy Engineers Energy Project of the Year Award for this cogeneration system, as well as for other energy conservation methods.



The college's third phase of construction is currently underway – made possible by voter approval of the Maricopa Community Colleges 2004 capital bond program. New Phase III projects include the purchase of 100 acres of land in Buckeye for the development of additional educational facilities; remodeling to existing spaces and road and parking improvements. Completion of Phase III will provide 156,000 square feet of new construction and 44,000 square feet of remodeling to existing spaces. Other additions and improvements include: classroom buildings, science labs, an occupational programs building, SouthWest Skill Center, Central Plant and Estrella Hall expansions, a fine arts complex and technology, road and parking improvements.

Services and Resources

At Estrella Mountain, you immediately access a wide range of services and resources designed with your success in mind. Taking advantage of these services and resources will help you define and reach your highest goals, will contribute to your academic success, and will enhance your life for many years to come.







ENROLLMENT SERVICES

Komatke Hall B

www.estrellamountain.edu/studentservices/

Student Services at Estrella Mountain has always focused on a commitment to offer quality and convenience to the students and community. To further this commitment, an innovative way of providing service has been created called One-Stop Enrollment. As the name implies, the One-Stop Model gives students "one-stop" service by providing all services such as placement testing, advisement, financial aid, registration, quick stop services, and payment all in one area for student convenience.

Admissions and Records Services 623-935-8888

www.estrellamountain.edu/enrollmentservices/

- Process Student Information Forms as well as special admission
- Determines residency for tuition purposes and processes changes in residency for tuition purposes
- Process class registrations and drop/adds in person, phone or web
- Monitor academic probations and suspensions
- Process refund appeals
- Maintain official college transcripts for all students and responds to requests for transcripts and letters of enrollment verification
- Evaluate transcripts
- Evaluate graduation applications for degree and certificate completion
- Web registration available at www.emc.maricopa.edu/onlineservices
- Issue picture Student ID's
- Touch-Tone Phone Registration 480-731-8255
- Detailed guidelines covering registration are included in this catalog beginning on page 244 in the MCCD Policies and Procedures section.

Cashier Services 623-935-8888

www.estrellamountain.edu/enrollmentservices/

- Process tuition and fee payments
- Process refunds (when appropriate)
- Process and mail scholarship and financial aid checks
- Distribute payroll checks
- Provide check cashing services
- Provide student invoices

Financial Aid, Veterans' & Scholarship Services 623-935-8930 www.estrellamountain.edu/financialaid/

- Assist students with obtaining funding for their education including grants, loans, federal work-study and scholarships
- Assistance with completion of financial aid forms
- Provide information and application assistance for those eligible for Veteran's benefits
- Certify and monitor Veterans' enrollment
- For more information on Financial Aid and Veterans benefits please see page 248 and 250.

UNDECIDED? NEED HELP? CALL: (623) 935-8821 for free advisement



Advisement Services - 623-935-8597

www.estrellamountain.edu/advisement/

- Assist students with selecting classes appropriate to program of study
- Interpret placement testing scores
- Verification of graduation eligibility
- Unofficial evaluation of college transcripts
- Provide information on college and university transfer process
- Provide assistance with on-line resources such as Course Applicability System (CAS) - http://az.transfer.org/cas/
- Transfer Student Ombudsman (TSO)

Testing Services - 623-935-8860

www.estrellamountain.edu/testing/

- Administer placement testing English, Reading, Mathematics, and English as a Second Language
- Administer GED Exam

Quick Stop Services

- Accept financial aid and Veteran's documents
- Respond to basic financial aid and advisement questions



Bookstore Komatke Hall 623- 935-8875 www.efollet.com

The Estrella Mountain Bookstore is managed by Follett College Stores and provides textbook and academic supplies required by students and staff at Estrella Mountain. Additional gift and Estrella Mountain specialty items are available. Students may purchase computer software through the Bookstore at a special discount. Textbooks and software are also available through: www.efollett.com. Call the Bookstore directly for current hours of operation.

Career Exploration Komatke Hall 623- 935-8909

Career services are available to assist both current and prospective students in exploring and evaluating career opportunities that are consistent with their interests and educational goals.

Available assistance includes:

- Career and educational life planning sessions
- Occupational Information System software and internet web searches
- Career assessments to explore job opportunities in the world of work
- Resume writing, interviewing, and job-seeking seminars
- Post secondary employment/training directory information

Students are encouraged to visit Estrella Mountain Online Career Center at http://www.maricopa.edu/counseling/ to access information related to career development. Appointments with qualified counselors are free of charge. Attendance at free workshops and seminars is encouraged.





Center for Teaching and Learning Montezuma Hall 623-935-8070

The Estrella Mountain Center for Teaching and Learning was established to provide faculty a comprehensive set of support services focusing on good practices in teaching and learning. Programmatic support includes faculty orientations, forums on teaching and learning, faculty luncheon series, curriculum development projects and the teaching and learning resource center. The Center also offers faculty a new experimental learning space which is equipped with the latest in multimedia technology, along with space for developmental work. The Center for Teaching and Learning is located on the northwest corner of Montezuma Hall.

Counseling Komatke Hall 623-935-8909

Counseling services are provided to promote student development by helping you to define and achieve your personal, educational and occupational goals. At Estrella Mountain there is always access to a helping hand in times of difficulty. The counseling staff encourages you to visit, to share successes and to talk out problems whenever you need some encouragement in your college experience.

College Safety & Security Komatke Hall

Located on the north side of the building adjacent to the Ceremonial Plaza. Many dedicated staff members work behind the scenes to insure that your physical surroundings are pleasant and safe so that you can be comfortable to pursue your education. You may contact College Safety via Estrella Mountain's web page or by calling:

Emergencies: 623- 935-8911 Non-emergency: 623-935-8915

In the unlikely occurrence of an extreme safety emergency: Go to one of the emergency (blue lighted) telephones on campus ...press the call button and it will automatically connect you with the Safety & Security Office ...state the nature of your emergency.

Disability Resources and Services

www.estrellamountain.edu/disability Komatke Hall 623.935.8935 or 623.935.8928 VP www.ramona.shingler@emcmail.maricopa.edu

Students with disabilities are encouraged to contact the DRS office at the beginning of the admissions process to discuss accommodation needs and to request for an alternative format of printed materials. Some accommodations may require 3-4 weeks notification (i.e., sign language interpreters). For concerns or grievances regarding ADA or Section 504, please contact the Vice President of Student Affairs at 623.935.8812 or 623.935.8928 VP

Food Services Komatke Hall 623-935-8948

The Courtyard Grill on-site restaurant offers students an inexpensive place to grab a bite to eat. Located at Komatke Hall, the food services management encourages students to use both the indoor and outdoor eating areas whether they are customers of the restaurant or are carrying a lunch from home. For added convenience, vending machines are located on both floors of Montezuma Hall and in front of Komatke Hall.





JOB PLACEMENT

Komatke Hall 623-935-8909

http://ntweb.dist.maricopa.edu/careers/

Listings of both part-time and full-time jobs are located in Komatke Hall in the Student Services area. On-campus interviews are held throughout the school year by employers around the valley who recruit and hire students. Students can also access the *Maricopa Center Network at http://ntweb.dist.maricopa.edu/careers/* a job search engine that matches job candidates with employers based on measurable competencies. This is a free system, Internet accessible 24 hours a day.

Student Insurance/Accident and Health Komatke Hall 623-935-8910

Enrolled students are automatically provided insurance coverage for college-related accidents. The plan provides secondary coverage when a student has individual insurance and will pay the remaining reasonable charges within the limits of the policy. Forms can be obtained through Student Life.

SPECIAL ASSISTANCE

Komatke Hall

If you are returning to school after a long absence, are challenged by a disability, or require some other form of special accommodation, Estrella Mountain stands ready to provide individualized support as needed. Contact one of the following areas to receive specialized support.

High School Outreach Services 623-935-8905

Offering: Assistance with admission forms

Registration assistance Ombudsmen activities Financial aid information

Bilingual assistance for Spanish speaking students

Re-Entry Services 623-935-8909

Offering: Skills building seminars

Registration assistance

Personal development seminars

College Transition

High School Dual Enrollment 623-935-8443

http://www.estrellamountain.edu/k12/Dualenroll.asp

The high school dual enrollment program is for students under 18 years of age who would like to get a head start on their college education. Admission to the program requires written permission of parents, the high school counselor/administrator, and Estrella Mountain. Students taking advantage of dual enrollment should be advised that, as college students, they will be subject to all of the requirements, policies, and regulations described in this catalog. The courses they take will become a part of their official college transcripts, which must be reported when attending future colleges and universities.



Transfer Information Komatke Hall 623-935-8821

www.estrellamountain.edu/advisement/

Transfer information and resources are available to assist in making the transition to another college or university. Meeting with an advisor will help chart progress toward completion of an Associate Degree and transfer requirements. In addition, the Course Applicability System (CAS) is available to help determine how courses transfer to the state universities, and can assist in matching course work with university degree requirements. At the point of transfer, Estrella Mountain's Transfer Student Ombudsman (TSO) is available to assist students who encounter problems in transferring to Arizona's public universities.

Institutional Advancement Estrella Hall 623- 935-8050

The purpose of institutional advancement at the college is to enhance the reputation of the college in the external community. The functions include preparation of targeted external publications, public relations campaigns, partnership development, fund-raising and special projects to build the Estrella Mountain Scholarship Endowment and to garner support for other institution wide initiatives of the college.

Student Life Komatke Hall 623-935-8807

www.emc.maricopa.edu/studentlife/

Deciding to attend college can be the opportunity of a lifetime. It opens doors to new friendships, offers a different social life and can help build leadership and team skills that will impact students for the rest of their lives. In addition to the academic growth that students experience at Estrella Mountain, there is a myriad of student activities available to help build students' confidence and abilities as they contribute to both the campus community and the community at large.





CLUBS

Asian Pacific Islander Club

Advisor: Carole Yoshida-Bacula 623- 935-8833

The purpose of the APIAC is to reach out to those who want to learn and/or be a part of an organization which promotes racial, political, cultural, and self awareness of the Asian Pacific Islander minorities.

Black Student Union

Advisor: Tanisha Johnson Maxwell 623- 935-8934

The purpose of the Black Student Union is to stimulate education by providing an awareness, recognition of and appreciation toward contributions by the Black American culture to the United States of America and to the world.

Christian Student Association

Advisor: Iris Love 623-935-8828

The Christian Student Association (CSA) is an organization that promotes and supports Christian values, leadership and awareness among Christian community college students. The CSA is not based on any particular religion or church affiliation, and is open to all community college students.

Future Teachers of America

Advisor: Dr. Deborah Raffin 623-935-8441

The purpose of the organization is to create a student network that will allow the students to bond, share knowledge and experiences. While participating in club activities we will develop excellent communications skills, voluntaryism, and leadership skills. This club will be designed to enhance and work along side preexisting organizations on campus such as America Reads and Inspire. Teach.

Gay Straight Alliance

Advisor: Dr. Kathleen ludicello 623- 935-8460

GSA works to create a safe space within the Estrella Mountain Community College community for GLRTQ students. It does so throught an alliance of GLBTQ and straight students.

Linux Users Group

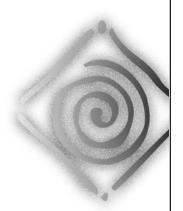
Advisor: Randol Larson 623-935-8077

The Linux Users Group includes all students who are interested in Linux education; higher level students will support lower level students, share learning experiences and knowledge, create and complete projects that support Linux education.

M.E.Ch.A.

Advisor: To Be Determined 623-935-8910

M.E.Ch.A. (Movimiento Estudiantil Chicano de Aztlan) is an organization that promotes and supports higher education for Chicano/Hispano students. M.E.Ch.A. also encourages student involvement in cultural and social issues, on and off campus, especially those affecting the Chicano/Hispano community.





Philosophy Club

Advisor: Jason Mallory 623- 935-8380

The purpose of this organization is to stimulate a strong interest in Philosophy, provide a campus community for philosophical reflection among Estrella Mountain Community College students, and promote a general climate of critical thinking and thoughtful questioning on campus.

Social Awareness Club

Advisor: Herschel Jackson 623-935-8910

The purpose of the Social Awareness Club focuses on bringing awareness of social issues to the campus community. The club focuses on activism, awareness, and tolerance. Some of the social issues include gun control, the environment, healthcare and cultural diversity.

Society of Physics Students

Advisor: Dr. Dwain Desbien 623-935-8474

The purpose of this chapter shall be the advancement and diffusion of knowledge of Physics, the encouragement of interest in physics throughout the academic and local communities, and the introduction of students to the professional community.

Writing Club

Advisor: Malik Toms 623- 935-8303

The purpose of the organization is to stimulate a strong interest in writing to provide fellowship among the writing enthusiasts and to promote original fiction or non-fiction production among the members.

HONORARY GROUPS

Phi Theta Kappa

Advisor: Marylyn Bradley

Phi Theta Kappa, the International Honorary Society for Community Colleges, is committed to promoting scholarship, leadership, service, and fellowship among talented community college students. Beta Alpha Xi, the Estrella Mountain Chapter of Phi Theta Kappa, achieved an outstanding Five Star Ranking in its five years of existence. Each semester, students who have completed twelve (12) credit hours with a 3.5 grade point average receive an invitation to join the organization.

Honors Program

Coordinator: Clarissa Davis-Ragland 623-935-8594

See page 169 of the catalog for a detailed description of the Honors Program.

SERVICE LEARNING

Komatke Hall 623- 935-8802

We encourage all students to consider the community through Estrella Mountain's Service Learning Program. Check with your instructor to see if there is a Service Learning component in which you can participate to complete your class requirements.

Spend your energies where:

- ♦ You feel rewarded
- ♦ You gain satisfaction
- ♦ You feel responsible
- ♦ You feel growth







LEARNING SUPPORT

The focal point of the campus is Estrella Hall, a building which houses the Information Commons, that integrates computing, library and learning enhancement services. The Information Commons offers an information-rich environment, which supports the entire campus community – students, faculty, staff, and community users. Students at Estrella Mountain have full access to this remarkable facility and the support services it provides to facilitate and enrich their college experience.



The Information Commons offers personal computing support for the entire campus. The Commons presently houses over 125-networked workstations, with each workstation offering access to local, regional, national and international instructional and information resources through the campus network and the Internet.

Services offered 623-935-8150:

- ♦ One-on-one support in the use of academic and application software
- ♦ Access to computing resources including the Internet
- ♦ Self-Paced Program: orientation, administration, and instructional support
- Training sessions: software application-training sessions are provided in a variety of formats, individual, small group, workshop, and as scheduled by instructors.
- Support in accessing and using information resources
- ♦ Assistance in accessing online resources
- Access and training in use of Blackboard
- ♦ Remote access options

For more information regarding services or to schedule services for your students, please contact the Information Commons Desk at 623-935-8150.



LIBRARY RESOURCES

623-935.8191

http://www.estrellamountain.edu/library

The Estrella Mountain's Library creates a connection between people and information that extends anywhere, anytime. The library seeks to meet the information needs of the digital information world as well as the traditional research needs of every student. Our Web site provides 24 hour access to thousands of electronic books and millions of magazine and journal articles. In addition to the materials available at Estrella Mountain's Library, students may access and request materials from any of the other nine Maricopa Community College Libraries.

Library Hours Monday - Thursday 7AM - 10PM

Friday 7AM - 5PM Saturday 8AM - 5PM Sunday Closed

Library Cards Student ID cards serve as library cards and are required to

make use of these services.

Library Instruction Instruction is provided through classes, small groups, and

one-to-one interaction

For more information regarding services or to schedule services for students please contact the Consultation Desk at 623-935-8191.



Learning Enhancement & Writing Support Center 623-935-8189

http://www.estrellamountain.edu/ctl/learningsupport

The Learning Enhancement & Writing Support Center (LEWSC) at Estrella Mountain provides supportive, collaborative, and knowledgeable academic assistance to students, faculty and staff. The following services are provided by the Learning Enhancement & Writing Support (LEWSC) located in Estrella Hall, 1st floor, to the right of the Information Commons:

When is it open? Monday - Thursday 7:00am - 8:00pm

Friday 7:00am - 5:00pm Closed Saturdays, Sundays and Holidays

What do we support? Reading, English, ESL (English as a Second Language), all

Liberal Arts, Social and Behavioral Sciences (i.e. Psychology) and Occupational (i.e. Accounting, General

Business and Economics).

Do I need an appointment? Drop-in and appointment based tutoring available for all

writing assistance on most contents.

What are the services? Writing assistance for all subjects, make-up testing, online

paper critiquing strategies for college success, study rooms (some with computer access) study groups, individualized tutoring (via Disability Resources), textbooks and resources within center, online tutoring services based on request.



NASA Center for Success in Math & Science 623-935-8221

estrellamountain.edu/academics/nasacenter Montezuma Hall, 1st Floor, Room 119

The NASA Center for Success in Math & Science serves as the cornerstone for student success in Math and Science. The mission is to create a continuous support structure for students to insure their persistence from middle school through high school and on to college and/or advanced degrees. The Center's strategies are grounded in the best practices and are focused in three areas:

Outreach Middle/high school students

K-12 partnering teachers

Parents/families

Retention Instructional support programs

Student Service support programs Faculty coordinated programs

Transfer University Programs

Industry Internship and employment programs

Alumni Programs

At the NASA Center the focus is on the retention. The following services are offered:

- Individualized tutoring in Mathematics, Biology, Chemistry, Geology and Physics.
- ♦ Drop in tutoring
- Graphing calculators Lease Program
- ♦ Wireless laptop computers for use in the NASA Center
- ♦ Access to science equipment such as: anatomical models and microscopes
- ♦ Access to Chemistry molecular model sets and charts
- ♦ Math and Science textbooks available for use in the NASA Center
- ♦ Quiet study rooms
- Workshops and seminars for Student Success
- ♦ Phone tutoring for mathematics
- ♦ Connection to Internship opportunities and Scholarships

Hours of operation (Fall and Spring):

Monday-Thursday 7:00AM-9:00PM Friday 8:00AM-5:00PM Saturday 8:00AM-3:00PM

Summer Hours:

Monday - Thursday 7:00AM-7:00PM

For more information regarding services please call the NASA Center at 623-935-8221.



At Estrella Mountain, we are very concerned with learning. We use assessment as a way to promote continued excellence in teaching and learning by improving and enhancing student abilities and success, determining achievement of student abilities, measuring the effectiveness of student abilities, and using assessment as a tool for feedback and learning. Communication and Critical Thinking at Estrella Mountain are defined as follows:

Communication

A student who effectively communicates:

- responds to an audience
- demonstrates a clear sense of purpose
- organizes information
- presents information using appropriate language and delivery

Critical Thinking

A student who thinks critically processes, synthesizes and applies information to solve problems by:

- identifying the problem
- developing and implementing strategies
- evaluating information
- reaching conclusions
- responding to the problem

To benefit students, Communication and Critical Thinking are being integrated into a wide variety of Estrella Mountain courses. Students learn course content and develop these important abilities to enhance success in academic and professional pursuits.

Web address: http://www.estrellamountain.edu/academics/saac/



General Education

At Estrella Mountain, students experience a collaborative and stimulating environment which stresses a solid foundation of general education. Each facet of the Estrella Mountain experience is designed to provide students with the necessary information, knowledge, abilities, intellectual concepts, and the perspectives they need to achieve their academic and personal goals.

Our curricular patterns enhance critical thinking and communication skills. They reflect an emphasis on the study of composition, literacy and critical inquiry, numeracy, humanities, fine arts, the social and behavioral sciences, the natural sciences, as well as cultural diversity, global and/or historical awareness.

Recognizing the importance of breadth of knowledge, the ability to apply that knowledge, and a view of learning as a lifetime activity, faculty and staff are committed to providing all students with a teaching and learning environment in which everyone experiences growth.



UNIVERSITY TRANSFER AND PATHWAYS

AZ Transfer Pathways

Each public university major is matched with one of the following Maricopa Community Colleges Associate Degree Pathways. Some majors at the Arizona public universities are not matched with any of the Transfer Pathway Degrees below, due to sequencing or upper division requirements, and are designed as Transfer Guide-Exceptional Requirements (TG-XR). Students should consult with an advisor to determine the specific degree requirements for the selected major.

1		<u> </u>		
	AGEC - A	1. Core Areas	96	35 Credits
Associate in Arts	MCCD P	2. Awareness Are		0.60-414
(AA) 60-64 Credits	- MCCD Requireme			0-6 Credits
	General Electives		complete a minimum of 60	credits but no
		more than a total o	of 64 semester credits.)	
	AGEC-A	1. Core Areas		35-38 Credits
Associate in Arts		2. Awareness Are	as	
Elementary Education	_ Elementary Requ			25 Credits
(AAEE) 60-63 Credits	-Education Fo			(15 Credits)
		AZ Professional Teacher Standards		(10 Credits)
	ACEC	1 C A		· · · · · · · · · · · · · · · · · · ·
Associate in Arts	AGEC - A	1. Core Areas		35-38 Credits
Fine Arts	Eira a Anta Daguina	2. Awareness Are	eas	(20 Cmodita)
(AAFA) 60-64 Credits	Fine Arts Require Fine Arts Require			(28 Credits) (29 Credits)
()	Fine Arts Require			(25-29 Credits)
	rine Aris Kequire	meni - 1 neuire		(23-29 Ciedits)
	Associate in	A CEC P	1. C A	25.0
	Business General	AGEC B	1. Core Areas	35 Credits
	Requirements	C D' '.'.	2. Awareness Areas	27 20 C . 1'4
	ABus-GR Pathway	Common Lower Division General Electives	-	27-28 Credits
	62-63 credits	General Electives	(Select courses to compl	
	All Business Majors		62 credits but no more the	nan a total of 63
Associate in Business	except ACC & CIS		semester credits)	
(ABus)	Associate in	AGEC B	1. Core Areas	25 C 1:4.
	Business Special	AGEC B	 Core Areas Awareness Areas 	35 Credits
	Requirements	Common Lower Division		27-28 Credits
	ABus-SR Pathway	General Electives	(Select courses to compl	
_	62-63 credits	General Electives	62 credits but no more the	
	CIS Majors		semester credits)	nan a total of 03
	(ACC TG-XR)		schiester eredits)	
		AGEC S	1. Core Areas	35 Credits
Associate in Science	Associate in	TIGEC 5	2. Awareness Areas	33 Cicara
(AS)	Science	MCCD Requirements	(Communication, Reading	ng) 0-6 Credits
(Tab)	60-64 Credits	General Electives	(Select courses to compl	
			60 credits but no more the	
			semester credits)	
Additional Programs for Uni	versity Transfer			
		MCCCD General Education	on Core	(19 Credits)
Associate in Transfer Partnership	- 60 Credits	Approved Lower Division Transfer Courses		,
(ATP)				(Credits Vary)
Associate in General Science		General Education Core A		(16 Credits)
(AGS)	60 Credits	General Education Distrib	oution Areas	(28-29 Credits)
(A G 3)		Elective Courses		(15-16 Credits)
Associate in Applied Science		General Education Core A	Areas	(15 Credits)
l ————————————————————————————————————	60 Credits	General Education Distrib	bution Areas	(9-10 Credits)
(AAS)	OU CICUIES	Required Courses		(Credits Vary)
		Restricted Electives		(Credits Vary)
		I Resulting Electives		(Cicuits vary)





Description

The Maricopa County Community College District Arizona General Education Curriculum (MCCCD AGEC) is a 35-semester-credit general education certificate 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.

Purpose of the 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 at the Arizona public universities can be accessed via the following web address:

http://az.transfer.org/cas/atass/

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

- 1. The AGEC A is designed to satisfy requirements in many liberal arts majors as well as other majors that articulate with the Associate in Arts (e.g., social sciences, fine arts, humanities). AGEC A requires a minimum of college mathematics or college algebra to satisfy the Mathematics [MA] requirement. AGEC A Mathematics requirement is less stringent than the AGEC B and AGEC S. AGEC A and AGEC B Natural Sciences requirements are less stringent than AGEC S.
- 2. The AGEC B is designed to satisfy requirements in business majors that articulate with the Associate in Business. AGEC B requires a minimum of brief calculus to satisfy the Mathematics [MA] requirement.
- 3. The AGEC S is designed to satisfy requirements in majors with more prescriptive mathematics and mathematics-based science requirements. AGEC S articulates with the Associate in Science. AGEC S requires a minimum of the first course in a calculus sequence to satisfy the Mathematics [MA] requirement, and a minimum of eight credits of either university chemistry, university physics or general biology to satisfy the Natural Sciences [SQ/SG] requirement.

Academic Policies that Govern the 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.

AGEC Requirements

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

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

Click on Program Information
Scroll down to Program Sorting/Reporting
Select AGEC Course Matrix or
Select the Current Academic Year
Select the desired General Education Designation



AGEC Requirements Continues...

A

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.

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

AGECA requires;

- Mathematics [MA] (3 credits) AND NOTE: requires a course in college mathematics (MAT142) or college algebra (MAT150, MAT151, MAT152) or pre-calculus (MAT187) or any other mathematics course designated with the MA general Education value and for which college algebra is a pre-requisite.
- b. Computer/Statistics/Quantitative Applications [CS] (3 credits)

AGEC B requires;

- Mathematics [MA] B (3 credits) AND
 NOTE: requires a course in brief calculus (MAT212) or a higher level mathematics course (MAT216, MAT220, or MAT221 or any course for which these courses are prerequisites).
- b. Computer/Statistics/Quantitative Applications [CS] (3 credits)

AGECS requires;

- Mathematics [MA] S (3 credits) AND
 NOTE: requires a calculus course (MAT220 or MAT221) or any course for which MAT220 or MAT221 are prerequisites.
- b. Computer/Statistics/Quantitative Applications [CS] (3 credits)
- 4. Humanities and Fine Arts [HU] 6
 Students are encouraged to choose courses
 from more than one discipline for a total of six semester credits.
- Social and Behavioral Sciences [SB]
 Students are encouraged to choose courses from more than one discipline for a total of six semester credits.
- 6. Natural Sciences [SQ/SG] 8
 To complete the Natural Sciences requirement:

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

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



The 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 AZ Course Equivalency Guide (CEG) within the AZ Course Applicability System (AZCAS) for information on equivalencies.

B. Awareness Areas:

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

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

AGEC Area Requirements Descriptions/Definitions

CORE AREAS

First-Year Composition (FYC)

6 credits

A total of six semester credits must be completed with a grade of "C" or better in the First-Year Composition Core area. Courses must emphasize skills necessary for college-level learning and writing skills.

Literacy and Critical Inquiry [L]

3 credits

A total of three semester credits must be completed with a grade of "C" or better in the Literacy and Critical Inquiry Core area. In the [L] course, typically at the sophomore level, students gather, interpret, and evaluate evidence and express their findings in writing or speech. This course includes a series of graded written or spoken formal assignments.

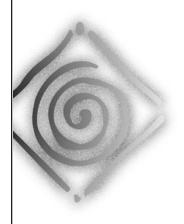
Literacy is defined broadly as communicative competence in written and oral discourse; critical inquiry is defined as the gathering, interpreting, and evaluating of evidence. Building on the proficiency attained in traditional First-Year Composition courses, the Literacy and Critical Inquiry requirement helps students sustain and extend their ability to reason critically and communicate clearly through language.

Mathematical Studies 6 credits

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

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

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





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

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

Mathematics [MA] AGEC A

The AGEC A Mathematics Core area requires a course in college mathematics, college algebra, pre-calculus, or any other mathematics course for which college algebra is a prerequisite.

Mathematics [MA] AGEC B

The AGEC B Mathematics Core area requires a course in Brief Calculus or a higher level mathematics course.

Mathematics [MA] AGEC S

The AGEC S Mathematics Core area requires the first course in the calculus sequence or any mathematics course for which that course is a prerequisite.

Computer/Statistics/Quantitative Applications [CS]

AGEC A, B, and S [CS] option requires: courses that emphasize the use of statistics or other mathematical methods in the interpretation of data and in describing and understanding quantitative relationships, courses that involve the use of computer programming languages or software in the development of skills in analytical thinking.

Humanities and Fine Arts [HU]

6 credits

A total of six semester credits must be completed with a grade of "C" or better in the Humanities and Fine Arts Core area. Students are encouraged to choose coursework 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.

Social and Behavioral Sciences [SB]

6 credits

A total of six semester credits must be completed with a grade of "C" or better in the Social and Behavioral Sciences Core area. Students are encouraged to choose course work 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. 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

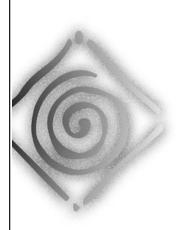
Awareness Areas

Students must satisfy two Awareness areas: Cultural Diversity in U.S.. and either Global Awareness or Historical Awareness. Courses can satisfy a Core area and one or two Awareness areas simultaneously. Therefore, no additional semester credits are required to satisfy the two Awareness areas.

Cultural Diversity in the United States [C]

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

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





Global Awareness [G]

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

Courses that satisfy the global awareness option in the requirements are of one or more of the following types:

- 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.







Description

The Maricopa County Community College District Associate in Arts degree requires 60-64 semester credits for the program of study. The degree includes the following components:

- I. General Education:
 - Arizona General Education Curriculum for Arts (AGEC-A) MCCCD Additional Requirements
- II. General Electives

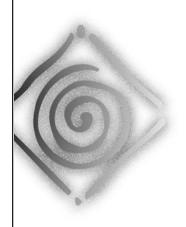
Purpose of the Degree

The Associate in Arts degree is designed for students planning to transfer to four-year colleges and universities. In general, the components of the degree meet requirements for majors in the Liberal Arts or programs of study other than business or science. The degree will transfer as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements.

The semester credits used to satisfy the MCCCD Associate in Arts will apply to university graduation requirements of the university major for which the Associate in Arts is designed. Information regarding the articulation of the Associate in Arts with majors at the Arizona public universities can be accessed via the following website: http://az.transfer.org/cas/atass/student/modpath.html

Academic Policies that Govern the Associate in Arts Degree

- Completion of the Associate in Arts or the AGEC-A provides for exemption from Arizona public university admission requirements for Arizona residents who have a minimum Grade Point Average of 2.0 on a 4.0=A scale and a minimum 2.5 on a 4.0=A scale for non-residents.
- The graduation policies within the general catalog must be satisfied for completion of the Associate in Arts degree.
- A minimum of 60 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- The General Education Requirements for AGEC-A may be completed in 35 semester credits with the following stipulations
 - O Courses can satisfy a Core Area and one or two Awareness Areas simultaneously
 - o A courses cannot be used to satisfy more than one Core Area
- General Education Courses can satisfy multiple areas within the degree simultaneously (AGEC-A Core Area, AGEC Awareness Area, MCCCD Additional Requirements, or lower-division courses applicable to the major).
- Effective Fall 2000, the course evaluation and/or general education designation as listed in the Arizona Course Equivalency Guide (CEG) 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. Students do have the option to petition for general education evaluations and/or general education designations upon transfer.





- Courses completed at one of the Maricopa Community Colleges to meet AGEC-A requirements must be listed in the Course Equivalency Guide within the Arizona Course Applicability System as an equivalent course, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities. The course's evaluation and/ or general education designation is valid for the term in which the student is awarded credit on the transcript. See the list titled MCCCD Courses That Can Be used to Satisfy MCCCD AGEC-A, AGEC-B, and/or AGEC-S for specific course information via the following website: http:// www.dist.maricopa.edu/academic/curric/
- Courses completed at one of the Maricopa Community Colleges to meet
 the General Electives requirement must be listed in the Course Equivalency
 Guide (CEG) within the Arizona Course Applicability System (AZCAS) as
 an equivalent course, departmental elective credit (XXXDEC), or general
 elective credit (Elective) at all Arizona public universities. For appropriate
 course selection, students should consult with an advisor.
- Courses transferred from another regionally accredited institution to one
 of the Maricopa Community Colleges will be evaluated by the college for
 inclusion in the AGEC-A or Associate in Arts Degree.
- Courses and their modular equivalents will satisfy AGEC-A and Associate in Arts requirements.
- If a course is cross-referenced with one or more other courses, then only
 one of the cross-referenced courses will be accepted to meet requirements.

Degree Requirements

The 60-64 semester credits required for the Associate in Arts follow. See the list titled MCCCD Courses That Can Be used to Satisfy MCCCD AGEC-A, AGEC-B, and/or AGEC-S for specific course information via the following website: http://www.dist.maricopa.edu/academic/curric/ This list identifies the courses in alphaorder by prefix as well as the Core Areas and Awareness Areas where the course will apply. For purposes of clarifying requirements in the Mathematics and Natural Sciences areas on the list and the AGEC requirements, an A, B, and/or S character may follow the [MA], [SQ], [SG] general education designations and refers to the specific AGEC.

I. MCCCD General Education

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

MCCCDAGEC-A

MICCODITORE II				
1.	Core Areas:	35		
	a. First-Year Composition (FYC)	6		
	b. Literacy and Critical Inquiry [L]	3		
	c Mathematical Studies [MA/CS]	6		

To complete the Mathematical Studies requirement, select one course to satisfy

Mathematics [MA] A and a second course from Computer/ Statistics/Quantitative Applications [CS].





1) Mathematics [MA] A (3 credits)

Note: requires a course in college mathematics (MAT142) or college algebra (MAT 150, MAT 151, MAT152) or pre calculus (MAT 187) or any other mathematics course designated with the MA general education value and for which college algebra is a pre-requisite.

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.

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 AZ Course Equivalency Guide (CEG) within the AZ Course Applicability System (AZCAS) for information on 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. 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)

b. Critical Reading

A total of three (3) semester credits is required for the Critical Reading area. However, if students complete CRE 101 and apply it to AGEC-A Core Requirements 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. General Electives

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

For students who have decided on a major that articulates with the AA, but who are undecided on the university to which they will transfer, courses satisfying the General Electives area should be selected from the list of Common Courses, Arizona Transfer Pathway Guides, and/or University Transfer Guides in order for the courses to apply in the major upon transfer.

The list of Common Courses for each major is included in the Arizona Transfer Pathway Guides. University Transfer Guides are also available for the Arizona public universities. These guides, both statewide and institutional, are accessible on the following web site: http://az.transfer.org/cas/students/transfer_guides.htm

Students must select MCCCD 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 CEG within the AZCAS. For appropriate course selection, students should consult with an advisor.

For some majors, students must demonstrate 4th semester proficiency at the 202 course level to satisfy the Non-English Language Requirements. Students should consult the Arizona Transfer Pathway Guides and/or the University Transfer Guides to determine this requirement for the major at the university to which they intend to transfer. If required, it is recommended that students choose Maricopa courses as electives to meet this requirement as part of the Associate in Arts degree.

Students who are undecided on a major or university should consult an advisor. Not all majors have common courses, so it is recommended that students consult with an advisor for a list of common courses or assistance with selecting appropriate electives.







Description

The MCCCD Associate in Arts in Elementary Education (AAEE) requires the student to complete a total of 60-63 semester credits in the program of study. The degree has two major components:

I. MCCCD General Education

Arizona General Education Curriculum for Arts (AGEC-A)

Additional MCCCD Requirements

II. Elementary Education Requirements

Education Foundations

Elective for Arizona Professional Teacher Standards

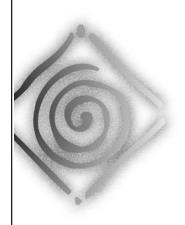
Purpose of the Degree

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.)

Academic Policies that Govern the Associate in Arts Elementary Education Degree:

- Completion of the Associate in Arts or the AGEC-A provides for exemption from Arizona public university admission requirements for Arizona residents who have a minimum Grade Point Average of 2.0 on a 4.0= A scale and a minimum 2.5 on a 4.0= A scale for non-residents.
- The graduation policies within the general catalog must be satisfied for completion of the Associate in Arts degree.
- A minimum of 60-63 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- The General Education Requirements for AGEC-A may be completed in 35 semester credits with the following stipulations:
 - O Courses can satisfy a Core Area Requirement and one or more Awareness Areas simultaneously.
 - O Courses can satisfy an Elementary Education Requirement and one or more Awareness Areas simultaneously.
 - O A course cannot satisfy more than one Core Area Requirement.
 - O A course cannot satisfy both the Elementary Education Require ment and a Core Area Requirement simultaneously.





- Effective Fall 2000, the course evaluation and/or general education designtion as listed in the Arizona Course Equivalency Guide (CEG) 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. Students do have the option to petition for general education evaluations and/or general education designations upon transfer.
- Courses completed at one of the Maricopa Community Colleges to meet AGEC-A requirements must be listed in the Course Equivalency Guide within the Arizona Course Applicability System as an equivalent course, departmental elective credit (XXXXDEC), or general elective credit (Elec tive) at all Arizona public universities. The course's evaluation and/or general education designation is valid for the term in which the student is awarded credit on the transcript. See the list titled MCCCD Courses That Can Be used to Satisfy MCCCD AGEC-A, AGEC-B, and/or AGEC-S for specific course information via the following website: http://www.dist.maricopa.edu/academic/curric/
- Courses completed at one of the Maricopa Community Colleges to meet the General Electives requirement must be listed in the Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS) as an equivalent course, departmental elective credit (XXXDEC), or general elective credit (Elective) at all Arizona public universities. For appropriate course selection, student should consult with an advisor.
- Courses transferred from another regionally accredited institution to one of the Maricopa Community Colleges will be evaluated by the college for inclusion in the AGEC A or the Associate in Arts Elementary Education degree.
- Courses and their modular equivalents will satisfy AGEC-A and Associate in Arts in Elementary Education requirements.
- If a course is cross-referenced with one or more other courses, then only
 one of the cross-referenced courses will be accepted to meet requirements.

Degree Requirements

I. MCCCD General Educational Requirements

Credits

A. MCCCDAGEC-A

1. Core Areas

35-38

a. First-Year Composition [FYC] ENG101/102 OR ENG107/108

6

6

- b. Mathematics Studies [MA] and Computer/Statistics/Quantitative Applications [CS]
- 1) MAT142 [MA] College Mathematics, or higher (NOTE: MAT150, MAT151, MAT152, MAT156 and MAT157 are excluded) AND
- 2) CIS105 [CS] Survey of Computer Information Systems, OR BPC110 [CS] Computer Usage and Applications



AAEE Degree Requirements (continued)

c. Literacy and Critical Inquiry [L]
Select 3 semester credits from the following courses:
COM225 Public Speaking, or COM230 Small Group Communication

d. Humanities and Fine Arts [HU]

6

3

 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

EDU/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. Social and Behavioral Sciences [SB]

6

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

ECH/CFS176 Child Development

f. Natural Sciences—Science-Quantitative [SQ] and Science-General [SG]

To complete the Natural Sciences requirement, select a total of 8 semester credits from the following categories. At least 4 credits must be SQ courses. You can select 4 semester credits of SG and 4 semester credits of SQ for a total of 8 semester credits. Natural Sciences courses must include or be accompanied by the corresponding laboratory course. When the lecture and corresponding laboratory are awarded separate credit, both will be counted as equivalent to one course in that discipline.

Select SQ (Life Science) and SG (Physical Sciences, Earth/Space Sciences) courses from the following categories:

1. Life Sciences

AND

2. Physical Sciences

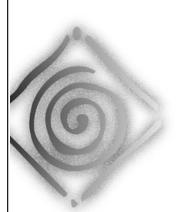
OR

Earth/Space Sciences

g. Awareness Areas

0

The MCCCD AAEE requires coursework in two Awareness Areas: Cultural Diversity in the U.S. [C]





AND Historical Awareness [H] OR Global Awareness [G]

Courses can satisfy a Core Area Requirement and one or more Awareness Areas, or can satisfy an Elementary Education Requirement and one or more Awareness Areas simultaneously. Therefore, no additional semester credits are required to satisfy the two Awareness Areas.

3. MCCCD Additional Requirements

0-3

- a. Oral Communication
 Satisfied by COM225 or COM 230 taken for Literacy and Critical
 Inquiry Requirement
- b. Critical Reading CRE101 or exemption by testing

II. Elementary Education Requirements

25

A total of 25 semester credits are required to satisfy the Elementary Education Requirements.

A. Education Foundations

15

10

Complete the following courses to satisfy the Education Foundations requirements:

EDU221 Introduction to Education

EDU222 Introduction to the Exceptional Learner

EDU230 Cultural Diversity in Education

MAT156 Mathematics for Elementary Teachers I

MAT157 Mathematics for Elementary Teachers II

B. Electives for Arizona Professional Teacher Standards

A total of 10 semester credits are required to satisfy the Electives for Arizona Professional Teacher Standards: 3 credits in an additional Education course and 7 credits in Content Area Electives.

Courses must transfer to all public Arizona universities as Elective Credit, Departmental Elective, or Equivalent to a university course as indicated in the Arizona Course Equivalency Guide in effect when the course is taken. Courses identified as Non-transferable in the Arizona Course Equivalency Guide cannot be used to satisfy this requirement.

- Additional Education Course Requirement
 Select any EDU course (except EDU221, EDU222, EDU230 and EDU250) to satisfy this requirement.
- 2) Content Area Electives

Select 7 credits from the following:

Any ARH, ART, CIS, BPC, ENG, ENH, GPH, HIS, MHL, MTC, POS,

THE, THP prefixed course(s)

Any EDU prefixed course(s) (except EDU250)

Any MAT (courses numbered higher than 142 except MAT150,

MAT151, MAT152, MAT156 and MAT157)

Any Foreign Language course(s)

Any Natural Science course(s)

CFS/ECH176 Child Development







ASSOCIATE IN ARTS (AAFA) FINE ARTS - DANCE

Description

The Maricopa County Community College District Associate in Arts, Fine Arts - Dance degree requires a minimum of 64 semester credits for the program of study. The degree includes the following components:

I. General Education:

Arizona General Education Curriculum for Arts (AGEC-A) MCCCD Additional Requirements

II. Fine Arts Requirements – Dance

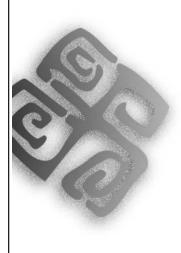
Purpose of the Degree

The Associate in Arts, Fine Arts - Dance degree is designed for students planning to transfer to four-year colleges and universities. In general, the components of the degree meet requirements for majors in the Fine Arts. The degree is designed to prepare students to meet selective admission criteria for programs such as the Bachelor of Fine Arts, which may require a portfolio or performance requirement.

The semester credits used to satisfy the MCCCD Associate in Arts, Fine Arts - Dance degree will apply to university graduation requirements of the university major for which the degree is designed. Information regarding the articulation of the degree with majors at the Arizona public universities can be accessed via the following website: http://az.transfer.org/cas/atass/student/modpath.html

Academic Policies that Govern the Associate in Arts, Fine Arts - Dance Degree

- Completion of the Associate in Arts, Fine Arts -Dance degree or the AGEC-A provides for exemption from Arizona public university admission requirements for Arizona residents who have a minimum Grade Point Average of 2.0 on a 4.0=A scale and a minimum 2.5 on a 4.0=A scale for non-residents.
- The graduation policies within the general catalog must be satisfied for completion of the Associate in Arts, Fine Arts Dance degree.
- A minimum of 60 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- The General Education Requirements for AGEC-A may be completed in 35 semester credits with the following stipulations
 - o Courses can satisfy a Core Area and one or two Awareness Areas simultaneously
 - o A courses cannot be used to satisfy more than one Core Area
- General Education Courses can satisfy multiple areas within the degree simultaneously (AGEC-A Core Area, AGEC Awareness Area, MCCCD Additional Requirements, or lower-division courses applicable to the major).
- Effective Fall 2000, the course evaluation and/or general education designation as listed in the Arizona Course Equivalency Guide (CEG) 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. Students do have the option to petition for general education evaluations and/or general education designations upon transfer.





- Courses completed at one of the Maricopa Community Colleges to meet AGEC-A requirements must be listed in the Course Equivalency Guide within the Arizona Course Applicability System as an equivalent course, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities. The course's evaluation and/or general education designation is valid for the term in which the student is awarded credit on the transcript. See the list titled MCCCD Courses That Can Be used to Satisfy MCCCD AGEC-A, AGEC-B, and/or AGEC-S for specific course information via the following website: http://www.dist.maricopa.edu/academic/curric/
- Courses completed at one of the Maricopa Community Colleges to meet the General Electives requirement must be listed in the Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS) as an equivalent course, departmental elective credit (XXXDEC), or general elective credit (Elective) at all Arizona public universities. For appropriate course selection, students should consult with an advisor.
- Courses transferred from another regionally accredited institution to one of the Maricopa Community Colleges will be evaluated by the college for inclusion in the AGEC-A or Associate in Arts, Fine Arts-Dance Degree.
- Courses and their modular equivalents will satisfy AGEC-A and Associate in Arts, Fine Arts Dance requirements.
- If a course is cross-referenced with one or more other courses, then only one of the cross-referenced courses will be accepted to meet requirements.

Degree Requirements

The 64 semester credits required for the Associate in Arts, Fine Arts - Dance degree follow. See the list titled MCCCD Courses That Can Be used to Satisfy MCCCD AGEC-A, AGEC-B, and/or AGEC-S for specific course information via the following website: http://www.dist.maricopa.edu/academic/curric/ This list identifies the courses in alphaorder by prefix as well as the Core Areas and Awareness Areas where the course will apply. For purposes of clarifying requirements in the Mathematics and Natural Sciences areas on the list and the AGEC requirements, an A, B, and/or S character may follow the [MA], [SQ], [SG] general education designations and refers to the specific AGEC.

L MCCCD General Education

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

MCCCDAGEC-A

- 1. Core Areas: Credits: 35
- a. First-Year Composition (FYC): Credits: 6
- b. Literacy and Critical Inquiry [L]: Credits: 3
- c. Mathematical Studies [MA/CS]: Credits: 6
 To complete the Mathematical Studies requirement, select one course to satisfy 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.



Associate of Arts, Fine Arts - Dance continued:

AND

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

d. Humanities and Fine Arts [HU]: Credits: 6
 Students are encouraged to choose course work from more than one discipline for a total of six semester credits.
 Select from the following options to complete three credits:

	Credits
DAH100 Introduction to Dance	3
DAH201 World Dance Perspectives	3

- e. Social and Behavioral Sciences [SB]: Credits: 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]: Credits: 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 AZ Course Equivalency Guide (CEG) within the AZ Course Applicability System (AZCAS) for information on equivalencies.

Select from the following options to complete four credits:

		Credit
BIO160	Introduction to Human	
	Anatomy and Physiology	4
BIO201	Human Anatomy and Physiology I	4

2. Awareness Areas: Credits: 0

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.

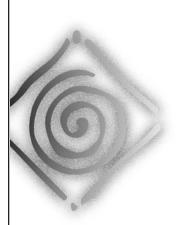
Cultural Diversity in the United States [C]

AND

Global Awareness [G] OR

Historical Awareness [H]

Students must satisfy Oral Communication and Critical Reading areas. 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: Credits: 3

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: Credits: 3

A total of three (3) semester credits is required for the Critical Reading area. However, if students complete CRE 101 and apply it to AGEC-A Core Requirements or if the students demonstrate proficiency through assessment, then the Critical Reading requirement has been satisfied and additional electives may be taken.

Select from the following options to complete 3 credits: CRE101 [L] (3 credits) OR equivalent as indicated by assessment

II. Fine Arts Requirements – Dance: Credits: 29

A minimum of 29 credits are required to satisfy the Fine Arts Requirements – Dance.

Part I: Credits 11

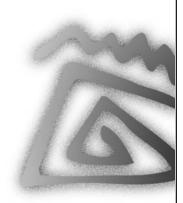
Select the following:

	Credits
DAN150 Dance Performance I	1
DAN210 Dance Production I	3
DAN221 Rhythmic Theory for Dance I	2
DAN264 Choreography I	3
DAN280 Dance Practicum	2

Part II: Credits: 9

Select from the following options to complete a minimum of nine-semester credits. Students must attain Level III competency in ballet and modern dance courses:

		Credits
DAN120++	World Dance (any module)	1
DAN129	Musical Theatre Dance I	1
DAN130	Musical Theatre Dance II	1
DAN131	Ballet I	1
DAN132	Modern Dance I	1
DAN133	Modern Jazz Dance I	1
DAN134	Ballet II	1
DAN135	Modern Dance II	1
DAN136	Modern Jazz Dance II	1
DAN229	Musical Theatre Dance III	1
DAN230	Musical Theatre Dance IV	1
DAN231	Ballet III	1
DAN231AA	Ballet III: Intensive	2
DAN232	Modern Dance III	1
DAN233	Modern Jazz Dance III	1
DAN234	Ballet IV	1





Associate of Arts, Fine Arts - Dance continued:

DAN234	Ballet IV: Intensive	2
DAN235	Modern Dance IV	1
DAN236	Modern Jazz Dance IV	1
DAN237	Ballet Pointe I	1
DAN290	Dance Conservatory I (any module)	1-3
DAN291	Dance Conservatory II (any module)	1-3
DAN292	Dance Conservatory III (any module)	1-3

Part III: Restricted Electives: Credits: 9

The remaining credits from DAH and DAN prefixed courses should be selected as prescribed by the dance advisor. Only three of the remaining credits may be selected from the following DAN prefixed courses:

		Credits
DAH+++++	Any DAH prefixed course EXCEPT DAH100 or	
DAH201 if selected to satisfy the AGEC A Humanities and Fine Arts Area.		
DAN115++	Contemporary Dance Trends (any module)	1
DAN120++	World Dance (any module)	1
DAN125++	Social Dance (any module)	1
DAN129	Musical Theatre Dance I	1
DAN130	Musical Theatre Dance II	1
DAN133	Modern Jazz Dance I	1
DAN136	Modern Jazz Dance II	1
DAN140	Tap Dance I	1
DAN141	Dance Workshop	1
DAN150	Dance Performance I	1
DAN164	Improvisation	1
DAN230	Musical Theatre Dance IV	1
DAN231	Ballet III	1
DAN231AA	Ballet III: Intensive	2
DAN232	Modern Dance III	1
DAN233	Modern Jazz Dance III	1
DAN234	Ballet IV	1
DAN234AA	Ballet IV: Intensive	2
DAN235	Modern Dance IV	1
DAN236	Modern Jazz Dance IV	1
DAN237	Ballet Pointe I	1
DAN290++	Dance Conservatory I (any module)	1-3
DAN291++	Dance Conservatory II (any module)	1-3
DAN292++	Dance Conservatory III (any module)	1-3
DAN298++	Special Projects (any module)	1-3

Associate in Arts, Fine Arts - Dance Total Credits: 64





ASSOCIATE IN ARTS (AAFA) FINE ARTS - ART

Description

TThe Maricopa County Community College District Associate in Arts, Fine Arts - Art degree requires a minimum of 63 semester credits for the program of study. The degree includes the following components:

I. General Education:

Arizona General Education Curriculum for Arts (AGEC-A) MCCCD Additional Requirements

II. Fine Arts Requirements – Art

Purpose of the Degree

The Associate in Arts, Fine Arts - Art degree is designed for students planning to transfer to four-year colleges and universities. In general, the components of the degree meet requirements for majors in the Fine Arts. The degree is designed to prepare students to meet selective admission criteria for programs such as the Bachelor of Fine Arts, which may require a portfolio or performance requirement.

The semester credits used to satisfy the MCCCD Associate in Arts, Fine Arts - Art degree will apply to university graduation requirements of the university major for which the degree is designed. Information regarding the articulation of the degree with majors at the Arizona public universities can be accessed via the following website: http://az.transfer.org/cas/atass/student/modpath.html

Academic Policies that Govern the Associate in Arts, Fine Arts - Art Degree

- Completion of the Associate in Arts, Fine Arts -Dance degree or the AGEC-A provides for exemption from Arizona public university admission requirements for Arizona residents who have a minimum Grade Point Average of 2.0 on a 4.0=A scale and a minimum 2.5 on a 4.0=A scale for non-residents.
- The graduation policies within the general catalog must be satisfied for completion of the Associate in Arts, Fine Arts Art degree.
- A minimum of 60 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- The General Education Requirements for AGEC-A may be completed in 35 semester credits with the following stipulations
 - o Courses can satisfy a Core Area and one or two Awareness Areas simultaneously
 - o A courses cannot be used to satisfy more than one Core Area
- General Education Courses can satisfy multiple areas within the degree simultaneously (AGEC-A Core Area, AGEC Awareness Area, MCCCD Additional Requirements, or lower-division courses applicable to the major).
- Effective Fall 2000, the course evaluation and/or general education designation as listed in the Arizona Course Equivalency Guide (CEG) 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. Students do have the option to petition for general education evaluations and/or general education designations upon transfer.

- Courses completed at one of the Maricopa Community Colleges to meet AGEC-A requirements must be listed in the Course Equivalency Guide within the Arizona Course Applicability System as an equivalent course, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities. The course's evaluation and/or general education designation is valid for the term in which the student is awarded credit on the transcript. See the list titled MCCCD Courses That Can Be used to Satisfy MCCCD AGEC-A, AGEC-B, and/or AGEC-S for specific course information via the following website: http://www.dist.maricopa.edu/academic/curric/
- Courses completed at one of the Maricopa Community Colleges to meet the General Electives requirement must be listed in the Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS) as an equivalent course, departmental elective credit (XXXDEC), or general elective credit (Elective) at all Arizona public universities. For appropriate course selection, students should consult with an advisor.
- Courses transferred from another regionally accredited institution to one of the Maricopa Community Colleges will be evaluated by the college for inclusion in the AGEC-A or Associate in Arts, Fine Arts-Art Degree.
- Courses and their modular equivalents will satisfy AGEC-A and Associate in Arts, Fine Arts Art requirements.
- If a course is cross-referenced with one or more other courses, then only one of the cross-referenced courses will be accepted to meet requirements.

Degree Requirements

The 64 semester credits required for the Associate in Arts, Fine Arts - Art degree follow. See the list titled MCCCD Courses That Can Be used to Satisfy MCCCD AGEC-A, AGEC-B, and/or AGEC-S for specific course information via the following website: http://www.dist.maricopa.edu/academic/curric/This list identifies the courses in alphaorder by prefix as well as the Core Areas and Awareness Areas where the course will apply. For purposes of clarifying requirements in the Mathematics and Natural Sciences areas on the list and the AGEC requirements, an A, B, and/or S character may follow the [MA], [SQ], [SG] general education designations and refers to the specific AGEC.

I. MCCCD General Education

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

MCCCDAGEC-A

1. Core Areas: Credits: 35

a. First-Year Composition (FYC): Credits: 6

b. Literacy and Critical Inquiry [L]: Credits: 3

Mathematical Studies [MA/CS]: Credits: 6
 To complete the Mathematical Studies requirement, select one course to satisfy 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]: Credits: 6
 Students are encouraged to choose course work from more than one discipline for a total of six semester credits.

Select the following:

Credits

ARH101 Prehistoric Through Gothic Art

2

- e. Social and Behavioral Sciences [SB]: Credits: 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]: Credits: 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 AZ Course Equivalency Guide (CEG) within the AZ Course Applicability System (AZCAS) for information on equivalencies.

2. Awareness Areas: Credits: 0 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]

Students must satisfy Oral Communication and Critical Reading areas. 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: Credits: 3
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.



Associate of Arts, Fine Arts - Art continued:

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: Credits:

3

Cradita

63

A total of three (3) semester credits is required for the Critical Reading area. However, if students complete CRE 101 and apply it to AGEC-A Core Requirements or if the students demonstrate proficiency through assessment, then the Critical Reading requirement has been satisfied and additional electives may be taken.

Select from the following options to complete 3 credits: CRE101 [L] (3 credits) OR equivalent as indicated by assessment

II. Fine Arts Requirements – Art Credits: 28

A minimum of 28 credits are required to satisfy the Fine Arts Requirements – Art.

Foundations: Credits: 16

Select the following:

		Creans
ADA/ART112	Two-Dimensional Design	3
ADA/ART115	Three-Dimensional Design	3
ARH102	Renaissance Through Contemporary Art	3
ART111	Drawing I	3
ART113	Color	3
ART255AB	The Portfolio	1

Restricted Electives: Credits: 12

Select from the following options to complete a minimum of twelve semester credits:

		Credits
ART116	Life Drawing I	3
ART122	Drawing and Composition II	3
ART131	Photography I	3
ART132	Photography II	3
ART151	Sculpture I	3
ART161	Ceramics I	3
ART165	Watercolor Painting I	3
ART167	Painting I	3

Associate in Arts, Fine Arts – Art Total Credits:





ASSOCIATE IN ARTS (AAFA) FINE ARTS - THEATRE

Description

The Maricopa County Community College District Associate in Arts, Fine Arts - Theatre degree requires a minimum of 60-64 semester credits for the program of study. The degree includes the following components:

I. General Education:

Arizona General Education Curriculum for Arts (AGEC-A) MCCCD Additional Requirements

II. Fine Arts Requirements - Theatre

Purpose of the Degree

The Associate in Arts, Fine Arts - Theatre degree is designed for students planning to transfer to four-year colleges and universities. In general, the components of the degree meet requirements for majors in the Fine Arts. The degree is designed to prepare students to meet selective admission criteria for programs such as the Bachelor of Fine Arts, which may require a portfolio or performance requirement.

The semester credits used to satisfy the MCCCD Associate in Arts, Fine Arts - Theatre degree will apply to university graduation requirements of the university major for which the degree is designed. Information regarding the articulation of the degree with majors at the Arizona public universities can be accessed via the following website: http://az.transfer.org/cas/atass/student/modpath.html

Academic Policies that Govern the Associate in Arts, Fine Arts - Theatre Degree

- Completion of the Associate in Arts, Fine Arts -Theatre degree or the AGEC-A
 provides for exemption from Arizona public university admission requirements
 for Arizona residents who have a minimum Grade Point Average of 2.0 on a
 4.0=A scale and a minimum 2.5 on a 4.0=A scale for non-residents.
- The graduation policies within the general catalog must be satisfied for completion of the Associate in Arts, Fine Arts Art degree.
- A minimum of 60 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- The General Education Requirements for AGEC-A may be completed in 35 semester credits with the following stipulations
 - o Courses can satisfy a Core Area and one or two Awareness Areas simultaneously
 - o A courses cannot be used to satisfy more than one Core Area
- General Education Courses can satisfy multiple areas within the degree simultaneously (AGEC-A Core Area, AGEC Awareness Area, MCCCD Additional Requirements, or lower-division courses applicable to the major).
- Effective Fall 2000, the course evaluation and/or general education designation as listed in the Arizona Course Equivalency Guide (CEG) 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. Students do have the option to petition for general education evaluations and/or general education designations upon transfer.



- Courses completed at one of the Maricopa Community Colleges to meet AGEC-A requirements must be listed in the Course Equivalency Guide within the Arizona Course Applicability System as an equivalent course, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities. The course's evaluation and/or general education designation is valid for the term in which the student is awarded credit on the transcript. See the list titled MCCCD Courses That Can Be used to Satisfy MCCCD AGEC-A, AGEC-B, and/or AGEC-S for specific course information via the following website: http://www.dist.maricopa.edu/academic/curric/
- Courses completed at one of the Maricopa Community Colleges to meet the General Electives requirement must be listed in the Course Equivalency Guide (CEG) within the Arizona Course Applicability System (AZCAS) as an equivalent course, departmental elective credit (XXXDEC), or general elective credit (Elective) at all Arizona public universities. For appropriate course selection, students should consult with an advisor.
- Courses transferred from another regionally accredited institution to one of the Maricopa Community Colleges will be evaluated by the college for inclusion in the AGEC-A or Associate in Arts, Fine Arts-Theatre Degree.
- Courses and their modular equivalents will satisfy AGEC-A and Associate in Arts, Fine Arts Theatre requirements.
- If a course is cross-referenced with one or more other courses, then only one of the cross-referenced courses will be accepted to meet requirements.

Degree Requirements

The 60-64 semester credits required for the Associate in Arts, Fine Arts - Theatre degree follow. See the list titled MCCCD Courses That Can Be used to Satisfy MCCCD AGEC-A, AGEC-B, and/or AGEC-S for specific course information via the following website: http://www.dist.maricopa.edu/academic/curric/ This list identifies the courses in alphaorder by prefix as well as the Core Areas and Awareness Areas where the course will apply. For purposes of clarifying requirements in the Mathematics and Natural Sciences areas on the list and the AGEC requirements, an A, B, and/or S character may follow the [MA], [SQ], [SG] general education designations and refers to the specific AGEC.

I. MCCCD General Education

The MCCCD General Education includes two areas: MCCCD AGECA and MCCCD Additional Requirements.

MCCCDAGEC-A

1. Core Areas: Credits: 35

a. First-Year Composition (FYC): Credits: 6

b. Literacy and Critical Inquiry [L]: Credits: Select the following:

Credits

THE220 Modern Drama

3

Mathematical Studies [MA/CS]: Credits: 6
 To complete the Mathematical Studies requirement, select one course to satisfy Mathematics [MA] A and a second course from Computer/Statistics/Quantitative Applications [CS].

51



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]: Credits: 6
 Students are encouraged to choose course work from more than one discipline for a total of six semester credits.
 Select the following:

Credits

THE205 Introduction to Cinema

3

- e. Social and Behavioral Sciences [SB]: Credits: 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]: Credits: 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 AZ Course Equivalency Guide (CEG) within the AZ Course Applicability System (AZCAS) for information on equivalencies.

2. Awareness Areas: Credits: 0 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]

Students must satisfy Oral Communication and Critical Reading areas. 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.



Associate of Arts, Fine Arts - Theatre continued:

a. Oral Communication: Credits:

3

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: Credits:

3

O 114

A total of three (3) semester credits is required for the Critical Reading area. However, if students complete CRE 101 and apply it to AGEC-A Core Requirements or if the students demonstrate proficiency through assessment, then the Critical Reading requirement has been satisfied and additional electives may be taken.

Select from the following options to complete 3 credits:

CRE101 [L] (3 credits) OR equivalent as indicated by assessment

II. Fine Arts Requirements – Theatre Credits: 25-29

A minimum of 25 credits are required to satisfy the Fine Arts Requirements – Theatre.

Foundations: Credits: 13

Select the following:

		Credits
THE111	Introduction to Theatre	3
THP112	Acting I	3
THP115	Theatre Makeup	3
THP201	Theatre Production I	1
THP213	Introduction to Technical Theatre	3

Restricted Electives: Credits: 12-16

Students may choose from the following courses to specialize in Acting, Technical Theatre, Teacher Education, or Cinema. Students should consult with the theatre advisor for the restricted electives recommended for each specialization track.

Select from the following options to complete a minimum of 12 semester credits:

		Credits
HUM/THE206	Introduction to Television Arts	3
HUM/THE210	Contemporary Cinema	3
THP120AB	Audition Techniques: Cold Readings	1
THP130	Stage Combat OR	
THP131	Stage Movement	3
THP210	Acting: TV/Film	3
THP211	Creative Drama	3
THP212	Acting II	3
THP214	Directing Techniques	3
THP216	Beginning Stage Lighting	3
THP217	Introduction to Design Scenography	3
THP219	Introduction to Puppetry	3
THP267	Painting Techniques for Film, TV and Theatre	e 3
THP271	Voice and Diction	3

Associate in Arts, Fine Arts - Theatre Total Credits:

60-64





Description

The Maricopa County Community College District Associate in Science degree requires 60-64 semester credits for the program of study. The degree includes the following components:

I. General Education:

Arizona General Education Curriculum for Science (AGEC-S) MCCCD Additional Requirements

II. General Electives

Purpose of the Degree

The Associate in Science degree is designed for students planning to transfer to four-year colleges and universities. In general, the components of the degree meet requirements for majors with more stringent mathematics and mathematics-based science requirements. The degree will transfer as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements.

The semester credits used to satisfy the MCCCD Associate in Science will apply to university graduation requirements of the university major for which the Associate in Science is designed. Information regarding the articulation of the Associate in Science with majors at the Arizona public universities can be accessed via the following website: http://az.transfer.org/cas/atass/student/modpath.html

Academic Policies that Govern the Associate in Science Degree

- Completion of the Associate in Science or the AGEC-S provides for exemption from Arizona public university admission requirements for Arizona residents who have a minimum Grade Point Average of 2.0 on a 4.0=A scale and a minimum 2.5 on a 4.0=A scale for non-residents.
- The graduation policies within the general catalog must be satisfied for completion of the Associate in Science degree.
- A minimum of 60 semester credits in courses numbered 100 and above to be completed with a grade of "C" or better;
- The General Education Requirements for AGEC-S may be completed in 35 semester credits with the following stipulations
 - Courses can satisfy a Core Area and one or two Awareness Areas simultaneously
 - o A courses cannot be used to satisfy more than one Core Area
- General Education Courses can satisfy multiple areas within the degree simultaneously (AGEC-S Core Area, AGEC Awareness Area, MCCCD Additional Requirements, or lower-division courses applicable to the major).
- Effective Fall 2000, the course evaluation and/or general education designation as listed in the Arizona Course Equivalency Guide (CEG) 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. Students do have the option to petition for general education evaluations and/or general education designations upon transfer.



Academic Policies that Govern the Associate in Science Degree continued:

- Courses completed at one of the Maricopa Community Colleges to meet AGEC-S requirements must be listed in the Course Equivalency Guide within the Arizona Course Applicability System as an equivalent course, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities. The course's evaluation and/ or general education designation is valid for the term in which the student is awarded credit on the transcript. See the list titled MCCCD Courses That Can Be used to Satisfy MCCCD AGEC-A, AGEC-B, and/or AGEC S for specific course information via the following website: http://www.dist.maricopa.edu/academic/curric/
- Courses completed at one of the Maricopa Community Colleges to meet
 the General Electives requirement must be listed in the Course Equivalency
 Guide (CEG) within the Arizona Course Applicability System (AZCAS)
 as an equivalent course, departmental elective credit (XXXDEC), or
 general elective credit (Elective) at all Arizona public universities. For
 appropriate course selection, students should consult with an advisor.
- Courses transferred from another regionally accredited institution to one
 of the Maricopa Community Colleges will be evaluated by the college for
 inclusion in the AGEC-S or Associate in Science Degree.
- Courses and their modular equivalents will satisfy AGEC-S and Associate in Science requirements.
- If a course is cross-referenced with one or more other courses, then only
 one of the cross-referenced courses will be accepted to meet requirements.

Degree Requirements

The 60-64 semester credits required for the Associate in Science follow. See the list titled MCCCD Courses That Can Be used to Satisfy MCCCD AGEC-A, AGEC-B, and/or AGEC S for specific course information via the following website: http://www.dist.maricopa.edu/academic/curric/ This list identifies the courses in alphaorder by prefix as well as the Core Areas and Awareness Areas where the course will apply. For purposes of clarifying requirements in the Mathematics and Natural Sciences areas on the list and the AGEC requirements, an A, B, and/or S character may follow the [MA], [SQ], [SG] general education designations and refers to the specific AGEC.

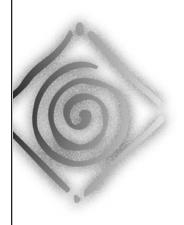
L MCCCD General Education

The MCCCD General Education includes two areas: MCCCD AGEC-S and MCCCD Additional Requirements.

MCCCDAGEC-S

1.	Core Areas:	35
	a. First-Year Composition (FYC)	6
	b. Literacy and Critical Inquiry [L]	3
	c. Mathematical Studies [MA/CS]	6

To complete the Mathematical Studies requirement, select one course to satisfy Mathematics [MA] S and a second course from Computer/Statistics/Quantitative Applications [CS].





1) Mathematics [MA] S (3 credits)

Select a calculus course MAT220 or MAT221), or any mathematics course for which MAT220 or MAT221 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.

f. Natural Sciences [SQ/SG]

8

To complete the Natural Sciences requirement:

Select eight (8) semester credits of either general chemistry (CHM151 & CHM151LL, and CHM152 & CHM152LL)

OR

Eight (8) semester credits of university physics (PHY115 & PHY116, or PHY121 & PHY131)

OR

Eight (8) semester credits of general biology, (BIO181 & BIO182) appropriate to the major.

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. 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)





MCCCD Additional Requirements continued:

b. Critical Reading

A total of three (3) semester credits is required for the Critical Reading area. However, if students complete CRE 101 and apply it to AGEC-S Core Requirements 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. General Electives

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

For students who have decided on a major that articulates with the AS, but who are undecided on the university to which they will transfer, courses satisfying the General Electives area should be selected from the list of Common Courses, Arizona Transfer Pathway Guides, and/or University Transfer Guides in order for the courses to apply in the major upon transfer.

The list of Common Courses for each major is included in the Arizona Transfer Pathway Guides. University Transfer Guides are also available for the Arizona public universities. These guides, both statewide and institutional, are accessible on the following web site: http://az.transfer.org/cas/students/transfer_guides.htm

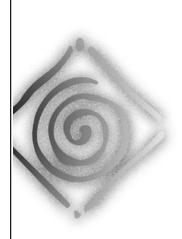
Students must select MCCCD courses that are acceptable as an equivalent course, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona CEG within the AZCAS. For appropriate course selection, students should consult with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

For some majors, students must demonstrate 4th semester proficiency at the 202 course level to satisfy the Non-English Language Requirements. Students should consult the Arizona Transfer Pathway Guides and/or the University Transfer Guides to determine this requirement for the major at the university to which they intend to transfer. If required, it is recommended that students choose Maricopa courses as electives to meet this requirement as part of the Associate in Science degree.

Students who are undecided on a major or university should consult an advisor. Not all majors have common courses, so it is recommended that students consult with an advisor for a list of common courses or assistance with selecting appropriate electives.

Associate in Science Total Credits:

60-64







ASSOCIATE IN BUSINESS, GENERAL REQUIREMENTS DEGREE (ABUS GR)

Description

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:

- MCCCD General Education, which includes Arizona General Education Curriculum for Business (AGEC-B)
- II. Common Lower Division Program Requirements
- III. General Electives.

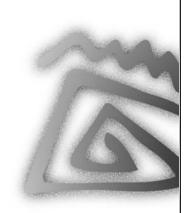
Purpose of Degree

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.

Academic Policies that Govern the Associate in Business General Requirements Degree:

- 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;
 - Courses can satisfy a Core Area and one or two Awareness Areas simultaneously.
 - O A course cannot be used to satisfy more than one Core Area requirement.
- Uses the following policies to help students complete the program requirements at a minimum of 62 semester credits but not more than 63 semester credits
- Courses can satisfy multiple areas within the degree simultaneously (AGEC B Core Area, AGEC B Awareness Area, and/or Common Lower Division Program Requirements)





Associate in Business Degree, General Requirements continued:

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.

- 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.

Degree Requirements

The 62-63 semester credits required for the Associate in Business General Requirements follow. See the list entitled MCCCD Courses That Can Be Used to Satisfy MCCCD AGEC A, AGEC B and/or AGEC S for specific course information via the following website: http://www.dist.maricopa.edu/academic/curric/

- Select Tab labeled, Curriculum Procedures Handbook-Programs
- Select Academic Programs
- Select AGEC Course Matrix

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

A. MCCCDAGECB

1. Core Areas: 35

a. First-Year Composition (FYC) 6

b. Literacy and Critical Inquiry [L] 3

Mathematical Studies [MA/CS]
To complete the Mathematical Studies requirement select one course to satisfy Mathematics [MA] B and a second course

from Computer/Statistics/Quantitative Applications [CS].

1) Mathematics [MA] B (3 credits) MAT212, Brief Calculus, or a higher level mathematics course

AND

2) Computers/Statistics/Quantitative Applications) [CS] (3 credits). Note: Students are encouraged to select GBS221 or CIS105 to satisfy [CS].



- d. Humanities and Fine Arts [HU] Students are encouraged to choose course work from more than one discipline for a total of six semester credits.
- 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.
- 8 Natural Sciences [SQ/SG] To complete the Natural Sciences requirement: Select four (4) semester credits of [SQ] and four (4) semester credits of [SG] for a total of (8) semester credits, OR eight (8) semester credits of [SQ]. Students cannot take eight (8) semester credits of [SG] to meet the Natural Sciences requirement.

The 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 AZ Course Equivalency Guide (CEG) within the AZ Course Applicability System (AZCAS) for information on equivalencies.

Awareness Areas

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

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

II. Common Lower Division Program Requirements:

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

Complete the following:

Accounting:

*ACC111 & ACC230 & ACC240

- **ACC211 & ACC212
- *MCCCD ACC250 or ACC211 may be taken in lieu of ACC111.
- **MCCCD ACC111 and ACC112 together are equivalent to ACC211.

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

6-7





Associate in Business Degree, General Requirements continued:

Business Elective:

3

Select from the following options:

CIS158 [CS] COBOL Programming I
CIS159 [CS] Visual Basic Programming I

CIS162AA [CS] C: Level I
CIS162AB [CS] C++: Level I
CIS162AC [CS] Visual C++: Level I

CIS162AD C#: Level I

CIS163AA [CS] Java Programming: Level I
GBS151 Introduction to Business
GBS233 [L] Business Communication
MGT251 Human Relations in Business

MGT253 Owning and Operating a Small Business

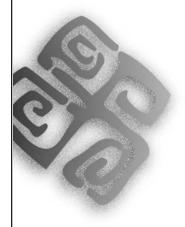
REA179 Real Estate Principles I

III. General Electives

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

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

ABus GR Degree Total Credits: 62-63







ASSOCIATE IN BUSINESS, SPECIAL REQUIREMENTS DEGREE (ABUS SR)

Description

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:

- I. MCCCD General Education which includes the Arizona General Education Curriculum for Business (AGEC B)
- II. Common Lower Division Program Requirements,
- III. General Electives.

Purpose of the Degree

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 is designed for all other business majors. Additional information on academic majors can be accessed via the following web site:

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

- Click on 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.

Academic Policies that Govern the Associate in Business Special Requirements Degree:

- 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;

Courses can satisfy a Core Area and one or two Awareness Areas simultaneously.

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)



Academic Policies that Govern the Associate in Business Special Requirement Degree Continued:

• 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 course evaluations and/or general education designations.

- requires courses that transfer as an equivalent course, departmental elective credit (XXXXDEC), or general elective credit (Elective) at all Arizona public universities according to the Arizona 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.

Degree Requirements

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

Select Tab labeled, Curriculum Procedures Handbook-Programs Select Academic Programs Select AGEC Course Matrix

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.	MO	CCCD Ge	eneral Education	Credits
	A.	MCCCI	DAGECB	
		1. Core Areas:		35
		a.	First-Year Composition (FYC)	6
		b.	Literacy and Critical Inquiry [L]	3
		c.	Mathematical Studies [MA/CS]	6
			To complete the Mathematical Studies requirement select on	ie
			course to satisfy Mathematics [MA] B and a second course	

from Computer/Statistics/Quantitative Applications [CS].

- 1) Mathematics [MA] B (3 credits)
- MAT212, Brief Calculus, or a higher level mathematics course AND
- 2) Computers/Statistics/Quantitative Applications) [CS] (3 credits). Note: Students are encouraged to select GBS221 or CIS105 to satisfy [CS].
- d. Humanities and Fine Arts [HU] 6
 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 (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 AZ Course Equivalency Guide (CEG) within the AZ Course Applicability System (AZCAS) for information on equivalencies.

2. Awareness Areas

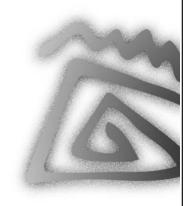
Students must satisfy two Awareness Areas: Cultural Diversity in the United States [C] and either Global Awareness [G] or Historical Awareness [H]. However, it is not necessary for students to exceed thirty-five semester credits to complete the Awareness Areas because courses can satisfy a Core Area 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]

II. Common Lower Division Program Requirements:

27-28

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





Academic Policies that Govern the Associate in Business Special Requirement Degree Continued:

Complete the following: Accounting: *ACC111 & ACC230 & ACC240 **ACC211 & ACC212 6-7 * MCCCD ACC250 or ACC211 may be taken in lieu of ACC111. **MCCCD ACC111 and ACC112 together are equivalent to ACC211. Programming I (Visual Basic): 3 CIS159 [CS] Programming II (Java) 3 CIS163AA [CS] 3 GBS205 3 GBS220 or MAT172 [MA] GBS221 [CS] 3 ECN111 [SB] 3 ECN112[SB] 3

III. General Electives 0-6

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

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

62-63







Purpose of the 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 education 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 web site:

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

ELEMENT CREDITS

Variable

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 the following areas. Other ATP degrees may be added later depending on curricular needs:

General Business Psychology
Housing & Urban Development Social Work
Accountancy Kinesiology

Construction Computer Information Systems

American Indian Studies Nutrition K-12 Classroom Instructional Support Nursing

Global Business Exercise and Wellness

Early Childhood Teacher Education Recreation

Molecular Biosicences/Biotechnology





Description

The Maricopa County Community College District Associate in General Studies (AGS) degree is recommended for students whose educational goals require flexibility. The AGS allows students to choose any elective courses numbered 100 or above to complete the degree. Therefore, this degree may be less appropriate for students who intend to transfer to a baccalaureate-granting institution.

Students who demonstrate skills comparable to those in Critical Reading and/or Mathematics and/or Computer Usage may substitute acceptable elective courses to satisfy the total credits required for the degree.

Academic Policies that Govern the Associate in General Studies Degree:

- 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 and underscored in the Core areas and Distribution areas.
 - A course cannot satisfy more than one Core area, even if it is approved for more than one Core area.
 - 3. A course cannot satisfy more than one Distribution area, even if it is approved for more than one Distribution area.
- follows the graduation policies within the general catalog;
- includes both courses and their modular equivalents; either the course or the modular equivalents will satisfy the Associate in General Studies;
- accepts one of the courses that is cross-referenced with other courses;
- provides for exemption from Arizona university admission requirements for students who complete the Associate in General Studies degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.







Degree Requirements:

GENERAL EDUCATION CORE

(16 credits - grade of "C" or better)

First-Year Composition (6 credits)

ENG English [101/107] & [102/108]

Oral Communication (3 credits)

COM Communication 100/100AA & 100AB & 100AC/110/110AA &110AB & 110AC/225/230

Critical Reading (3 credits)

CRE Critical Reading 101/Equivalent as indicated by assessment

Mathematics (3 credits)

MAT Mathematics 102/105/120/121/122/122AA/122AB/122AC/126/140/141/142/150/151/151AA/151AB/151AC/151AD/152/156/172/182/187/206/212/213/220/221/225/227/230/231/240/241/251/261/262/ Equivalent course Satisfactory completion of a higher level Mathematics course. GBS General Business 220

Computer Usage (1 credit)

HRM

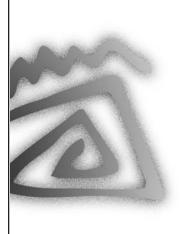
JRN

Hotel Restaurant Management 126

Journalism 133

Computer-related course or demonstration of comparable computer skills. Additional courses may be approved by individual colleges. Students should contact their advisor for college-specific courses satisfying the requirement.

ACC	Accounting 115/115AA/115AB/115BA/115BB			
ADA	Advertising Arts 169/170/170AA/170AB/173/173AA/173AB/173AC/175/			
	175AA/175AB/177/177AA/177AB/any 180 modules/183/183AA/183AB/			
	183AC/283/283AA/283AB/283AC/289/289AA/289AB/289AC			
AGB	Agribusiness 139			
AJS	Administration of Justice Studies 117/119/205			
ARC	Architecture 243/244/245			
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			
BIO	Biology 219			
BPC	Business-Personal Computers Any BPC Course(s)			
CFS	Child/Family Studies 180			
CIS	Computer Information Systems Any CIS Course(s)			
CSC	Computer Science Any CSC Course(s)			
CTR	Court Reporting 101/102			
DFT	Drafting Technology 103/105/any 105 module/150/251/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 115/131/150/181/241/243/245/281			
ELT	Electronic Technology 131/131AA/131AB/241/243/249/273/281/282			
ENG	English 100AE			
FON	Food & Nutrition 100/100AA/100AC/100AD/140BC			
GPH	Physical Geography 219/220			



LAS	Legal Assisting 229
LBT	Library Technology 106
MAT	Mathematics 206

MET Manufacturing Technology 105AA/140/264

MTC Music Theory/Composition 191

NET Networking Technology 181/181AA/181AB/247

OAS Office Automation Systems 111AA/111AB/113/113AA&113AB/119/130/any 130

module/any 135 module/any 235 module

PSY Psychology 230

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 202/211/222/223

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 101/102/103/109/111/243

HUM Humanities Any HUM course(s) (EXCEPT 203,207)

INT Interior Design 105/115/120/225

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 241/242/265/266

SPH Spanish Humanities 150/151/245

STO Storytelling 292/294

SWU Social Work 102/171/258/292 TCM Telecommunication 145

THE Theater 111/205/206/210/220/260
THP Theater/Performance/Production 241
WST Women's Studies 209/284/285

Social and Behavioral Sciences (9 credits)

Students are encouraged to choose courses from more than one discipline

AIS American Indian Studies 101/105/140/141/160/170

AFR African American Studies 110/202/203/204

AJS Administration of Justice Studies 119/200/225/258/259/270 ASB Anthropology 100/102/202/211/214//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





Associate in General Studies Degree continued:

T/CNT	E
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 102/121/122/141/221/223/253

HES Health Science 100

HIS History any HIS Course(s)
IBS International Business 109
MCO Mass Communications 120

PHI Philosophy 243

POS Political Science Any POS course(s)

PSY Psychology 101/123/132/156/157/215/218/225/235/240/245/250/258/259/

260/266/270/277/280/281/292

REC Recreation 120/160
REL Religious Studies 243
SBU Society and Business 200

SOC Sociology Any SOC course(s) (EXCEPT 242)

SWU Social Work 102/171/258/292 TEC Textiles and Clothing 105/106 WED Wellness Education 100/110

WST Women's Studies 100/105/110/120/160/161 YAQ Yaqui Indian History & Culture 100

Natural Sciences (7-8 credits)

Two lecture courses and one corresponding laboratory courses 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 104/265

AST Astronomy 101/102/111/112/113/114

BIO Biology 100/101/102/105/107/108/109/145/149AF/149AH/149AI/149AJ/149AK/149AL/149AM/AN/150/156/160/181/182/201/205/241/247

CHM Chemistry 107/107LL/130/130LL/151/151LL/152/152LL/154/154LL/230/230LL

FON Food and Nutrition 241 &241LL

FOR Forensic Science 105

GLG Geology Any GLG course(s)

GPH Physical Geography 111/112/113/210/211/212 & 214/213/215

ISS Interdisciplinary Science Studies 111/112

PHS Physical Science 110/120

PHY Physics 101/111/112/115/116/121/131/252

PSY Psychology 290AB/290AC

Literacy & Critical Inquiry (3 credits)

AIS American Indian Studies 213
CCS Chicana and Chicano Studies 101

COM Communication 207/222/225/230/241

CRE Critical Reading **101**DAH Dance Humanities 201

ENG English 111/200/213/215/216/217/218

ENH English Humanities 254/255





FON Food & Nutrition 206 GBS General Business 233

GPH Physical Geography 211/212&214

HCR Health Care Related 220 HUM Humanities 250/251 IFS Information Studies 101

IGS Integrated Studies 290AA&290AB/291/293

JRN Journalism 201/212/234
MCO Mass Communications 220
MHL Music: History/Literature 140
PHI Philosophy 103/106/225
POS Political Science 115
PSY Psychology 290AB/290AC

REL Religious Studies 101/203/205/225

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.





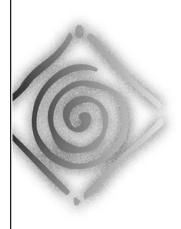


Purpose of Degree

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.

Academic Policies that Govern the AAS Degree

- requires 60 or more credits numbered 100 or 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.
- Shared Programs are programs offered at multiple colleges but not available at all college. The requirements are identical at all the colleges offering the program.
- A Shared program requires a minimum of six credit hours from the total program requirements to be completed with a grade of "C" or better at the college awarding the certificate or degree. The exception is the Nursing program. For those shared programs with less than six credit hours, the total hours for the program must be completed at the college awarding the 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:
- Student must apply for graduation from the college where they have successfully completed Block 4 of the Associate in Applied Science in Nursing.
- 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;
- provides for exemption from Arizona university admission requirements for students who complete the Associate in Applied Science (AAS) degree from a regionally accredited post-secondary institution with a minimum 2.0 on a 4.0=A scale for Arizona residents and a minimum 2.5 on a 4.0=A scale for non-residents.





GENERAL EDUCATION CORE

(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 Mathematics102/105/120/121/122/122AA/122AB/122AC/126/142/150/151/151AA/151AB/151AC/151AD/152/156/162/172/182/187/206/212/220/221/225/227/230/231/240/241/251/261/262/Equivalent course/Satisfactory

completion of a higher level mathematics course.

GBS General Business 220

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 202/211//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 101/102/103/111/243

HUM Humanities Any HUM course(s)(EXCEPT 203, 207)

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 241/242/265/266

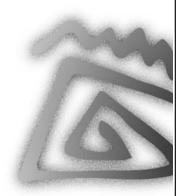
SPH Spanish Humanities 150/151/245

STO Storytelling 292/294 TCM Telecommunication 145

THE Theater 111/205/206/210/220/260

THP Theater/Performance/Production 241

WST Women's Studies 209/284/285





Associate in Applied Studies Degree continued: Social and Behavioral Sciences (3 credits)

Students are encouraged to choose courses from more than one discipline.

AIS American Indian Studies 101/105/140/141/160/170

AFR African American Studies 110/202/203/204

AJS Administration of Justice Studies 200/258/259/270

ASB Anthropology 100/102/202/211/214/222/223/230/235/238/245

ASM Anthropology 104

CFS Child/Family Studies 157/159/176/205/259

COM Communications 100/100AA & 100AB & 100AC/110/110AA & 110AB & 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 102/121/122/141/221/223/253

HES Health Science 100

HIS History Any HIS course(s)
IBS International Business 109
MCO Mass Communications 120

PHI Philosophy 243

POS Political Science Any POS course(s)

PSY Psychology 101/123/125/132/156/157/215/218/225/235/240/245/250/258/259/

260/266/270/277/280/281/292

REC Recreation 120/160
REL Religious Studies 243
SBU Society and Business 200

SOC Sociology Any SOC course(s) (EXCEPT 242)

SWU Social Work 102/171/258/292
TEC Textiles and Clothing 105/106
WED Wellness Education 100/110

WST Women's Studies 100/105/110/120/160/161 YAQ Yaqui Indian History and Culture 100

Natural Sciences (4 credits)

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.

AGS Agricultural Science 164

ASB Anthropology 231 ASM Anthropology 104/265

AST Astronomy 101/102/111/112/113/114

BIO Biology 100/101/102/105/107/108/109/145/149AN/150/156/160/181/182/201/205/241//247

Chemistry 107/107LL/130/130LL/151/151LL/152/152LL/154/154LL/230/230LL

FON Food and Nutrition 241 &241LL

FOR Forensic Science 105

CHM

GLG Geology Any GLG course(s) (EXCEPT 140/251MC/275)

GPH Physical Geography 111/112/113/212/213/214/215

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





ACADEMIC CERTIFICATE

Purpose of the Academic Certificate

The Maricopa Community College District Academic Certificate (area of emphasis) 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 (area of emphasis) may be derived from a variety of disciplines or it can be discipline specific. The Academic Certificate does not require a general studies component even though requirements of the certificate may include courses that currently meet specific general studies designations such as Humanities and Fine Arts, Social and Behavioral Sciences, etc.

Academic Policies that Govern 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





Division Chair - Liberal Arts - Kathleen Iudicello (623) 935-8460

Certificate: Interdisciplinary Storytelling

Advance Interdisciplinary Storytelling

Interdisciplinary Storytelling Certificate Requirements

Program Description: This academic certificate emphasizes the presentation of interdisciplinary and multi-cultural stories through live performance or through multimedia. Opportunities are provided to explore a variety of art forms and cultural perspectives to enhance creative content development.

Program Prerequisites: (3 Credits)

+ENG101	First-Year Composition (3) OR
+ENG107	First-Year Composition for ESL (3) OR
	Equivalent as indicated by assessment

Required Courses:	(7 Credits)	Credits
+STO282AA	Voluntaryism for Education: A Service	
	Learning Experience	1
EDU/HUM/STO292	The Art of Storytelling	3
EDU/ENH/STO294	Multicultural Folktales	3
AND		

Select on of the following tracks:

Track 1: Performance Emphasis: 9 Credits

Note: Student shoul	ld select 2 courses from the following courses for total	l of 6
credits in consultation	on with a department/division advisor:	
+COM/THP241	Performance of Literature	3
COM263	Elements of Intercultural Communication	3
+DAH201	World Dance Perspectives	3
+HUM250	Ideas & Values in the Humanities	3
HUM120	Cultural Viewpoints in the Arts	3
STO286	Using Storytelling in a Variety of Settings	3
STO288	Telling Sacred Stories from Around the	
	World	3

Creating and Telling Personal Stories

3

3

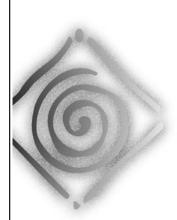
OR

+STO297

Track 2: Digital Emphasis: Credit 9

+ART/ADA173 Computer Art Note: Students should select 2 courses from the following courses for a total of 6 credits in consultation with the department/division advisor: ART131 Photography I		
credits in consultation with the department/division advisor:	+ART/ADA173	Computer Art
<u>.</u>	Note: Students should	select 2 courses from the following courses for a total of 6
ART131 Photography I	credits in consultation	with the department/division advisor:
	ART131	Photography I

credits in consultation	with the department/division advisor.	
ART131	Photography I	3
+ADA/ART177	Computer-Photographic Imaging	3
+ART298AC	Special Projects	3
HUM120	Cultural Viewpoints in the Arts	3
+HUM250	Ideas & Values in the Humanities	3
STO286	Using Storytelling in a Variety of Settings	3
STO288	Telling Sacred Stories from Around the	
	World	3
+STO297	Creating and Telling Personal Stories	3
(Note: + indicates course has prerequisites and/or corequisities)		





Advanced Interdisciplinary Storytelling Certificate Requirements

Program Description: The academic certificate program emphasizes the presentation of interdisciplinary and multi-cultural stories through live performance or through multimedia. This Advanced Interdisciplinary Storytelling Certificate provides students the opportunity to develop deeper understanding of points of view and to advance their artistic skills to achieve their fine arts goals. Opportunities are provided to explore a variety of art forms and cultural perspectives to enhance creative content development. Students can choose to concentrate study within a specific culture and/or to refine artistic ability to create compelling original stories.

Program Prerequisites: (19 Credits)

Certificate of Completion in Interdisciplinary Storytelling and

+ENG102 First Year Composition (3) OR

Required Courses:
+STO293
Note: Student should select a total of 12 credits in consultation with a department/

Track 1: Performance Emphasis: 12 Credits

division advisor:

	•	
ARH145	History of American Indian Art	3
ARH201	Art of Asia	3
ARH217	Mexican Art History	3
ART111	Drawing I	3
+CCS/ENH212	The Mexican American Novel	3
COM/THP243	Interpreters Theatre	3
+ENG210	Creative Writing	3
+ENG217	Personal and Exploratory Writing	3
ENH117	Rap Literature: The Oral Tradition	3
+ENH205	Asian American Literature	3
ENH259	American Indian Literature	3
HUM/WST209	Women and Films	3
MHL143	Music in World Cultures	3
MHL147	Music of African American Cultures	3
MUP225	Class Guitar I	2
STO289AA	Using Storytelling in Educational Settings	1
STO289AB	Using Storytelling in Business Settings	1
STO289AC	Using Storytelling in Healing Settings	1
THP112	Acting I	3

Track 2: Digital Emphasis: 12 Credits

+ENG217 Personal and Exploratory Writing (3) or HUM107 Humanities Through the Arts (3) 3

Choose 6 credits of the following:

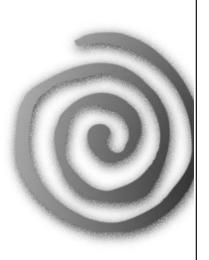
Note: Student should select a total of 6 credits in consultation with a department/division advisor:

uivision auvisor.		
ADA/ART112	Two-dimensional Design	3
ARH120AA	Understanding Art: Black Art	2
ARH145	History of American Indian Art	3
ARH201	Art of Asia	3
ARH217	Mexican Art History	3
HUM/WST209	Women and Films	3
MHL143	Music in World Culture	3
MHL147	Music of African American Culture	3
STO289AA	Using Storytelling in Business Settings	1
STO289AB	Using Storytelling in Educational Settings	1
STO289AC	Using Storytelling in Healing Settings	1

Choose 3 credits of the following:

Note: Student should select a total of 3 credits in consultation with a department/division advisor

urvision auvisor		
ART111	Drawing I	3
+ENG210	Creative Writing	3
MHL156	Music in Latin America and the Caribbean	3
MHL140	Survey of Music History	3
MHL145	American Jazz & Popular Music	3
MHL155	Survey of American Music	3
MUP225	Class Guitar I	3







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:

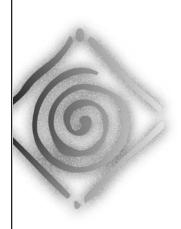
 be credited in the Office of Admissions and Records with not fewer than: 60 semester credit units in courses numbered 100 or above for the Associate in Arts degree, Associate in Science degree, Associate in Transfer Partnership degree, and Associate in General Studies degree; 60 semester credit units 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.

- 2. have earned a minimum of 12 semester credit units toward the degree or certificate at the district college granting the degree or certificate. In cases where the certificate requires fewer than 12 credit units, a minimum of six credit units, must be completed at the college awarding the certificate.
- 3. have filed an application for the degree or certificate with the Office of Admissions and Records on the date determined by the college/center.
 - Students must apply for graduation from the college where they have successfully completed Block 4 of the Associate in Applied Science in Nursing.
- 4. have a minimum cumulative grade point average of 2.000 at the college granting the degree.
- 5. have a minimum cumulative grade point average of 2.000 in all courses used to fulfill degree requirements
 - Some specific programs have higher grade requirements. It is the student's responsibility to be aware of these program requirements.
- 6. have removed, thirty (30) days after the anticipated graduation date, all deficiencies on the record to use those courses toward program completion.
- 7. have removed any indebtedness to any MCCCD college /center.
- 8. have paid required degree or certificate application fee.

See fee schedule for charges.

See Graduation with Honors for information on honors designation.



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) General Education Certificate; (4) Associate in Arts; (5) Associate in Science; (6) Associate in Business; (7) Associate in General Studies; (8) Associate in Transfer Partnership; (9) 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.

GRADUATE GUARANTEE POLICY

The Governing Board believes so strongly in the quality of its colleges' occupational training programs that it guarantees graduate competence.

- Graduation from an Associate of Applied Science (AAS) is designed to prepare a
 person for entry-level employment in a specific career field. A graduate's ability to
 perform approved program competencies will be judged by employers. Should the
 employer of a graduate who has earned an AAS Degree find the employee lacking
 in the technical skills normally expected of an entry-level employee in the specific
 career field for which that graduate prepared, the District will provide the graduate
 with up to the equivalent of twelve (12) credit hours of retraining for no additional
 tuition.
- Because technical occupations change rapidly, initial employment in an AAS Degreerelated field must occur within one year of graduation from the AAS Degree program in question.

Retraining needs to occur as cost effectively as possible. The graduate's employer must present a list of the graduate's skill deficiencies to the appropriate dean at the graduate's alma mater. All retraining will be completed in a reasonable time as agreed to by the employer, the student, and the college.

LICENSURE DISCLAIMER

Maricopa Community Colleges courses and programs prepare students for entry into a variety of professions. Many of these professions require that a person hold an occupational license or certificate in order to work in a particular field. Typically, a person must meet certain legal requirements before obtaining such a license or certificate. These requirements are established by county, state or federal agencies, and often are based on a person's character, or whether the person has been convicted of a criminal offense. It is possible for a student who has obtained a degree or certificate from a community college to be denied the right to work in a particular profession after completing the degree or certificate because of concerns over the student's character or criminal background. Any student preparing to enter a field for which a professional license or certificate is required is strongly advised to consult with the appropriate government agency that issues such credentials. That agency can provide the student complete information about any requirements the law imposes for working in a particular occupation.





MCCCD General Education Statement

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.





CATALOG UNDER WHICH A STUDENT GRADUATES (AR2.2.5)

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.

EXAMPLEA:

Admitted & Earned Course Credit at a Public Community

College or University

Continued at a Public Community College

Transferred to a University

Fall '93

Spring '94, Fall '94

(Active)

Spring '95

(1993 or Any

Subsequent 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) Fall '93 Enrolled in Audit Courses Only (Inactive) Nonattendance Spring '94 (Inactive) Transferred to a University Fall '94 (1994 or Any Subsequent Catalog)

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

EXAMPLE A:

Admitted & Earned Course Credit at a Public Community

College or University Fall '92 (Active)

Nonattendance Spring '93,

Fall '93,

Spring '94 (Inactive)

Readmitted & Earned Course Credit at a Public Community

College Fall 94 (Active)
Transferred to a University Spring '95 (1994 or Any

Subsequent Catalog)

EXAMPLE B:

Admitted & Earned Course Credit at a Public Community

College or University Fall 92 (Active) Nonattendance Spring '93 (Inactive)

Readmitted & Earned Course Credit at a Public Community

College Summer '93 (Active)
Nonattendance Fall '93, Spring '94 (Inactive)
Transferred to a University Fall '94 (1992 or Any
Subsequent Catalog)



- *Students are not obligated to enroll and earn course credit during summer terms, but summer enrollment may be used to maintain continuous enrollment status.
- Students admitted or readmitted to a public Arizona community college or university
 during a summer term must follow the requirements of the catalog in effect the
 following fall semester or of any single catalog in effect during subsequent terms
 of continuous enrollment.

EXAMPLE:

Admitted & Earned Course Credit at a Public Community

College or University

Continued at a Public Community College

Nonattendance

Readmitted & Earned Course Credit at a Public

Community College

Spring 194

(Active)

Fall '94, Spring '95

(Inactive)

Fall '95

(Active)

Community College Spring '96 (Active)
Transferred to a University Summer '96 (1994 or Any
Subsequent Catalog)

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

University Department Time Limit for Coursework

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

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





In direct response to the ever growing need for highly qualified P-12 teachers and in support of the many communities it serves, the Maricopa Community College District has made a strong commitment to contributing to the recruitment and training of early childhood, elementary, secondary, and special education school teachers. With quality curriculum and excellent instruction as the primary focus of its faculty, the Maricopa colleges are well positioned to provide state and national leadership in the quality and nature of instruction thus helping students to become excellent teachers through the offering of current and responsive teacher education course work.

The District also supports professional development for certified teachers through the offering of course work, seminars, workshops and specialized training. This includes Bilingual Education, Computer Science, English as a Second Language (ESL), Math Specialist, Middle School, Reading Specialist, and Structured English Immersion (SEI).

In support of this commitment, the Maricopa Community College District offers teacher education course work, degrees, and /or programs at all 10 Maricopa Colleges.*

Teacher Education Options Available To Students

Instructional Aide/Associate/Paraprofessional Preparation

- Associate in Arts in Elementary Education (AAEE): designed for the student
 who plans to transfer to an Elementary Education program (also Special
 Education) at any partner 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. (Offered at all 10 Maricopa Community Colleges)
- Associate in Applied Science (AAS) in Teacher Assisting: prepares students for employment as an assistant to the classroom teacher in grades K-12. It provides foundation work, which will allow the aide to pursue a higher degree in the field of education. (Offered at EMCC & GWCC)
- Associate of Applied Science (AAS) in Instructional Assistance: prepares students to work as instructional assistants. The program emphasizes the philosophical, cultural, and linguistic processes involved in teaching children. Students develop knowledge and skills required of the instructional assistant through a combination of courses in methodology and practicum experience (Offered at MCC & PC)
- Associate in Transfer Partnership (ATP) in K-12 Classroom Instructional Support: designed for students planning on becoming an Instructional Associate/Paraprofessional in K-12. Transfers as a block without loss of credit to Charter Oak State College. (Offered at EMCC, MCC, and RSC)
- Certificate of Completion (CCL) in Instructional Assistance: provides
 coursework which focuses on meeting the educational needs of learners. All
 Certificate Program requirements can be used toward completion of the
 Instructional assistance AAS Program. (Offered at MCC & PC)



Elementary Education Teacher Preparation

- Associate in Arts in Elementary Education (AAEE): designed for the student
 who plans to transfer to an Elementary Education program (also Special
 Education) at any partner 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. (Offered at all 10 Maricopa Community Colleges)
- Associate in Transfer Partnership (ATP) in Elementary Education: designed for students planning to transfer into Elementary Education at Arizona State University Main and Arizona State University West. Transfers as a block without loss of credit. (Offered at all 10 Maricopa Community Colleges)
- Baccalaureate Partnership Program with Charter Oak State College: designed for students in elementary education who will transfer to Charter Oak State College after completing 90 credits at the community college. (Offered at RSC)

Elementary and Special Education Teacher Preparation

- Associate in Arts in Elementary Education (AAEE): designed for the student
 who plans to transfer to an Elementary Education program and Special
 Education at any partner 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. (Offered at all 10 Maricopa Community Colleges)
- Urban Teacher Corps: a teacher development program that supports urban classified school district employees in Phoenix to successfully complete a bachelor's degree in Education and return to their school districts as teachers.
 After completion of lower division courses, UTC participants transfer to the initial Teacher Certification program at Arizona State University, Tempe.
 (Offered at PC)

Elementary, Secondary & Special Education Teacher Preparation

- **Aztec/Education:** housed in the Office of Program Articulation, this program assists and supports students throughout the first two years of their bachelor's degree in elementary, secondary, or special education. (Offered at GCC)
- Dynamic Learning Teacher Education Program: a four-semester cohort model
 designed to prepare future teachers to transform inner city schools. It is based
 on current research on teaching and learning and utilizes a team-taught
 interdisciplinary curriculum with strong partnerships with community schools
 and Arizona State University. (Offered at SMCC)
- **inspire.teach:** a program that supports and encourages the choice of teaching as a profession. It reflects a commitment among secondary, community college, and university partners to inspire students from under-represented groups to explore, pursue and excel in teaching careers. (Offered at EMCC)
- The Teacher Connection: designed to identify, connect, and support individuals as they work toward careers in teaching. It reflects a commitment among Cave Creek Unified School District, Paradise Valley Unified School District, Paradise Valley Community College, and ASU West's College of Education to inspire a diverse population of students to explore, pursue, and excel in teaching careers. (Offered at PVCC)
- Teaching and Learning Communities (TLC) Education Program: a student support program structured in a 4-semester plan with courses selected to enhance students' knowledge of teaching as a career and to prepare for certification. (Offered at MCC)



- Teachers Today and Tomorrow (T3): this two-semester interdisciplinary learning
 community combines English, Education, and Technology. After two semesters,
 education courses along with technology courses designed for teacher
 education majors compliment the general education courses required for
 university transfer. (Offered at CGCC, Williams Campus)
- General Studies and Subject Matter Courses: designed to fulfill lower division general education requirements for students planning to transfer to public or private community colleges or universities. (Offered at all Maricopa Community Colleges)
- Post Baccalaureate Teacher Prep Programs: prepares students with a
 baccalaureate degree to become a certified Elementary (K-8), Secondary (7-12),
 or Special Education (K-12) teacher. The programs are approved by the Arizona
 Department of Education. (All programs offered online at RSC; elementary
 (K-8) offered on campus at SCC).

Master's Degree Partnerships for Students who complete the Rio Salado College and Scottsdale Community College Teacher Prep Programs:

- Master's Degree Partnership with North Central University: 18 credits of the post baccalaureate teacher prep program can be applied toward the 36 credits required for an online MS in Education Degree. (Offered at RSC)
- Master's Degree Partnership with Plymouth State University: 18 credits of
 the post baccalaureate teacher prep program can apply toward the 33 credits
 required for an online MS in Education Degree. (Offered at RSC, SCC)
- Master's Degree Partnership with Walden University: Up to 12 credits of the post baccalaureate teacher prep program can apply toward the 30 credits required for an online MS in Education Degree. (Offered at RSC, SCC)

Professional Development for Certified Teachers

- Certificate of Completion (CCL) in Bilingual Endorsement: designed for certified teachers pursuing bilingual endorsement. Includes all coursework required for state issued Bilingual Endorsement as specified by the Arizona Department of Education. Valid Arizona teaching certificate is required for state endorsement. (Offered at MCC, PC)
- Certificate of Completion (CCL) in English as a Second Language (ESL)
 Endorsement: designed for certified teachers pursuing ESL endorsement.
 Includes all coursework required for state issued English as a Second Language
 Endorsement as specified by the Arizona Department of Education. Valid teaching certificate is required for state endorsement (Offered at MCC, PC)
- Certificate of Completion (CCL) in Reading Specialist Endorsement: qualifies
 certified teachers for the Reading Specialist Endorsement as specified by the
 Arizona Department of Education. Includes all coursework required for those
 with valid Arizona teaching certificates to qualify for the Reading Specialist
 Endorsement in Arizona. (Offered at MCC, PC)
- Professional Development Endorsement Courses for K-12 Teachers: courses
 have been designed and are accepted by the Arizona Department of Education
 and lead to endorsements in Computer Science, Structured English Immersion
 (SEI), English as a Second Language (ESL), Math Specialist, Reading Specialist,
 and Middle School. (All courses offered online at RSC; MCC offers Reading
 and ESL on campus)
- * Note: (1) Refer to specific college catalog for degree, program and course information.
 - (2) Students are strongly encouraged to seek academic advisement prior to enrolling.



Early Childhood Education & Family Studies Options Available To Students

It is important to note that there is a wide range of difference in educational requirements for early childhood education teachers both locally and nationally. Given this, it is important that you check with the contact person at the college you are planning to attend prior to enrolling in course work.

Associate Degrees

- Associate of Applied Science (AAS) in Early Childhood Education: prepares
 individuals to work with children in early childhood programs, with a
 specialization in either center-based, family childcare, or administration of early
 childhood programs. Courses are scheduled to accommodate those who are
 already working in the field. (Offered at GCC)
- Associate in Applied Science (AAS) in Early Childhood Education: designed
 to prepare students for employment as early childhood teachers in a variety of
 educational programs. Students learn effective teaching skills as they apply
 developmentally appropriate early childhood educational theory in the
 classroom setting. Courses have been selected with a focus on developing an
 educational career ladder. (Offered at PVCC)
- Associate in Applied Science (AAS) in Early Childhood Development: designed
 to meet the needs of individuals who are interested in working in early
 childhood. The program emphasizes working with multi-linguistic and multicultural children. Upon completion students will be equipped to work
 effectively with children and families in both school and home environments
 and also initiate upward career movement or improve existing skills. (Offered
 at SMCC)
- Associate in Applied Science (AAS) in Early Childhood Development: prepares individuals to assume entry-level positions within nursery schools, pre-schools, and day care centers. (Offered at SCC)
- Associate in Applied Science (AAS) in Child Development: includes a sequence of interactive classes and a variety of field experiences. Unique student teaching opportunities are offered in the Evelyn H. Warren Child Development Lab, a multi-age preschool that is accredited by the National Association for the Education of Young Children. (Offered at MCC)
- Associate in Applied Science (AAS) in Family Life Education: prepares individuals to enter the family life education, human development, or child and family organizations field at the paraprofessional level. (Offered at GCC, MCC, SCC)
- Associate in Applied Science (AAS) in Family Resources: prepares students
 to work with families, identify needs, and acquire resources that strengthen
 family functioning. Includes skills in assessing and controlling needed
 resources, decision making, problem solving, communication, parenting, and
 child development education. (Offered at PC)
- Associate in Transfer Partnership (ATP) in Early Childhood Education: designed for students planning on becoming a certified teacher in Early Childhood Education (Birth through 3rd grade). Transfers as a block without loss of credit to Northern Arizona University. (Offered at GCC, MCC, PC, PVCC, RSC, and SCC)



Certificates of Completion

- Certificate of Completion (CCL) in Early Childhood Education: designed for
 those who are interested in studying and working with young children. It
 prepares individuals to work with children in early child programs, with a
 specialization in either center-based or family child care. Courses are scheduled
 to accommodate those who are already working in the field. (Offered at GCC)
- Certificate of Completion (CCL) in Early Childhood Education: designed to prepare students for employment as early childhood teachers in a variety of educational programs. Students learn effective teaching skills as they apply developmentally appropriate early childhood educational theory in the classroom setting. Courses have been selected with a focus on developing an educational career ladder. (Offered at PVCC)
- Certificate of Completion (CCL) in Early Childhood Development: prepares
 individuals to assume entry-level positions within nursery schools, pre-schools,
 and day care centers. (Offered at SCC)
- Certificate of Completion (CCL) in Early Childhood Development: designed to meet the needs of individuals who are interested in working in early childhood. Emphasis on working with multi-linguistic and multi-cultural children. Upon completion students will be equipped to work effectively with children and families in both school and home environments and also initiate upward career movement or improve existing skills. (Offered at SMCC)
- Certificate of Completion (CCL) in Child Care: designed to increase understanding of the education and care of young children. (Offered at MCC)
- Certificate of Completion (CCL) in Classroom Management for Infants,
 Toddlers, and Preschool Children: designed for understanding infants,
 toddlers & preschool children and managing their early childhood classroom
 settings. Focuses on key areas related to early childhood. (Offered at PC)
- Certificate of Completion (CCL) in Family Support: designed to enhance the
 education and career of individuals interested in working with families or in
 agencies that provide services to families, or in agencies that provide services
 to families, or those who are presently involved with families or their supporting
 agencies. (Offered at PC)
- Certificate of Completion (CCL) in Infant Toddler Development: prepares
 individuals to serve children from birth through age three years and their
 families. (Offered at SCC)
- Certificate of Completion (CCL) in Parent Education: prepares individuals to enter the family life education with a focus on parent education. (Offered at GCC, MCC, SCC)
- Certificate of Completion (CCL) in Adolescent Studies: designed to prepare
 individuals preparing to work or those who are employed in professions that
 require interaction with adolescents and/or adolescent-related issues such as
 school personnel, parents, health educators, etc. (Offered at PC)
 - * **Note:** (1) Refer to specific college catalog for degree, program and course information.
 - (2) Students are strongly encouraged to seek academic advisement prior to enrolling.



College Contact Information

Chandler Gilbert Community College (CGCC)

—Teacher Education:

Sharon Fagan (Pecos Campus) sharon.fagan@cgcmail.maricopa.edu 480-732-7124

Dr. Brenda Larson (Williams Campus) Brenda.larson@cgcmail.maricopa.edu 480-988-8804

Estrella Mountain Community College (EMCC)

—Teacher Education & —Early Childhood Education: Marsha Carlen marsha.carlen@emcmail.maricopa.edu 623-935-8479

Gateway Community College (GWCC)

—Teacher Education:

Elizabeth Skinner elizabeth.skinner@gwmail.maricopa.edu 602-286-8736

Glendale Community College (GCC)

—Teacher Education:

Nancy Oreshack nancy.oreshack@gcmail.maricopa.edu 623-845-3265

—Early Childhood Education:

Dr. Carlos Nunez 623-845-3178

Mesa Community College (MCC)

—Teacher Education: Transfer Services 480-461-7452, or 480-654-7600

Dr. Richard Malena (Red Mountain Campus) richard.malena@mcmail.maricopa.edu 480-461-7890

—Early Childhood Education: Dr. Diana Abel diana.abel@mcmail.maricopa.edu 480-461-7305 or Dr. Christine Osgood osgood@mail.mc.maricopa.edu 480-461-7938

Paradise Valley Community College (PVCC)

—Teacher Education:

Dr. Barbara Carlile barbara.carlile@pvmail.maricopa.edu 602-787-6659

—Early Childhood Education: Christie Colunga christie.colunga@pvmail.maricopa.edu 602-787-7731

Phoenix College (PC)

- —Teacher Education: Ofelia Canez 602-285-7657
- —Early Childhood Education: Alverta McKenzie 602-285-7292

Rio Salado College (RSC)

—Teacher Education & —Early Childhood Education: academic.advisement@email.rio.maricopa.edu 480-517-8580

Scottsdale Community College (SCC)

- —Teacher Education: Dr. Bobbie Sferra 480-423-6217
- —Early Childhood Education: Dr. Rosanne Dlugosz 480-423-6204

South Mountain Community College (SMCC)

—Teacher Education: Dr. Eufemia Amabisca eufemia.amabisca@smcmail.maricopa.edu 602-243-8019

Dr. Yvonne Montiel yvonne.montiel@smcmail.maricopa.edu 602-243-8023

—Early Childhood Education: Joy Mills 480-305-5783



College of Attendance

Completion of teacher education course work for the various degrees, certificates, and programs available can be met through the completion of teacher education course work taken at any Maricopa Community College. Refer to specific college catalogs and course schedules for available offerings.

Common College Requirements for Students Enrolled in Teacher Education Course Work

Students taking Teacher Education Courses are expected to:

- Receive a grade of "C" or better in all course work.
- Participate in site-based practicums, field experiences or service learning. This
 may include observation, tutoring, and some basic teaching. Work with the
 person identified by the college to coordinate the site-based school placements.
- Be fingerprinted, if required. Some school districts require this before students
 are allowed to participate in a site based school experience. The cost of
 fingerprinting is the sole responsibility of the student. Contact each individual
 college for specific information.
- Pay course fees. Refer to specific college course schedules and catalogs.

University Transfer Students

Students planning to transfer to a college/university **other than** Arizona State University (ASU), University of Arizona (UOA), or Northern Arizona University (NAU) to obtain a teacher education degree may also take their prerequisite course work at any Maricopa College. For information on transferability of course work that meets the universities' requirements for admission into their teacher preparation baccalaureate programs, students **must** contact an adviser at that college/university.

Teacher Education Scholarship Availability

The National Center for Teacher Education (NCTE) has created scholarships for teacher education students attending the Maricopa Community Colleges. Currently there are four (4) \$500 scholarship awards available for each of the 10 Maricopa colleges. Visit http://www.dist.maricopa.edu/academic/teachered/scholarship.html for additional information.

The National Association of Community College Teacher Education Programs (NACCTEP) has a national scholarship program. The purpose of the NACCTEP National Scholarship Program is to provide financial assistance to community college students who are studying to become teachers. This scholarship is promoted through the National Association of Community College Teacher Education Programs and is facilitated by the National Center for Teacher Education. Awards are \$1000 over the course of two semesters and will be made available through college financial aid institutions. Visit http://www.nacctep.org/Scholarship/05-06scholarship.php for additional information.

The Professional Career Pathway Project (PCPP is sponsored by the Arizona Department of Economic Security Child Care Administration. This program offers Family Child Care and Center-based caregivers the opportunity to apply for funding to cover the cost of the tuition/fees for college coursework. The PCPP offers students a seamless pathway to meet the requirements for the Child Development Associate (CDA) Credential, the National Association for Family Child Care (NAFCC) Accreditation, and the Certificate of Completion. (EMCC, GCC, MCC, PVCC, SCC, SMCC)

Early Childhood Education Scholarship Opportunities information is available at each college. Make contact with the designated college Early Childhood contact person directly. Scholarship opportunities vary with each program.



Training and Career Programs

At Estrella Mountain, you find training and career programs in technical and vocational fields to help you find a job or improve your current skills. Programs exist to help you earn a degree or certificate in Administration of Justice, Computer Applications Technology, Computer Hardware and Desktop Support, Culinary Studies, Desktop Publishing, Hospitality/Hotel Management, Information Security, Information Security Forensics, Information Security Wireless Networks, Linux Networking Administration, Industrial Operations Technology, Microsoft Networking Technology, Microsoft Product Specialist, Microsoft Desktop Support, Microsoft Product Specialist, Microsoft Systems Engineer, Networking Technology: Cisco, Nursing, Oracle, Organizational Management, Power Plant Technology, Programming and System Analysis, Retail Management, Small Business Management, Strength, Nutrition and Personal Training, Teacher Assisting, Total Quality Management and Web Developer.





CERTIFICATE AND DEGREE PROGRAMS

ADMINISTRATION OF JUSTICE STUDIES

Division Chair - Occupational Programs: Fredrick Maihofer (623) 935-8468

Degree: Associate in Applied Science (AAS), Administration of Justice

(NOTE: See page 72 for AAS degree requirements)

Certificate: Administration of Justice

Administration of Justice AAS Degree Requirements

Program Description: The Administration of Justice curriculum is designed to prepare men and women for careers within the criminal justice system, including, but not limited to: law enforcement, the courts, probation and parole, corrections, and the various social service agencies that support the criminal justice system. It is interdisciplinary in nature and provides the student with a broad knowledge of the conceptual occupational issues and concerns existent within the criminal justice system. The program also provides criminal justice practitioners with the opportunity for continued education and academic growth and development.

Note: Students who have completed an Arizona POST certified Academy may be waived from the following courses: AJS101, AJS109, AJS260, AJS270 and AJS275, AJS107 and AJS205 through the "credit by evaluation" process. Students without prior experiences in the field of law enforcement should consult with the program director. Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner.

(Note: +indicates course has prerequisites and/or corequisites.)

(Note: Students must earn a grade of "C" or better for all courses within the Required Courses Area.)

Required Courses: (33 Credits)		Credits
AJS101	Introduction to Criminal Justice	3
AJS109	Substantive Criminal Law	3
AJS123	Ethics and the Administration of Justice (3) OR	
PAD101	Survey of Public Administration (3)	3
AJS131	Police Management Techniques I	3
+AJS132	Police Management Techniques II	3
AJS211	Police Planning	3
AJS225	Criminology	3
AJS249	Community Policing	3
AJS260	Procedural Criminal Law	3
AJS270	Community Relations	3
AJS275	Criminal Investigations I	3
Restricted E	lectives: (6 Credits)	Credits
AJS110	Law and Legal Review I	3
AJS124	Correctional Institutions	3
AJS133	Correctional Supervision I	3
AJS200	Current Issues in Criminal Justice	3
AJS201	Rules of Evidence	3



AJS205 AJS210 AJS212 AJS220 AJS230	Criminal Justice Reporting Writing Constitutional Law Juvenile Justice Procedures Organized Crime The Police Function	3 3 3 3
AJS107	Patrol Procedures	3
General Studies Re Core: (15 Credits)	equirements: (25 Credits)	
First-Year Composit Any approved gen	tion neral studies courses in the First-Year Composition area.	6
Oral Communication Any approved gen	on a peral studies course in the Oral Communication area.	3
Critical Reading Any approved gen	neral studies course in the Critical Reading area.	3
Mathematics Any approved ger	neral studies course in the Mathematics area.	3
Distribution: (10 Cre Humanities & Fine A	,	3
Social and Behavio Any approved gener	oral Sciences ral education course in the Social and Behavioral Sciences area.	3
Natural Science Any approved general education course in the Natural Science area.		4



Program Description: The Administration of Justice curriculum is designed to prepare men and women for careers within the criminal justice system, including, but not limited to: law enforcement, the courts, probation and parole, corrections, and the various social service agencies that support the criminal justice system. It is interdisciplinary in nature and provides the student with a broad knowledge of the conceptual occupational issues and concerns existent within the criminal justice system. The program also provides criminal justice practitioners with the opportunity for continued education and academic growth and development.

Note: Students who have completed an Arizona POST certified Academy may be waived from the following courses: AJS101, AJS109, AJS260, AJS270 and AJS275, AJS107 and AJS205 through the "credit by evaluation" process. Students without prior experiences in the field of law enforcement should consult with the program director. Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner.

(Note: +indicates course has prerequisites and/or corequisites.)

(Note: Students must earn a grade of C or better for all courses within the Required		
Courses Area.)		
Required Cours	ses: (33 Credits)	Credits
AJS101	Introduction to Criminal Justice	3
AJS109	Substantive Criminal Law	3
AJS123	Ethics and the Administration of Justice (3) OR	
PAD101	Survey of Public Administration (3)	3
AJS131	Police Management Techniques I	3
+ AJS132	Police Management Techniques II	3
AJS211	Police Planning	3





AJS225	Criminology	3
AJS249	Community Policing	3
AJS260	Procedural Criminal Law	3
AJS270	Community Relations	3
AJS275	Criminal Investigations I	3

COMPUTER APPLICATIONS TECHNOLOGY

Division Chair - Instructional Computing: Dr. Valerie Akuna (623) 935-8079

Degree: Associate in Applied Science (AAS), Computer Applications Technology

(NOTE: See page 72 for AAS degree requirements.)

Certificate: Computer Applications Technology

Computer Applications Technology AAS Degree Requirements

Program Description: This program consists of 64 credits and includes courses in the following microcomputer areas: general usage and applications, operating systems, word processing, database, spreadsheets, and desktop publishing. Other skills which are integrated with the microcomputer training are accounting, English and Math.

Many of the courses are offered in a self-paced format to enable students to enter and complete the program in a timely and flexible manner. Students take the courses for personal development of microcomputer skills and to prepare for or enhance employment. The degree program is designed to prepare students for entry level occupations in the rapidly expanding field of computer information systems. Upon completion of the program, students should be able to operate a microcomputer and use a variety of software in a professional manner.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes. Due to the changing nature of technology training, always check with an academic advisor for the most current requirements for your program of study.

NOTE: Students must earn a grade of "C" or better for each course in the Required Courses area. BPC/CIS120++ courses cannot be used to satisfy both "Required Courses" and "Restricted Electives" areas.

Required Courses:	(30 Credits)	Credits
BPC/CIS114*	Electronic Spreadsheet (any module)	3
BPC/CIS117*	Database Management (any module)	3
BPC/CIS118*	Desktop Presentation Software (any module)	3
BPC/CIS120*	Microcomputer Graphics (any module)	3
BPC/CIS121AE	Windows Operating System: Level I	1
BPC/CIS133AA	The Internet/World Wide Web: Level I (1) AND	
+BPC/CIS133BA	The Internet/World Wide Web: Level II (1) AND	
+BPC/CIS133CA	The Internet/World Wide Web:Level III (1) OR	
BPC/CIS133DA	The Internet/World Wide Web (3)	3
+BPC/OAS135*	Word Processing Software (any module)	2
+BPC138*	Desktop Publishing (any module)	3
CIS105	Survey of Computer Information Systems	3
+CIS190	Introduction to Local Area Networks	3
OAS120	Financial Record Keeping	3





Computer Applications Technology AAS Degree Requirements (Cont.)

Restricted Electives: (9 Credits)		Credits	
BPC/CIS120DB	Computer Graphics: Adobe Illustrator	3	
BPC/CIS120DC	Computer Graphic: Macromedia Flash	3	
BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3	
+ BPC170	Computer Maintenance I: A+ Prep	3	
+CIS/MMT140	Survey of Multimedia Technology	2	
+ CIS150	Programming Fundamentals	3	
+CIS159	Visual Basic Programming I	3	
+CIS233DA	Web Design and Publishing	3	
OAS101AA	Computer Typing I: Keyboard Mastery (1) OR		
OAS102	Computer Typing II: Document Production (3)	1-3	
CSM/TQM101	Quality Customer Service	3	
General Studies Requirements: (25 Credits)			

Core: (15 Credits)

First Year Composition:

- +ENG101 First Year Composition (3) AND
- +ENG111 Technical Writing (3)
- (ENG102 First Year Composition is acceptable if ENG111 is not available)

Oral Communication:

COM100 Introduction to Human Communication (3) OR

- COM110 Interpersonal Communication (3) OR
- +COM225 Public Speaking (3) OR
- +COM230 Small Group Communication (3)

Critical Reading:

Any approved general education course in the Critical Reading area or (Note: equivalent as indicated by assessment)

Mathematics:

+MAT 102 Mathematical Concepts/Applications

Distribution: (10 Credits) **Humanities & Fine Arts:**

Any approved general education course in the Humanitites and Fine Arts area.

Natural Science:

Any approved general education course from the Natural Science area

Social & Behavioral Sciences:

ECN 112 Microeconomic Principles

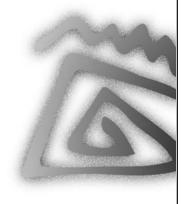
Effective Spring 2007 ECN112 will be modified to ECN212.

(Note: +indicates course has prerequisites and/or corequisites.)

* indicates courses cannot be used to satisfy both "Required Courses" and "Restricted Electives" area.

Computer Applications Technology Certificate Requirements

Program Description: This program consists of 26 credits and includes courses in the following microcomputer areas: general usage and applications, operating systems, word processing, database, spreadsheets, and desktop publishing. With proper choices, a student who completes the Certificate may apply all those courses toward the AAS Degree program. Many of the courses are offered in a self-paced format to enable students to enter and complete the program in a timely and flexible manner. Students take the courses for personal development of microcomputer skills and to prepare for or enhance employment. Upon completion of the program, students should be able to operate a microcomputer and use a variety of software in a professional manner.



6

3

3

3

3



Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes. Due to the changing nature of technology training, always check with an academic advisor for the most current requirements for your program of study.

Required Courses:	: (20 Credits)	Credits
BPC/CIS114*	Electronic Spreadsheet (any module)	3
BPC/CIS117*	Database Management (any module)	3
BPC/CIS133AA	The Internet/World Wide Web:Level I (1) AND	
+BPC/CIS133BA	The Internet/World Wide Web:Level II (1) AND	
+BPC/CIS133CA	The Internet/World Wide Web:Level III (1) OR	
BPC/CIS133DA	The Internet/World Wide Web (3)	3
+BPC/OAS135*	Word Processing Software (any module)	2
+BPC138*	Desktop Publishing (any module)	3
CIS105	Survey of Computer Information Systems	3
OAS120	Financial Record Keeping	3

NOTE: Students must earn a grade of "C" or better for each course in the Required Courses area.

Restricted Electives	s: (6 Credits)	Credits
BPC/CIS118*	Desktop Presentation Software (any module)	3
BPC/CIS120DB	Computer Graphics: Adobe Illustrator	3
BPC/CIS120DC	Computer Graphic: Macromedia Flash	3
BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3
+BPC170	Computer Maintenance I: A+ Prep	3
+CIS/MMT140	Survey of Multimedia Technology	2
+CIS150	Programming Fundamentals	3
+CIS190	Introduction to Local Area Networks	3
+CIS233DA	Web Design and Publishing	3
OAS101AA	Computer Typing I: Keyboard Mastery (1) OR	
OAS102	Computer Typing II: Document Production (3)	1-3
CSM/TQM101	Quality Customer Service	3

(Note: +indicates course has prerequisites and/or corequisites.)

COMPUTER HARDWARE AND DESKTOP SUPPORT

Division Chair - Instructional Computing: Dr. Valerie Akuna (623) 935-8079

Certificate: Computer Hardware and Desktop Support

Computer Hardware and Desktop Support Certificate Requirements

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.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes. Due to the changing nature of technology training, always check with an academic advisor for the most current requirements for your program of study.

^{*} indicates courses cannot be used to satisfy both "Required Courses" and "Restricted Electives" area.



Computer Hardware and Desktop Support...

Required Courses:	: (16-20 Credits)	Credits
BPC110	Computer Usage and Applications (3) OR	
CIS105	Survey of Computer Information Systems (3)	3
BPC/CIS121AB	Microsoft Command Line Operations	1
+BPC170	Computer Maintenance I: A+ Prep	3
+BPC171	Recycling Used Computer Technology	1
+BPC270	Microcomputer Maintenance II	3
CIS102	Interpersonal and Customer Service Skills for IT	
	Professionals	1
+CIS190	Introduction to Local Area Networks (3) OR	
CNT140	Cisco Networking Fundamentals (4) OR	
MST140	Microsoft Networking Essentials (3)	3-4
+CIS290AA	Computer Information Systems Internship (1) OR	
+CIS290AB	Computer Information Systems Internship (2) OR	
+CIS290AC	Computer Information Systems Internship (3) OR	
+CIS296WA-WD	Cooperative Education (any module) (1-4)	1-4

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better in all courses within the program.



Division Chair - Occupational Education: Fredrick Maihofer (623) 935-8468

Degree: Associate in Applied Science (AAS) Culinary Studies

(Note: See page 72 for AAS degree Requirements)

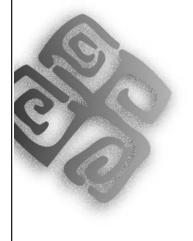
Certificate: Basic Culinary Studies

Culinary Studies

Program Description: The Culinary Studies Associate in Applied Science is designed to train students who wish to become professional chefs and cooks. A formal dining room is operated by the program and provides practical work experience for students. Instruction includes principles of professional cooking and baking, volume food production, food sanitation and safety, purchasing, customer service, and basic nutrition concepts and menu planning.

Admissions Criteria: Entrance into the program is by application and acceptance only. Students must have ENG101 or ENG107 and MAT090 or MAT091 or MAT102 or equivalent. Prior to being considered for and acceptance into the program, students must complete the program preqrequisites area.

Note: Students must obtain Maricopa County Food Handlers Card at the conclusion of the first semester.



Program Prerequisites: (6-8 Credits)		Credits
+ENG101	First-Year Composition (3) OR	
+ENG107	First-Year Composition for ESL(3)	3
+MAT090	Developmental Algebra (5) OR	
+MAT091	Introductory Algebra (4) OR	
+MAT092	Introductory Algebra (3) OR	
+MAT102	Mathematical Concepts/Applications (3)	3-5



Required Courses: (3		Credits
FON100	Introductory Nutrition	3
HRM126	Food Service Cost Systems	2
HRM140	Food Production Concepts	3
FON118	Commercial Baking Techniques	3
+FON144	Gourmet Foods	3
FON179	Garde Manger	3
FON182	American Regional Cuisine	3
FON183	International Cuisines	3
+FON119	Catering - Planning and Production	1
FON180	Principles and Skills for Professional Cooking	3
FON218	Commercial Baking: Classical Desserts	3
HRM244	Quality Sanitation Management	3
HRM275	Restaurant Management	3
Restricted Electives:	(3 Credits)	Credits
HRM110	Introduction of Hospitality and Tourism Manage	
CIS105	Survey of Computer Information Systems	3
MGT101	Techniques of Supervision	3
TQM/CSM101	Quality Customer Service	3
FON102	Menu Planning	2
101102	Wichu I faming	2
General Studies Req Core: (15-17 Credits)	uirements: (25-27Credits)	
First Year Composition	on:	
+ENG101 First Year Co	emposition (3) OR	
+ENG107 First Year Co	mposition for ESL (3) AND	
+ENG102 First Year Co.	mposition (3) OR	
+ENG108 First Year Co	emposition for ESL(3)	6
Oral Communication	•	
	l education course in the Oral Communication area.	3
	reduction course in the oral communication area.	
Critical Reading:		
Any approved genera	l education course in the Critical Reading area.	3
Mathematics:		
	education course in the Mathmatics (MAT) area.	3-5
Any approved general	education course in the Maumilianes (MAI) area.	5-5
Distribution: (10 Cred	lits)	
Humanities & Fine A		
	Il education course in the Humanitites and Fine Arts	area 2-3
approved general	in education course in the framamenes and fine fine	area. 23
Social & Behavioral	Sciences:	
ECN111 Macroecono		
	gg 2007 ECN111 will be modified to ECN211.	
	n to Psychology (3) OR	
SOC101 Introduction		3
		5
Natural Science:		
	ral education course from the Natural Science area	4
J 11 g		
(Note: + indicates cours	e has prerequisites and/or corequisities)	
NOTE: Students must earn a grade of "C" or better in all courses within the program.		
	-	





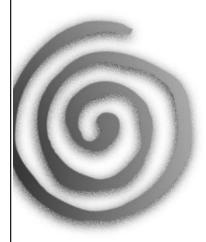
Culinary Studies Certificate Requirements

Program Description: The Culinary Studies Certificate of Completion is designed to train students who wish to become professional chefs and cooks. A formal dining room is operated by the program and provides practical work experience for students. Instruction includes principles of professional cooking and baking, volume food production, food sanitation and safety, purchasing, customer service, and basic nutrition concepts and menu planning.

Admissions Criteria: Entrance into the program is by application and acceptance only. Students must have ENG101 or ENG107 and MAT090 or MAT091 or MAT102 or equivalent. Prior to being considered for and acceptance into the program, students must complete the program pregrequisites area.

Note: Students must obtain Maricopa County Food Handlers Card at the conclusion of the first semester.

Program Prerequisites	s: (6-8 Credits)	Credits
+ENG101	First-Year Composition (3) OR	
+ENG107	First-Year Composition for ESL(3)	3
+MAT090	Developmental Algebra (5) OR	
+MAT091	Introductory Algebra (4) OR	
+MAT092	Introductory Algebra (3) OR	
+MAT102	Mathematical Concepts/Applications (3)	3-5
Required Courses: (30	Credits)	Credits
FON100	Introductory Nutrition	3
HRM126	Food Service Cost Systems	2
HRM140	Food Production Concepts	3
FON118	Commercial Baking Techniques	3
+FON144	Gourmet Foods	3
FON179	Garde Manger	3
FON182	American Regional Cuisine	3
+FON119	Catering - Planning and Production	1
FON180	Principles and Skills for Professional Cooking	3
FON218	Commericial Baking: Classical Desserts	3
HRM244	Quality Sanitation Management	3
Restricted Electives: (3	3 Credits)	Credits
HRM110	Introduction to Hospitality and Tourism Manager	ment 3
CIS105	Survey of Computer Information Systems	3
MGT101	Techniques of Supervision	3
TQM/CSM101	Quality Customer Service	3



Basic Culinary Studies Certificate Requirements

Program Description: The Basic Culinary Studies Certificate of Completion is designed to introduce students who wish to become professional chefs and cooks to the fundamentals of culinary studies. A formal dining room is operated by the program and provides practical work experience for students. Instruction includes commercial food production concepts including catering, baking and sanitation. Courses in this certificate are in alignment with the Associate in Applied Science (AAS) degree in Culinary Studies (Major Code 3151).

Admissions Criteria: Entrance into the program is by application and acceptance only. Students must have ENG101 or ENG107 and MAT090 or MAT091 or MAT102 or equivalent. Prior to being considered for and acceptance into the program, students must complete the program pregrequisites area.

Note: Students must obtain Maricopa County Food Handlers Card at the conclusion of the first semester.



Dasic Cumary Studies Certificate Regulientelles (Cont	Basic Culinary Studies Certificate Req	uirements (Cont.
---	---	-------------	-------

Program Prerequisites	s: (6-8 Credits)	Credits
+ENG101	First-Year Composition (3) OR	
+ENG107	First-Year Composition for ESL (3)	3
+MAT090	Developmental Algebra (5) OR	
+MAT091	Introductory Algebra (4) OR	
+MAT092	Introductory Algebra (3) OR	
+MAT102	Mathematical Concepts/Applications (3)	3-5

Required Courses: (10	6 Credits)	Credits
HRM140	Food Production Concepts	3
FON179	Garde Manger	3
+FON119	Catering - Planning and Production	1
FON180	Principles and Skills for Professional Cooking	3
FON118	Commericial Baking Techniques	3
HRM244	Quality Sanitation Management	3

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better in all courses within the program.



DESKTOP PUBLISHING

Division Chair - Instructional Computing: Dr. Valerie Akuna (623) 935-8079

Certificate: Desktop Publishing

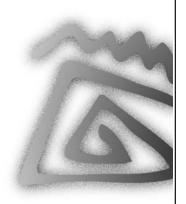
Desktop Publishing Certificate Requirements

Program Description: The Desktop Publishing certificate is designed to prepare students to work with and design professional publications. Courses focus on training the student in project management, internet navigation, desktop design, web page design, and graphics design.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes. Due to the changing nature of technology training, always check with an academic advisor for the most current requirements for your program of study.

Required Courses:	(24 Credits)	Credits
CIS105	Survey of Computer Information Systems (3) OR	
BPC110	Computer Usage and Applications (3)	3
BPC/CIS120DB	Computer Graphics: Adobe Illustrator	3
BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3
BPC/CIS133AA	The Internet/Web Development: Level I-A(1) AND	
+BPC/CIS133BA	The Internet/Web Development: Level I -B (1) AND	
+BPC/CIS133CA	The Internet/Web Development: Level I - C(1) OR	
BPC/CIS133DA	The Internet/Web Development: Level I (3)	3
+BPC138BA	Windows Desktop Design/Pub. Using Quark Express	s 3
+BPC138CA	Windows Desktop Design/Pub. Using Pagemaker	3
+CIS233AA	Internet/Web Development Level II - A(1) AND	
+CIS233BA	Internet/Web Development Level II - B (1) AND	
+CIS233CA	Internet/Web Development Level II - C(1) OR	
+CIS233DA	Internet/Web Development Level II (3)	3
+BPC238BA	Windows Adv. Desktop Design/Pub. Using Quark Exp	ress OR
+BPC238CA	Windows Adv. Desktop Design/Pub. Using Pagemak	cer 3
(Note: + indicates cou	rse has prerequisites and/or corequisities)	

NOTE: Students must earn a grade of "C" or better in all courses within the program.





HOSPITALITY/HOTEL MANAGEMENT

Division Chair - Occupational Education: Fredrick Maihofer (623) 935-8468

Degree: Associate in Applied Science (AAS), Hospitality/Hotel Management

(NOTE: See page 72 for AAS degree requirements.)

Certificate: Hospitality/Hotel Management

Hospitality/Hotel Management AAS Degree Requirements

Program Description: The Hospitality/Hotel Management program is designed to train graduates for management careers in the hotel industry. The hospitality industry is among the fastest growing in the United States, offering numerous career opportunities. This program also transfers to four –year colleges and universities.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes.

Required Courses: (32 Credits)		Credits
CIS105	Survey of Computer Information Systems	3
HRM110	Introduction to Hospitality and Tourism Managemen	t 3
HRM120	Hotel Facility Management	3
HRM126	Food Service Cost Systems	2
HRM130	Guest Services Management	3
HRM140	Food Production Concepts	3
HRM244	Quality Sanitation Management	3
HRM270	Hospitality Marketing	3
HRM275	Restaurant Management	3
+HRM280	Hospitality and Tourism Law	3
MGT101	Techniques of Supervision	3

Restricted Electives: (minimum of 7 credits)		Credits
ACC111	Accounting Principles I	3
+HRM260	Hospitality Human Resources Management	3
+HRM296WA	Cooperative Education	1
+HRM298AA	Special Projects	1
TQM/CSM101	Quality Customer Service	3

General Studies Requirements: (25-27 Credits)

Core: (15-17 Credits)

First-Year Composition:

+ENG101	First-Year Composition (3) AND	
+ENG102	First-Year Composition (3)	6

Oral Communication:

COM100	Introduction to Human Communication (3) OR
COM100AA	Intro to Human Communication Part I (1) AND
COM100AB	Into to Human Communication Part II (1) AND
COM100AC	Intro to Human Communication Part III (1) OR
COM110	Interpersonal Communication (3) OR
+COM225	Public Speaking (3) OR
+COM230	Small Group Communication (3)

3



3

Hospitality/Hotel Management AAS Degree Requirements (Cont.)

Critical Reading:

+CRE101 Critical and Evaluative Reading I OR

equivalent by assessment 3

Mathematics:

+ Any approved general education course from the Mathematics area 3-5

Distribution: (10 Credits) Humanities and Fine Arts:

Any approved general education course from the Humanities and Fine Arts area 3

Social and Behavioral Sciences:

ECN111 Macroeconomic Principles (3) OR

Effective Spring 2007 ECN111 will be modified to ECN211.

PSY101 Introduction to Psychology (3) OR SOC101 Introduction to Sociology (3)

Natural Sciences:

Any approved general education course from the Natural Sciences area 4

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better in all courses within the program.

Hospitality/Hotel Management Certificate Requirements

Program Description: The Hospitality/Hotel Management program is designed to train graduates for management careers in the hotel industry. The hospitality industry is among the fastest growing in the United States, offering numerous career opportunities. This program also transfers to four –year colleges and universities.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes.

Required Courses: (32 Credits)		Credits
CIS105	Survey of Computer Information Systems	3
HRM110	Introduction to Hospitality and Tourism Managemen	t 3
HRM120	Hotel Facility Management	3
HRM126	Food Service Cost Systems	2
HRM130	Guest Services Management	3
HRM140	Food Production Concepts	3
HRM244	Quality Sanitation Management	3
HRM270	Hospitality Marketing	3
HRM275	Restaurant Management	3
+HRM280	Hotel and Tourism Law	3
MGT101	Techniques of Supervision	3

Restricted Electives: (6 credits)		Credits
ACC111	Accounting Principles I	3
+HRM260	Hospitality Human Resources Management	3
TQM/CSM101	Quality Customer Service	3

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better for each course listed in the "Required Course"

area.



INDUSTRIAL OPERATIONS TECHNOLOGY

Division Chair - Occupational Education: Fredrick Maihofer (623) 935-8468

Associate in Applied Science (AAS), Industrial Operations Technology

(NOTE: See page 72 for AAS degree requirements.)

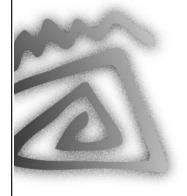
Certificates: Industrial Operations Technology

Program Description: The Industrial Operations Technology Associate in Applied Science prepares students for employment in industrial plants where they will maintain production line equipment. The program is designed to provide an in-depth study of industrial electricity, motors, and controls, transformers and wiring for industrial applications, programmable logic controls, controls and instrumentation, electro/ mechanical devices, industrial air conditioning, and fluid power.

Admissions Criteria: Completion of math ASSET test with a minimum score of 43 and departmental approval.

Required Courses: (37 Credits)

Certificate of Completion in Industrial Operations Technology (5000)



Restricted Electives: (1	2 Credits)	Credits
MET100AA	Tool Room I: Introduction to Machine Processes	2
+MET100AB	Tool Room II: Machine, Processes, and Employme	ent 2
MET140	Computer-Aided Drafting for Manufacturing	3
+MET103AA	Lathe I: Basic Manual Lathe Operations	1
+MET103AB	Lathe II: Secondary Manual Lathe Operations	1
+MET104AA	Mill I: Basic Machine Operations	1
+MET104AB	Mill II: Vertical Mill Attachments	1
OSH101	Introduction to Environmental Hazardous Materia	als 3
	Technology	
OSH102	Introduction to Industrial Hygiene	3
OSH106	Industrial Cafaty	2

OSH106 **Industrial Safety** 5 **WLD106** Arc Welding +WLD206 Advanced Welding - Heliarc and Wire Feed

General Studies Requirements: (22 Credits) Core: (12 Credits)

First-Year Composition

+ENG101 First-Year Composition (3) AND

+ENG111 Technical Writing (3)

(Note: ENG102 First-Year Compostion is acceptable only if ENG111 is not available.)

Oral Communication

COM110 3 **Interpersonal Communication**

Critical Reading

+CRE101 Critical and Evaluative Reading I (3) OR

(Note: Equivalent by assessment.)

Mathematics

(Note: Waived. Waiver submitted and on file at District Curriculum Office for MAT103AA and MAT103AB addressing the embedded competencies within occupational program.)

Distribution: (10 Credits)

Humanities & Fine Arts

Any approved general education course in the Humanities and Fine Arts area. 3

Social Behavioral Sciences

SOC101 Introduction to Sociology 3

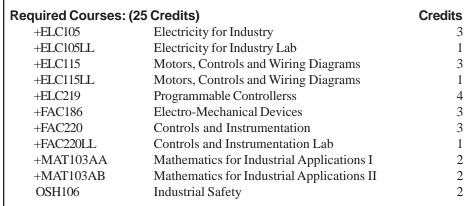
Natural Sciences

Any approved general education course in the Natural Sciences area. 4

Industrial Operations Technology Certificate Requirements

Program Description: The Industrial Operations Certificatee of Completion prepares students for employment in industrial plants where they will maintain production line equipment. The program is designed to provide an in-depth study of industrial electricity, motors, and controls, transformers and wiring for industrial applications, programmable logic controls, controls and instrumentation, electro/mechanical devices, industrial air conditioning, and fluid power.

Admissions Criteria: Completion of math ASSET test with a minimum score of 43 and departmental approval.



Restricted Courses: (12 Credits) Credits

Select 12 credits from the following:

fiect 12 credits from	the following.	
CIS175EA	Introduction to Structured Query Language	1
+CIS190	Introduction to Local Area Networks	3
CNT140	Cisco Networking Basics	4
ELC119	Concepts of Electricity and Electronics	3
ELC120	Solid State Fundamentals	3
+FAC210	Facilities Air Conditioning Systems	3
+FAC210LL	Facilities Air Conditioning Systems Lab	1
FAC213	Controls	3
FAC214	Instrucmentation	3
+GTC181	Introduction to Fluid Power	3
HVA240	Psychometrics	2

(Note: + indicates course has prerequisites and/or corequisites.)

(Note: Students must earn a grade of "C" or better in all courses within the program.)





INFORMATION SECURITY

Division Chair - Instructional Computing: Dr. Valerie Akuna (623) 935-8079

Degree: Associate in Applied Science (AAS), Information Security

(NOTE: See page 72 for AAS degree requirements.)

Certificates: Information Security Forensics

Information Security Technology Information Security Administration Information Security Wireless Networks

Program Description: The Associate of Applied Science (AAS) Degree in Information Security is designed to provide students with the knowledge and tools to understand how networks, operating systems and programs function. Emphasis is placed on developing the theoretical and practical skills needed to maintain security on mission-critical data and systems. The program is designed to meet the training needs of government and industry employees. The program covers a variety of information security disciplines which include both vendor-neutral and vendor-specific information technology (IT) security training. The Information Security program prepares students for internationally recognized IT certifications and high demands in business, industry and government.

Admissions Criteria: None

Required Courses: (27 Credits)

Certificate of Completion: Information Security Technology (5347)

Restricted Electives: (12 Credits)

Credits

Students should select 12 credits from the list below of which 6 credits must be ITS prefix courses.

+CIS162AD	C#: Level I (3) OR	
	CII. Ecverr(5) OR	
+CIS163AA	Java Programming: Level I (3)	3
+CIS238US	UNIX Security	3
+CIS271DL	Linux Security	3
+CNT160	Cisco Swithcing Basics and Intermediate Routing	3
+CNT170	Cisco Wide Area Networks (WAN Technologies	3
+CNT182	Cisco Secure Pix Firewall Configuration	3
+CNT185	Cisco Network Security	4
+CNT186	Fundamentals of Wireless LANs	4
ITS100	Information Security Awareness	1
+ITS150	Building Trusted Networks in the Enterprise	3
+ITS160	Managing Trusted Networks in the Enterprise	3
+ITS170	Information Security Policy Development	1
+ITS171	Information Security Risk Management	1
ITS172	Viruses and Other Malicious Software	1
+ITS230	Deploying Snort Intrusion Detection System (IDS)	3
+ITS231	Router Hardening	1
+ITS232	Layer 2 Attacks and Defenses	3
+ITS233	Wireless Network Security	3
+ITS290	Computer Security Incident Response	3
+ITS291	Computer Forensics Foundations	4
+ITS292	Advanced Computer Forensics	4
+ITS295AA	Special Topics in Information Security	1
+ITS295AB	Special Topics in Information Security	2
+ITS295AC	Special Topics in Information Security	3
+ITS298AA	Special Projects	1
	+CIS238US +CIS271DL +CNT160 +CNT170 +CNT182 +CNT185 +CNT186 ITS100 +ITS150 +ITS170 +ITS171 ITS172 +ITS230 +ITS231 +ITS233 +ITS233 +ITS290 +ITS291 +ITS295AA +ITS295AB +ITS295AC	+CIS238US +CIS271DL Linux Security +CNT160 Cisco Swithcing Basics and Intermediate Routing +CNT170 Cisco Wide Area Networks (WAN Technologies +CNT182 Cisco Secure Pix Firewall Configuration +CNT185 Cisco Network Security +CNT186 Fundamentals of Wireless LANs ITS100 Information Security Awareness +ITS150 Building Trusted Networks in the Enterprise +ITS160 Managing Trusted Networks in the Enterprise +ITS170 Information Security Policy Development +ITS171 Information Security Risk Management ITS172 Viruses and Other Malicious Software +ITS230 Deploying Snort Intrusion Detection System (IDS) +ITS231 Router Hardening +ITS232 Layer 2 Attacks and Defenses +ITS233 Wireless Network Security +ITS290 Computer Security Incident Response +ITS291 Computer Forensics Foundations +ITS295AA Special Topics in Information Security +ITS295AB Special Topics in Information Security



Restrictive Credits Continues...

ITS298AB	Special Projects	2
ITS298AC	Special Projects	3
+MST152	Microsoft Windows Server	4
+MST259	Designing Windows Network Security	3

Free Electives: None

General Education: Credits: 25-27

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)

First-Year Composition for ESL (3) AND +ENG108 First-Year Composition for ESL (3) 6

Oral Communication:

COM100 Introduction to Human Communication (3) OR

+COM225 Public Speaking (3) OR

+COM230 Small Group Communication (3) 3

Critical Reading:

+CRE101 Critical and Evaluative Reading I OR

> equivalent by assessment 3

Mathematics:

+MAT150 College Algebra/Functions (5) OR +MAT151 College Algebra/Functions (4) OR

+MAT152 College Algebra/Functions (3) 3-5

Distribution: (10 Credits)

Humanities and Fine Arts:

Any approved general education course from the Humanities and Fine Arts area 3

Social and Behavioral Sciences:

Any approved general educaton course from the Social and Behavioral Sciences 3

Natural Sciences:

Any approved general education course from the Natural Sciences area 4

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better in all courses within the program.





Information Security Forensics Certificate Requirements

Program Description: The Certificate of Completion (CCL) in Information Security Forensics is designed to provide students with the knowledge and tools to gather evidence, often as part of a criminal investigation, from computers and computer networks. The discipline requires a technical knowledge of the relationship between a computer's operating system and the supporting hardware (e.g. hard disks), and between the operating system and system/application programs and the network. Evidence gathering must precede in a manner that ensures that the evidence is admissible in a court of law, and can be documented and presented in an intelligible manner. The Information Security Forensics Certificate of Completion is part of a comprehensive Information Security program, which prepares students for internationally recognized industry certifications.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes.

Program Notes:

Students must earn a grade of "C" or better in all courses within the program.

+ indicates course has prerequisites and/or corequisites.

Admission Criteria: None

Program Prerequisites: Credits: 6

+BPC170	Computer Maintenance I: A+ Prep	3
CIS105	Survey of Computer Information Systems	3

Required Courses: Credits: 24

Nequired Oodi 303. Oredits. 24			
CIS126DA	UNIX Operating System (3) OR		
CIS126DL	Linux Operating System (3)	3	
+ITS110	Information Security Fundamentals	4	
+ITS120	Legal, Ethical and Regulatory Issues	3	
+ITS290	Computer Security Incident Response	3	
+ITS291	Computer Forensics Foundations	4	
+ITS292	Advanced Computer Forensics	4	
MST150	Microsoft Windows Professional (3) OR		
MST150DA	Microsoft Windows 2000 Professional (3) OR		
MST150XP	Microsoft Windows XP Professional (3)	3	

Restricted Elective: None

Free Electives: None



Information Security Technology Certificate Requirements

Program Description: The Certificate of Completion (CCL) in Information Security Technology is designed to provide students with the knowledge and tools to understand how networks, operating systems and programs function, as well as, how to protect them. Emphasis is placed on developing the knowledge and skills to maintain security on mission-critical data and computer systems. The program is designed to meet the training needs of employees in both public and private sectors. The program covers a variety of information security disciplines that include both vendor-neutral and vendor-specific security training. The Information Security Technology program prepares students for internationally recognized industry certifications.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes.

Program Notes:

+BPC170

Students must earn a grade of "C" or better in all courses within the program.

Computer Maintenance I: A+ Prep

+ indicates course has prerequisites and/or corequisites.

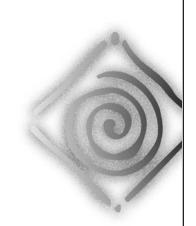
Admission Criteria: None

Program Prerequisites: Credits: 6

CIS105	Survey of Computer Information Systems	3
Required Cours	es: Credits: 27	
CIS126DA	UNIX Operating System (3) OR	
CIS126DL	Linux Operating System (3)	3
CNT140	Cisco Networking Basics	4
+CNT150	Cisco Networking Router Technologies	4
+ITS110	Information Security Fundamentals	4
+ITS120	Legal, Ethical and Regulatory Issues	3
+ITS130	Operating System Security	3
+ITS140	Network Security	3
MST150	Microsoft Windows Professional (3) OR	
MST150DA	Microsoft Windows 2000 Professional (3) OR	
MST150XP	Microsoft Windows XP Professional (3)	3

Restricted Elective: None

Free Electives: None



3



Information Security Administration Certificate Requirements

Program Description: The Certificate of Completion (CCL) in Information Security Administration is designed to provide students with the knowledge and tools to understand how networks, operating systems and programs function, as well as, how to protect them. Emphasis is placed on developing the knowledge and skills to maintain security on mission-critical data and computer systems. The program is designed to meet the training needs of employees in both public and private sectors. The program covers a variety of information security disciplines that include both vendor-neutral and vendor-specific security training. The Information Security Technology program prepares students for internationally recognized industry certifications.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes.

Program Notes:

Students must earn a grade of "C" or better in all courses within the program.

+ indicates course has prerequisites and/or corequisites.

Admission Criteria: None

Program Prerequisites: 27

Certificate of Completic	n. Information	n Security Techno	logy (5347)	27
certificate of completion	n. miomianoi	i becurity recinio	10gy (33+1)	21

certificate of completion, information security recimology (55 17)		
Required Course	es: Credits: 23	
+CIS162AB	C++: Level I (3) OR	
+CIS162AD	C#: Level I (3) OR	
+CIS163AA	Java Programming: Level I (3)	3
+CNT160	Cisco Switching Basics and Intermediate Routing	3
+CNT170	Cisco Wide Area Networks (WAN) Technologies	3
+CNT186	Fundamentals of Wireless LANs	4
+ITS150	Building Trusted Networks in the Enterprise	3
+ITS160	Managing Trusted Networks in the Enterprise	3
+MST152	Microsoft Windows Server	4
Restricted Electi	ive: 6	

+CIS238US	UNIX Security	3
+CNT182	Cisco Secure PIX Firewall Configuration	3
+CNT185	Cisco Network Security	4
ITS100	Information Security Awareness	1
ITS170	Information Security Policy Development	1
+ITS171	Information Security Risk Management	1
ITS172	Viruses and Other Malicious Software	1
+ITS230	Deploying Snort Intrusion Detection System (IDS)	3
+ITS231	Router Hardening	1
+ITS232	Layer 2 Attacks and Defenses	3
+ITS233	Wireless Network Security	3
+MST259	Designing Windows Network Security	3

Free Electives: None



Information Security Wireless Networks Certificate Requirements

Program Description: The Certificate of Completion (CCL) in Information Security Wireless Networks is designed to provide students with the knowledge and tools to design secure wireless local area networks (LANs) and defend wireless LANs against the latest hacking techniques, implement the latest wireless LAN security solutions and understand the impact of new wireless solutions. The Wireless Network Security Certificate of Completion is part of a comprehensive Information Security program which prepares students for internationally recognized industry certifications.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes.

Program Notes:

+BPC170

CIS105

Students must earn a grade of "C" or better in all courses within the program. + indicates course has prerequisites and/or corequisites.

Computer Maintennance I: A+Prep

Survey of Computer Information Systems

Admission Criteria: None

Program Prerequisites: 6

Required Courses: Credits: 23			
Required Cours	ses: Credits: 23		
+CNT160	Cisco Switching Basics and Intermediate Routing	3	
+CNT170	Cisco Wide Area Networks (WAN) Technologies	3	
+CNT186	Fundamentals of Wireless LANs	4	
+ITS110	Information Security Fundamentals	4	
+ITS130	Operating System Security	3	
+ITS140	Network Security	3	
ITS233	Wireless Network Security	3	
+ITS230	Deploying Snort Intrusion Detection System (IDS)	3	
+ITS231	Router Hardening	1	
+ITS232	Layer 2 Attacks and Defenses	3	
+ITS233	Wireless Network Security	3	
+MST259	Designing Windows Network Security	3	

Restricted Elective: None

Free Electives: None



3



LINUX NETWORKING ADMINISTRATION

Division Chair - Instructional Computing: Dr. Valerie Akuna (623) 935-8079

Degree: Associate in Applied Science (AAS), Linux Networking Administration

(NOTE: See page 72 for AAS degree requirements.)

Certificates: Linux Associate

Linux Networking Administration

Linux Professional

Linux Networking Administration AAS Degree Requirements

Program Description: The Associate in Applied Science in Linux Networking Administration will help to prepare students for a variety of industry recognized Linux certification exams as well as provide practical hands-on skills for the work place. The program includes a core of Linux classes including Linux Operating System Basics, System Administration, Network Administration and Network Security. These classes will ensure a student's knowledge and skill level in preparation for employment or for improving current professional skills. Objectives for a variety of industry certifications are encompassed within course and program objectives.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes. Due to the changing nature of technology training, always check with an academic advisor for the most current requirements for your program of study.

Admissions Criteria: None

(Note: + indicates course has prerequisites and/or corequisites.)

(Note: Students must earn a grade of "C" or better in all courses within the program.)

Required Courses: (24 Credits) Credits

+BPC170	Computer Maintenance I: A+ Prep (3) OR	
+BPC273	Advanced Server Computer Maintenance: (3)	3
	Server+ Prep	
CIS126DL	Linux Operating System (3) OR	
CIS126AL	Linux Operating System I (1) and	
+CIS126BL	Linux Operating System II (1) and	
+CIS126CL	Linux Operating System III (1)	3
+CIS238DL	Linux System Administration	3
+CIS239DL	Linux Shell Scripting	3
+CIS240DL	Linux Network Administration	3
+CIS271DL	Linux Security	3
+CIS190	Introduction to Local Area Networks (3)	3-4
CNT140	Cisco Networking Basics (4) OR	
MST140	Microsoft Networking Essentials (3) OR	
MST150	Microsoft Windows Professional (any module)	3

Restricted Electives: (12 Credits)

CIS105	Survey of Computer Information Systems (3)OR	
BPC110	Computer Usage and Applications (3)3	
MST140	Microsoft Networking Essentials (3) OR	
CNT140	Cisco Networking Basics (4) OR	
+CIS190	Introduction to Local Area Networks (3)	3-4



Linux Networking Administration AAS Degree Requirements (Cont.)

+BPC/CIS224	Project Management Microsoft Project for Windows	3
+CIS270	Essentials of Network and Information Security	3
BPC/CIS121AB	Microsoft Command Line Operations	1
MST150	Microsoft Windows Professional (any module)	3
+MST152	Microsoft Windows Server (any module)	4
+MST155	Implementing Windows Network Infrastructure	3
+MST157	Implementing Windows Directory Services	3
+MST232	Managing a Windows Network Environment	3
+CNT150	Cisco Network Router Technologies	4
+CNT160	Cisco Switching Basics and Intermediate Routing	3
+CNT170	Cisco Project-Based Learning	3
+CNT120	Adobe Web Design	3
BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3
CIS120DC	Computer Graphics: Macromedia Flash	3
BPC/CIS133DA	The Internet/World Wide Web	3
+CIS233DA	Web Design and Publishing	3
+BPC170	Computer Maintenance I: A+ Prep (3) or	
+BPC270	Microcomputer Maintenance II	3
+BPC273	Advanced Server Computer Maintenance: Server+ Prep	3
+CIS296WC	Cooperative Education	3
CIS298AC	Special Projects	3

General Studies Requirements: (25 Credits)

Core: (15 Credits)

First-Year Composition:

+ENGI0I	First-Year Composition (3) AND	
+ENG102	First-Year Composition (3)	6

Oral Communication:

Any approved course in the Oral Communication area (Note: Equivalent as indicated by assessment)

Critical Reading:

+CRE101	Critical and Evaluative Reading I or	
(Note: Equivalent	as indicated by assessment)	3

Mathematics:

+MAT102 Mathematical Concepts/Applications or (Note: Higher) 3

Distributions: (10 Credits) Humanities and Fine Arts

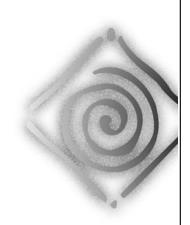
Any approved general education course in the Humanities and Fine Arts area.

Social Behavioral Sciences:

Any approved general education course in Social and Behavioral Sciences area.

Natural Sciences:

Any approved general education course in the Natural Science area.



Linux Associate Certificate Requirements

Program Description: The Linux Associate certificate will help to prepare students for a variety of industry-recognized Linux certification exams as well as provide practical hands-on skills for the work place. The program includes a core of Linux classes including Linux Operating System Basics, System Administration, Network Administration and Network Security. These classes will ensure a student's knowledge and skill level in preparation for employment or for improving current professional skills. Objectives for a variety of industry certifications are encompassed within course and program objectives.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes.

(Note: Students must earn a grade of "C" or better for all courses required within the program.)

(Note: +indicates course has prerequisites and/or corequisites)

Admission Criteria: None

Required Courses: (1	2 Credits) C	redits
CIS126DL	Linux Operating System (3) OR	
CIS126AL	Linux Operating System I (1) AND	
+CIS126BL	Linux Operating System II (1) AND	
+CIS126CL	Linux Operating System III (1)	3
+CIS238DL	Linux System Administration	3
+CIS240DL	Linux Network Administration	3
+CIS271DL	Linux Security	3
Restricted Electives:	(12 Credits)	redits
CIS105	Survey of Computer Information Systems	3
CIS/BPC121AB	Microsoft Command Line Operations	1
MST140	Microsoft Networking Essentials (3) OR	
CNT140	Cisco Networking Basics (4) OR	3-4
+CIS 190	Introduction to Local Area Networks	3
MST150	Microsoft Windows Professional (any module) (3)	3
+CNT150	Cisco Networking Router Technologies	4
BPC/CIS133DA	The Internet/World Wide Web (3) or	
+CNT120	Adobe Web Design	3
+CIS233DA	Web Design and Publishing	3
BPC/CIS224	Project Management Microsoft Project for Window	s 3
+BPC170	Computer Maintenance I: A+ Prep	3
+BPC273	Advanced Server Computer Maintenance	3
+CIS239DL	Linux Shell Scripting	3
+CIS270	Essentials of Network and Information Security	3



Linux Networking Administration Certificate Requirements

Program Description: The Linux Networking Administration certificate will help to prepare students for a variety of industry-recognized Linux certification exams as well as provide practical hands-on skills for the work place. The program includes a core of Linux classes including Linux Operating System Basics, System Administration, Network Administration and Network Security. These classes will ensure a student's knowledge and skill level in preparation for employment or for improving current professional skills. Objectives for a variety of industry certifications are encompassed within course and program objectives.

(**Note:** Students must earn a grade of "C" or better for all courses required within the program.)

(Note: +indicates course has prerequisites and/or corequisites)

Admission Criteria: None

Required Courses: (24 Credits)		
Linux Operating System (3) OR		
Linux Operating System I (1) AND		
Linux Operating System II (1) AND		
Linux Operating System III (1)	3	
Linux System Administration	3	
Linux Network Administration	3	
Linux Security	3	
Linux Shell Scripting	3	
Cisco Networking Basics (4) or		
Microsoft Networking Essentials (3) OR		
Introduction to Local Area Networks (3)	3-4	
Computer Maintenance I: A+ Prep (3) OR		
Advanced Server Maintenance: Server+ Prep (3)	3	
Microsoft Windows Professional (any module)	3	
	Linux Operating System (3) OR Linux Operating System I (1) AND Linux Operating System II (1) AND Linux Operating System III (1) Linux Operating System III (1) Linux System Administration Linux Network Administration Linux Security Linux Shell Scripting Cisco Networking Basics (4) or Microsoft Networking Essentials (3) OR Introduction to Local Area Networks (3) Computer Maintenance I: A+ Prep (3) OR Advanced Server Maintenance: Server+ Prep (3)	

I	Restricted Electives: (12 Credits) Credi	its
l	CIS105	Survey of Computer Information Systems (3) OR	
l	BPC110	Computer Usage and Applications (3)	3
l	MST140	Microsoft Networking Essentials (3) OR	
l	CNT140	Cisco Networking Basics (4) OR	
l	+CIS 190	Introduction to Local Area Networks (3)	3-4
l	BPC/CIS224	Project Management Microsoft Project for Windows	3
l	+CIS270	Essentials of Network and Information Security	3
l	BPC/CIS121AB	Microsoft Command Line Operations	1
l	MST150	Microsoft Windows Professional (any module)	3
l	+MST152	Microsoft Windows Server (any module)	4
l	+MST155	Implementing Windows Network Infrastructure	3
l	+MST157	Implementing Windows Directory Services	3
l	+MST232	Managing a Windows Network Environment	3
l	+CNT150	Cisco Network Router Technologies	4
l	+CNT160	Cisco Switching Basics and Intermediate Routing	3
l	+CNT170	Cisco Wide Area Networks (WAN) Technologies	3
l	+CNT120	Adobe Web Design	3
l	BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3
l	BPC/CIS120DC	Computer Graphics: Macromedia Flash	3
l	BPC/CIS133DA	The Internet/World Wide Web	3
l	+CIS233DA	Web Design and Publishing	3
l	+BPC170	Computer Maintenance I: A+ Prep	3
l	+BPC270	Microcomputer Maintenance II	3
	+BPC273	Advanced Server Computer Maintenance: Server+ Prep	3
۱	+CIS296WC	Cooperative Education	3
١	CIS298AC	Special Projects	3





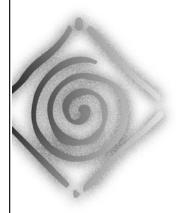
Linux Professional Certificate Requirements

Program Description: The Linux Professional certificate will help to prepare students for a variety of industry-recognized Linux certification exams as well as provide practical hands-on skills for the work place. The program includes a core of Linux classes including Linux Operating System Basics, System Administration, Network Administration and Network Security. These classes will ensure a student's knowledge and skill level in preparation for employment or for improving current professional skills. Objectives for a variety of industry certifications are encompassed within course and program objectives.

(**Note**: Students must earn a grade of "C" or better for all courses required within the program.)

(Note: +indicates course has prerequisites and/or corequisites)

Admission Criteria: None



Required Courses: (6 Credits) CIS126DL Linux Operating System (3) OR CIS126AL Linux Operating System I (1) AND +CIS126BL Linux Operating System II (1) AND +CIS126CL Linux Operating System III (1) 3 +CIS238DL Linux System Administration 3

Restricted Electives: (6 Credits) Cred		
CIS105	Survey of Computer Information Systems	3
CIS/BPC121AB	Microsoft Command Line Operations	1
MST140	Microsoft Networking Essentials (3) OR	
CNT140	Cisco Networking Basics (4) OR	3-4
+CIS 190	Introduction to Local Area Networks	3
MST150	Microsoft Windows Professional (any module) (3	3)
+CNT150	Cisco Networking Router Technologies	4
+CIS240DL	Linux Network Technologies	3
+CIS271DL	Linux Security	3
+CIS270	Essentials of Network and Information Security	3
+BPC170	Computer Maintenance I: A+ Prep	3
+BPC273	Advanced Server Computer Maintenance: Server-	- 3
	Pren	

MICROSOFT NETWORKING TECHNOLOGY

Division Chair - Instructional Computing:Dr. Valerie Akuna (623) 935-8079

Degree: Associate in Applied Science (AAS), Microsoft Networking Technology

(NOTE: See page 72 for AAS degree requirements.)

Certificates: Microsoft Desktop Support Technology

Microsoft Product Specialist Microsoft Systems Administration Microsoft Systems Engineer

Microsoft Networking Technology AAS Degree Requirements

Program Description: The Associate in Applied Science (AAS) in Microsoft Networking Technology 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.



Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes. Due to the changing nature of technology training, always check with an academic advisor for the most current requirements for your program of study.

Program Notes:

- + indicates course has prerequisites and/or corequisities)
- ++ indicates any module.)

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

Program Prerequisites:

CIS105 Survey of Computer Information Systems (3) OR

Permission of Department or Division

Required Courses: (24-25 Credits)

Credits

3

(Area Note: Selected courses will not apply in both Required Courses and Restricted Electives area.)

Electives area.)		
BPC/CIS121AB	Microsoft Command Line Operations	1
+BPC170	Computer Maintenance I: A+ Prep	3
CIS102	Interpersonal and Customer Service Skills for IT	1
	Professionals	
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	
CIS126DL	Linux Operating System (3) OR	
CIS126AL	Linux Operating System II (1) AND	
+CIS126BL	Linux Operating System II (1) AND	
+CIS126CL	Linux Operating System III (1)	3
+CIS190	Introduction to Local Area Networks OR (3)	
CNT140	Cisco Networking Basics (4) OR	
MST140	Microsoft Networking Essentials (3)	3-4
MST150++	Microsoft Windows Professional (any course)	3
+MST152++	Microsoft Windows Server (and course)	4
+ MST155	Implementing Windows Network Infrastructure	3
+MST157	Implementing Windows Directory Services	3

Restricted Electives: (13 Credits)

For MST150++ and MST152++, select a different MS Windows version than the one selected for Required Courses.

Students should select thirteen (13) credits from the following courses in consultation with a program advisor:

William programma wa visori			
BPC110	Computer Usage and Applications (3) OR		
CIS105	Survey of Computer Information Systems (3)	3	
+BPC171	Recycling Used Computer Technology	1-3	
+BPC270	Microcomputer Maintenance II	3	
+CIS150	Programming Fundamentals	3	
+CIS159	Visual Basic Programming I	3	
+CIS162AB	C++: Level I (3) OR		
+CIS162AC	Visual C++: Level I (3)	3	
+CIS280++	Any CIS280 Current Topics in Computing course	1-3	

Students may select no more than four (4) credits combined from CIS282AA-AC, CIS290AA-AC and CIS296WA-WD courses.





Microsoft Networking Technology AAS Degree Requirements (Cont.)

Microsoft Netwo	orking Technology AAS Degree Requirements (Cont.)	
+CIS282++	Volunteerisom for Computer Information Systems:	
	A Service Learning Experience (Any module) (1-3) OR	
+CIS290A++	Computer Information Systems Internship (Any moder (1-3) OR	ıle)
+CIS296++	Computer Information Systems Internship (Any Modul (1-3) OR	e)
+CNT150	Cisco Networking Router Technologies	4
+MST141	Supporting Microsoft Windows Desktop Operating Sys	stems 3
+MST142	Supporting Applications on Microsoft Windows	
	Desktop Operating Systems	3
MST150++	Microsoft Windows Professional (any course)	3
+MST152++	Microsoft Windows Server (any course)	3-4
+MST232	Managing a Windows Network Environment	3
+MST242	Microsoft Exchange Server	4
+MST244	Microsoft SQL Server Administration	3
+MST252	Microsoft Windows Network Upgrade	3
+MST253	Designing a Microsoft Windows 2000 Directory	
	Services Infrastructure	3
+MST254	Microsoft SQL Server Design & Implementation	3
+MST255	Designing Windows Network Infrastructure	3
+MST259	Designing Windows Network Security	3
MST298A++	Special Projects (Any module)	1-3
General Education Core: (15 Credits)	n Requirements: (25 Credits)	
First-Year Compos	sition:	

+ENGIOI	First- real Composition (3) AND	
+ENG102	First-Year Composition (3) OR	
+ENG107	First-Year Composition for ESL (3) AND	
+ENG108	First-Year Composition for ESL (3)	(

3

3

Oral Communication:

Δ	ny annroved	general	education	course in	the	Oral	Communication area
L-		2 CHCI ai	cuucanon	course II	ı uıc	Orar '	Communication area

Critical Reading:

+CRE101	Critical and Evaluative Reading I (3) OR		
	equivalent as indicated by assessment	3	

Mathematics:

Any opproved	ganaral	advantion	course in	tha M	lathematics area	
+ Any approved	generai	education	course in	the IV	iathematics area	

DISTRIBUTION: (10 Credits)

Humanities and Fine Arts:

Any approved general education course in the Humanities and Fine Arts area

Social and Behavioral Sciences:

Any approved general education course in the Social and Behavioral Sciences area 3

Natural Sciences:

Any approved general education course in the Natural Sciences area



Microsoft Desktop Support Technology Certificate Requirements

Program Description: The Certificate of Completion in Microsoft Desktop Support Technology is designed to provide training to work in an entry-level computer maintenance and help-desk position. Students will develop the skills to successfully troubleshoot desktop environments running on the Microsoft Windows operating system. Courses in the program also help to prepare for the Microsoft Certified Desktop Support Technician (MCDST) examinations.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes. Due to the changing nature of technology training, always check with an academic advisor for the most current requirements for your program of study.

Program Notes:

- + indicates course has prerequisites and/or corequisities)
- ++ indicates any module.)

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

Program Prerequisites:

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.

BPC/CIS121AB	MS-DOS Operating System 1
CIS102	Interpersonal and Customer Service Skills for IT Professionals
	1

Required Courses: (18-19 Credits) Credits

BPC110	Computer Usabe and Applications (3) OR	
CIS105	Survey of Computer Information Systems (3)	3
+BPC170	Computer Maintenance I: A+ Prep	3
+CIS190	Introduction to Local Area Networks OR (3)	
CNT140	Cisco Networking Basics (4) OR	
MST140	Microsoft Networking Essentials (3)	3-4
+MST141	Supporting Microsoft Windows Client	
	Operating Systems	3
+MST142	Supporting Applications on Microsoft Windows Client	
	Operating Systems	3
+MST150XP	Microsoft Windows XP Professional	3

Restriced Electives: None.



Microsoft Product Specialist Certificate Requirements

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.

Program Notes:

Students must earn a grade of "C" or better for all courses required within the program. Overall program minimum GP.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 Department or Division	3
Required Courses	: (13-15 Credits)	Credits
BPC/CIS121AB	Microsoft Command Line Operations	1
+BPC170	Computer Maintenance I: A+ Prep	3
+CIS190	Introduction to Local Area Networks (3) OR	
CNT140	Cisco Networking Basics (4) OR	
MST140	Microsoft Networking Essentials (3)	3-4
MST150++	Any MST150 course	3
+MST152++	Any MST152 course	4

Microsoft Systems Administration Certificate Requirements

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. The courses in the program also prepare for Microsoft Certified Product Specialist (MCP), Microsoft Certified Systems Administrator (MCSA), and Microsoft Certified Systems Engineer (MCSE) examinations.

Program Notes:

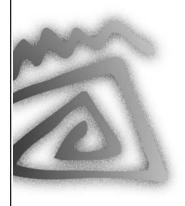
Students must earn a grade of "C" or better for all courses required within the program. Overall program minimum GP.A. = 2.00.

- + indicates course has prerequisites and/or corequisites.
- ++ indicates any module.

Program Prerequisites: (3 credits)

CIS105	Survey of Computer Information Systems (3) OR	
	Permission of Department or Division	3

Required Courses:	Credits	
BPC/CIS121AB	Microsoft Command Line Operations	1
+BPC170	Computer Maintenance I: A+ Prep	3
+CIS190	Introduction to Local Area Networks (3) OR	
CNT140	Cisco Networking Basics (4) OR	
MST140	Microsoft Networking Essentials (3)	3-4
MST150++	Any MST150 course	3
+MST152++	Any MST152 course	4
+MST155	Implementing Windows Network Infrastructure	3
+MST232	Managing Window Network Environment	3





Microsoft Systems Engineer Certificate Requirements

Program Description: The Certificate of Completion in Microsoft Systems Engineer provides training for an intermediate- to supervisory-level position working with Windows networks. The program develops skills to install, configure, customize, optimize, and troubleshoot Windows servers, Windows client workstations, Microsoft Backoffice products. 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.

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 Department or Division	3	
Required Courses:	(32-33Credits)	Credits	
BPC/CIS121AB	Microsoft Command Line Operations	1	
+BPC170	Computer Maintenance I: A+ Prep	3	
+CIS190	Introduction to Local Area Networks (3) OR		
CNT140	Cisco Networking Basics (4) OR		
MST140	Microsoft Networking Essentials (3)	3-4	
MST150++	Any MST150 course	3	
+MST152++	Any MST152 course	4	
+MST155	Implementing Windows Network Infrastructure	3	
+ MST157	Implementing Windows Directory Services	3	
+MST232	Managing a Windows Network Environment	3	
+ MST244	Microsoft SQL Server Administration	3	
+MST253	Designing a Microsoft Windows 2000 Directory Services Infrastructure (3) OR		
+MST255	Designing Windows Network Infrastructure	3	
+ MST259	Designing Windows Network Security (3)	3	





NETWORKING TECHNOLOGY: CISCO

Division Chair - Instructional Computing: Dr. Valerie Akuna (623) 935-8079

Degree: Associate in Applied Science (AAS), Networking Technology: Cisco

(NOTE: See page 72 for AAS degree requirements.)

Certificates: Networking Administration: Cisco

Networking Technology: Cisco

Networking Technology: Cisco AAS Degree Requirements

Program Description: Estrella Mountain Community College, a Cisco Systems recognized Regional Academy, prepares students for industry-recognized certification. The curriculum is taught by Cisco Systems Certified Professionals.

The Associate of 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.

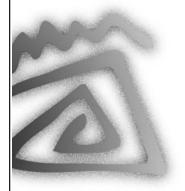
Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year.

Required Courses: (25 Credits)

Credits

(Note: A course cannot be used to satisfy the Required Course and Restricted Electives Area.)

BPC/CIS121AB	Microsoft Command Line Operations	1
+BPC170	Computer Maintenance I: A+ Prep	3
CIS102	Interpersonal and Customer Service Skills for IT	1
	Professionals	
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)	3
CNT140	Cisco Networking Basics	4
+CNT150	Cisco Networking Router Technologies	4
+CNT160	CIsco Switching Basics and Intermediate Routing	3
+CNT170	Cisco Wide Area Networks (WAN) Technologies	3
ELT100	Survey of Electronics	3



Restricted Electives: (15 Credits) Credits

BPC110	Computer Usage and Application (3) OR	
CIS105	Survey of Computer Information Systems (3)	3
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)	3
+CIS190	Introduction to Local Area Networks OR	



	// ~/ 9//	
MST140	Microsoft Networking Essentials	3
+CIS270	Essentials of Network and Information Security	3
+CIS296WA-WD	Cooperative Education	1-4
CIS298AA-AC	Special Projects	1-3
+MST145	Microsoft Client System Administration	3
+MST240	Microsoft Transmission Control Protocol/Internet	
	Protocol (TCP/IP)	3
	urse has prerequisites and/or corequisities) earn a grade of "C" or better for each course listed in the	e "Required
Course" area.)	carra grade of C of better for each course fisted in the	. Required
,	t be used to satisfy both Required Courses and Restricte	ed Flectives
(110tc. / 1course canno	toe used to satisfy both required courses and restrict	Ju Liceli ves

areas.)

General Education Requirements: (25 Credits)

Core: (15 Credits)

First-Year Composition:

+ENG101	First Year Composition AND	3
+ENG102	First Year Composition	3
Oral Communica	tion:	
COM100	Introduction to Human Communication (3) OR	
COM110	Interpersonal Communication (3) OR	
+COM230	Small Group Communication (3)	3
Critical Reading:		
+ CRE101	Critical and Evaluative Reading I (3) OR	3
	Equivalent as indicated by assessment.	
Mathematics:		
+MAT102	Mathematical Concepts/Applications	3
Distribution: (10 0	Credits)	
Humanities and I	Fine Arts:	
Any approved ge	eneral education course in the Humanities and Fine Arts area	3

Social and Behavioral Sciences:

Any approved general education course in the Social and Behavioral Sciences area **Natural Sciences:** Any approved general education course in the Natural Sciences area





Networking Administration: Cisco Certificate Requirements

Program Description: Estrella Mountain 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.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year.

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better for each course listed in the "Required Courses" area.

Required Courses: (14 Credits)		
CNT140	Cisco Networking Basics	4
+CNT150	Cisco Networking Router Technologies	4
+CNT160	Cisco Switching Basics and Intermediate Routing	3
+CNT170	Cisco Wide Area Networks (WAN) Technologies	3

Networking Technology: Cisco Certificate Requirements

Program Description: Estrella Mountain 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.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year.

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better for each course listed in the "Required Courses" area.

Required Courses: (21 Credits)		
BPC/CIS121AB	Microsoft Command Line Operations	1
+BPC170	Computer Maintenance I: A+ Prep	3
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)	3
CNT140	Cisco Networking Basics	4
+CNT150	Cisco Networking Router Technologies	4
+CNT160	Cisco Switching Basics and Intermediate Routing	3
+CNT170	Cisco Wide Area Networks (WAN) Technologies	3

NURSING

Division Chair - Nursing: Judi Crume (623) 935-8953

Degree: Associate in Applied Science (AAS), Nursing

(NOTE: See page 72 for AAS degree requirements.)

Nursing: AAS Degree Requirements

Program Description: The Nursing Program is available at nine of the Maricopa Community Colleges. The nursing pathway provides multiple exit points for employment that begins with Nurse Assisting and continues to the Practical Nurse certificate and Registered Nurse degree program. The Nursing Program provides eligibility for students seeking certification and licensure through the Arizona State Board of Nursing. Licensing requirements are the exclusive responsibility of the Arizona State Board of Nursing.

The Nursing Program is approved by the Arizona State Board of Nursing and accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway 33rd Floor, New York, New York 10006, 212.363.5555, ext 153.

Waiver of Licensure/Certification Guarantee:

Admission or graduation from the Nursing Program does not guarantee obtaining a license or certificate to practice nursing. Licensure and certification requirements and the subsequent procedures are the exclusive right and responsibility of the Arizona State Board of Nursing. Students must satisfy the requirements of the Nurse Practice Act: Statutes, Rules and Regulations, independently of any college of school requirements for graduation.

Pursuant to A.R.S. § 32-1606(B)(17), an applicant for professional or practical nurse license by examination is not eligible for licensure if the applicant has any felony convictions and has not received an absolute discharge from the sentences for all felony convictions. The absolute discharge must be received five or more years before submitting this application. If you cannot prove that the absolute discharge date is five or more years, the Board cannot process your application.

All nurse and nursing assistant applicants for certification and licensure will be fingerprinted to permit the Department of Public Safety to obtain state and federal criminal history information. If there is any question about eligibility for licensure or certification, contact the nursing education consultant at the Arizona State Board of Nursing (602-331-8111). All students must submit a copy of a fingerprint clearance card with their application for the Maricopa Community College District Nursing Program.

Health Declaration:

It is essential that Nursing students be able to perform a number of physical activities in the clinical portion of the program. At a minimum, students will be required to lift patients, stand for several hours at a time and perform bending activities. The clinical nursing experience also places students under considerable mental and emotional stress as they undertake responsibilities and duties impacting patients' lives. Students must be able to demonstrate rational and appropriate behavior under stressful conditions. Individuals should give careful consideration to the mental and physical demands of the program prior to making application.

Health & Safety Requirements for the Nursing Program:

- 1. Students must submit a completed Health and Safety Documentation Checklist and maintain current status throughout the program.
- 2. Students must submit a CPR card for Health Care Provider and maintain current status throughout the program.
- 3. Health Declaration Form signed by a licensed health care provider.
- 4. Negative urine drug screen.



Nursing Degree Requirements continues...

Grade Requirements:

Student must obtain a "C" grade or better or pass in "P/Z" graded courses in all courses in program.

Course Fee Information:

Please see class schedule for information regarding course fees.

University Transfer Students:

For students planning a University Program

Students who are planning to earn the Bachelor of Science in Nursing may obtain their prerequisite courses at the Maricopa Community Colleges. For information on courses that meet requirements for admission into a baccalaureate program, please contact a program advisor.

REGISTERED NURSE PATHWAY

Associate in Applied Science Degree in Nursing Program

The Associate Applied Science (AAS) degree in Nursing graduate is eligible to apply for licensure as a Registered Nurse (RN). The RN is educated as a generalist who delivers health care to clients and family groups and has competencies related to the art and science of nursing. The RN may be employed in a variety of acute, chronic and community based health care settings. The AAS degree in Nursing provides the graduate with an educational foundation for articulation into the university setting.

Program Notes:

Students must earn a grade of "C" or better in all courses within the program.

+ indicates course has prerequisites and/or corequisites

Admission Criteria:

High School diploma or GED, application and acceptance into the nursing program. A reading score of 50% or higher and a math score of 50% or higher on the Nursing Entrance Exam (NET) must be achieved for admission. Retests can be taken only once in a 60 day period. The entire Nursing Entrance Exam (NET) must be taken on each retest. The test can be taken no more than 3 times in a 12-month period.

The Health Education Systems, Inc. (HESI) test will be administered to all prospective advanced placement students seeking admission into Blocks 3 or 4. A score of 800 or higher is required in order to be granted advanced placement into either of these blocks. A score of less than 800 will result in placement into either Block 1 or 2. The final decision rests with the Nursing Program Chair at the College to which the student is accepted. All students must submit a copy of a fingerprint clearance card with their application for the Nursing Program.

Program Prerequisites (18-31)

Credit

Area Note: The credit hour range is subject to change depending on the student's educational experience.

BIO156	Introductory Biology for Allied Health (4) OR	
BIO181	General Biology (Majors) I (4) OR	
	One year of high school biology	0-4
+BIO201	Human Anatomy and Physiology I	4
+BIO202	Human Anatomy and Physiology II	4
+BIO205	Microbiology	4
+CHM130	Fundamental Chemistry (3) AND	
+CHM130LL	Fundamental Chemistry Laboratory (1) OR	
	One year of high school chemistry	0-4
+CRE101	Critical and Evaluative Reading I (3) OR	
	Equivalent by assessment	0-3
+ENG101	First-Year Composition OR	
+ENG107	First-Year Composition for ESL	3



	// / / / / / / / / / / / / / / / / / / /	/ (g —
+MAT120	Intermediate Algebra (5) OR	
+MAT121	Intermediate Algebra (4) OR	
+MAT122	Intermediate Algebra (3) OR	
11111122	Higher Level Math Course	3-5
Required Courses:		Credits: 46
HCC145AA	Medical Terminology for Health Care Workers I	
+NUR111	Nursing Process/Critical Thinking I	4
+NUR117	Pharmacology & Medication Administration I	2
+NUR119	Nursing Science I	5
+NUR121	Nursing Process/Critical Thinking II	4
+NUR127	Pharmacology & Medication Administration II	2
+NUR129	Nursing Science II	5
+NUR231	Nursing Process/Critical Thinking III	4
+NUR237	Pharmacology & Medication Administration III	
+ NUR239	Nursing Science III	5
+ NUR241	Nursing Process/Critical Thinking IV	4
+ NUR249	Nursing Science IV	6
PSY101	Introduction to Psychology	3
Restricted Elective	s: None.	
0	Dominomontos (F. Onodito)	
l .	Requirements: (5 Credits)	
CORE: (3 Credits)		
First-Year Compositi		
	ENG107 in Program Prerequisites area.	
+ENG102	First-Year Composition (3) OR	2
ENG108	First-Year Composition for ESL(3)	3
Oral Communication		0
Waived.		Ü
warveu.		
Critical Reading		
_	Program Prerequisites area.	0
l wietey charoring	Togram Troroquisites area.	Ŭ
Mathematics		
Met by MAT120, or	MAT121, or MAT122 OR	
	Course in Program Prerequisites area.	0
Distribution: Credits	s: 2	
Humanities/Fine Art	S	
Any approved cours	se in the Humanities and Fine Arts area.	2
Natural Science		0
Met by BIO201 and	BIO202 in Program Prerequisites areas.	
0 1 12 1	10:	^
Social and Behaviora		0
Met by PSY 101 in F	Required Courses area.	





Oracle Database Administration Certificate Requirements

Division Chair - Instructional Computing: Dr. Valerie Akuna (623) 935-8079

Program Description: This program provides students with the latest Oracle Database Administration skills necessary to perform the duties of an Oracle DBA as well as the requisite knowledge needed for the Oracle Certified Professional (OCP) Program examinations.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year.

Credits

CIS105	Survey of Computer Information Systems	3
CIS122AC	UNIX Operating System: Multi-User	1
+ENG101	First Year Composition (3) OR	
OAS108	Business English (3)	3
Required Courses:	(16 Credits)	redits
+CIS119DO	Introduction to Oracle: SQL	3
+CIS119DP	Oracle: Database Administration	3
+CIS119DQ	Oracle: Backup and Recovery	2
+CIS119DR	Oracle: Performance: Tuning	3
+CIS164AG	Oracle: Data Modeling and Relational Database Design	n 2
MGT101	Techniques of Supervision (3) OR	

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better in all courses within the program.

Business Organization and Management (3)

ORGANIZATIONAL MANAGEMENT

Division Chair - Occupational Education: Fredrick Maihofer (623) 935-8468

Degree: Associate in Applied Science (AAS), Organizational Management

(NOTE: See page 72 for AAS degree requirements.)

Certificate: Organizational Leadership

Program Prerequisites: (7 Credits)

Organizational Management AAS Degree Requirements

Program Description: The Associate in Applied Science (AAS) in Organizational Management provides students with a customized curriculum specific to the student's individual needs in addition to the knowledge and skills needed in today's changing workplace. The program develops leadership and communication skills and techniques for planning, directing, and evaluating business situations, with an emphasis on effective allocation of time, money, materials, space, and personnel. The curriculum combines coursework in leadership with a general education component.

Program Notes:

MGT175

+indicates course has prerequisites and/or corequisites

Admission Criteria: None Program Prerequisites: None

Required Courses: Credits: 17-18

Certificate of Completion in Organizational Leadership (5731) 17-18

Restricted Electives: Credits: 19-22

Students must choose 19-22 industry/job specific course credits from any MCCCD occupational program and have them approved by a department chair. These industry/job specific course credits must include a minimum of 9 credits with a common subject.



General Education Requirements: (25-27 Credits) Core: (15-17 Credits)

-				
+Any approved general	l education cours	se in the First-Yea	ar Composition area	6

Oral Communication:

First-Year Composition:

+Any approved general education course in the Oral Communications area 3

Critical Reading:

+Any approved general education course in the Critical Reading area 3

Mathematics:

+MAI 102	Mathematical Concepts/Applications (3) OR	
+MAT120	Intermediate Algebra (5) OR	
+MAT122	Intermediate Algebra (3)	3-5

Distribution: (10 Credits)

Humanities and Fine Arts:

Any approved general education course in the Humanities and Fine Arts area 3

Social and Behavioral Sciences:

Any approved general studies course in the Social and Behavioral Sciences area 3

NaturalSciences:

Any approved general education course in the Natural Sciences area 4

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better for each course in the "Required Courses" area.

Organizational Leadership Certificate Requirements

Program Description: The Certificate of Completion (CCL) in Organizational Leadership provides students with knowledge and skills needed in today's changing workplace. The program develops leadership and communication skills and techniques for planning, directing, and evaluating business situations. This program also emphasizes procedures for effective allocation of time, money, materials, space, and personnel.

Required Courses: (17-18 Credits)		
CIS105	Survey of Computer Information Systems (3) OR	
BPC110	Computer Usage and Applications (3)	3
GBS110	Human Relations in Business and Industry (3) OR	
MGT251	Human Relations in Business (3)	3
+GBS233	Business Communications (3) OR	
+TQM105	Writing for Quality Results (2)	2-3
MGT175	Business Organization and Management	3
GBS151	Introduction to Business	3
MGT101	Techniques of Supervision (3) OR	
MGT229	Management and Leadership I (3)	3

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better for each course in the "Required Courses" area.



POWER PLANT TECHNOLOGY

Division Chair - Occupational Education: Fredrick Maihofer (623) 935-8468

Power Plant Technology AAS Degree Requirements

Program Description: The Associate of Applied Science in Power Plant Technology is designed to provide power plant staff/apprentices with trade-related classroom training as required by the US Department of Labor, Bureau of Apprenticeship and Training, and the State of Arizona, Apprenticeship Division. This program consists of a core curriculum that is common to all power plant apprenticeships. The apprentice selects a track of study - mechanical, electrical, instrumentation, heating ventilation and air conditioning, welding or machining – to complete specialized, craft-related training.

Admission Criteria:

Acceptance to Power Plant Technology program.

Required Course	Credits	
BPC101AA	Introduction to Microcomputers I: IBM	1
GTC/FAC/MIT/C	OSH106 Industrial Safety	2
GTC/MET107	Technical Mathematics I	3
+GTC/MET108	Technical Mathematics II	3
GTC216	Properties of Materials	3
PPT101	Hand and Power Tools	1
PPT103	Print Reading and Plant Drawings	1
PPT118	Conduct of Maintenance	1
PPT200	Industry Events	1
PPT202	Plant Systems and Components I	2
+PPT203	Plant Systems and Components II	2
PPT204	Measuring and Test Equipment	1

Restricted Elective: (17 Credits)

+PPT209

+PPT210

PPT211

Credits

2

3

0.5

Students will select one of the following tracks and complete 17 craft-related credits from the list of restricted elective courses indicated in each specialty track below.

Track I: Pow	ver Plant Technology: Mechanical	
PPT102	Introduction to Electricity	3
PPT104	Properties of Materials	1
PPT105	Air Compressor Principles	1
PPT106	Diesel Engine Systems	1
PPT107	Lubrication	1
PPT108	Turbines	1
PPT109	Pipefitting Auxiliaries I	2
PPT110	Valves Maintenance I	2
PPT112	Principles of Machining	3
PPT113	Pumps I	2
PPT114	Drive and Gear Components	1
PPT115	Hydraulics and Pneumatics	2
PPT116	Introduction to Welding and Metal Fabrication	3
PPT117	Forklift Operations	1
PPT119	Instrument Air Compressor Maintenance	2
PPT205	Rigging	2
PPT206	Bearings	1
PPT207	Heat Exchangers	1
PPT208	Thermal Insulation	0.5

Pipefitting Auxiliaries II

Valve Maintenance II

Couplings



7	1		
€	ĸ	N	K
74		4	2

		//(6)	
PPT212	Control Valves and Actuators	1	
PPT213	Pumps II	3	
PPT214	Machine Alignment	3	
PPT215	Relief and Safety Valves	1	
PPT217	Refueling Overview	1	
PPT218	Lathe Operations	2	
PPT219	Milling Machine Operations	2	
11 1217	withing waenine Operations	2	
Track II: Power P	Plant Technology: Electrical		
ELC119	Concepts of Electricity and Electronics	3	
ELC120	Solid State Fundamentals	3	
ELC210	AC Machinery and DC Machinery	3	
ELC217	Motor Controls	3	
+ELC218	Variable Frequency Drives	3	
ELT101	Mathematics for Electronics I	3	
+ELT102	Mathematics for Electronics II	3	
+ELT113	Basic Electronics	4	
Two ole III. Dozzeni	Dlant Tashualassy Instrumentation		
ELT101	Plant Technology: Instrumentation Mathematics for Electronics I	2	
	Mathematics for Electronics I	3	
+ELT102		3	
ELT113 +ELT131	Basic Electronics	4	
	Digital and Logic Circuits Solid State Electronics	4	
+ELT195 +ELT251	Electronic Instrumentation	4 3	
	Operating Systems/PC	2	
+ NET183AA PPT102	Introduction to Electricity	3	
PPT115	Hydraulics and Pneumatics	2	
11113	Trydraunes and Flieumatics	2	
Track IV: Power I	Plant Technology:Heating, Ventilation and Air	Conditioning	
+FAC101	Refrigeration Components and Application		
+FAC101LL	Refrigeration Components and Application		
+FAC105	Electricity for Industry	3	
+FAC105LL	Electricity for Industry Lab	1	
+FAC115	Motors, Controls and Wiring Diagrams	3	
+FAC115LL	Motors, Controls and Wiring Diagrams La		
+FAC210	Facilities Air Conditioning Systems	3	
+FAC210LL	Facilities Air Conditioning Systems Lab	1	
+HVA112	Heating and Air Conditioning	3	
+HVA112LL	Heating and Air Conditioning Lab	1	
HVA143	Load Calculation and Duct Design	3	
+HVA234	HVAC and Refrigeration Installation	3	
+HVA234LL	HVAC and Refrigeration Installation Lab	1	
	_		
	lant Technology: Welding		
WLD101	Welding I	3	
WLD106	Arc Welding	5	
+WLD201	Welding II	3	
+WLD206	Advanced Welding – Heliarc and Wire Fed		
+WLD208	Advanced Arc Welding – Certification	5	
Track VI: Power	Plant Technology: Machining		
+MET102	Machine Processes, Theory and Applicati	on 5	
MET110	Survey of Manufacturing Materials	1	
+MET112	Inspection Techniques	3	
MET114	Machine Trades Print Reading	3	
+MET115	Teamwork Dynamics in Manufacturing	2	
MET140	Computer-Aided Drafting for Manufactur		



Power Plant Technology AAS Degree Requirements (Cont.)

+ME1203	Machine Tools	5
+MET206	CNC Programming	3
+MET236	CAD/CAM Computer Numerical Control	3
	(CNC) Programming	
+MET260	Tooling and Fixturing	3
+MET264	Manufacturing Process Planning	3

General Studies Requirements: (22 Credits)

Core: (12 Credits)

First-Year Composition:

+ENG101 First-Year Composition (3) AND +ENG102 First-Year Composition (3) OR +ENG111 Technical Writing (3)

Oral Communication:

COM100 Introduction to Human Communication (3) OR COM110 Interpersonal Communication (3) 3

Critical Reading:

+CRE101 Critical and Evaluative Reading I (3) OR

+CRE111 Critical Reading for Business and Industry (3) OR

Equivalent by Assessment

3

6

Mathematics:

Waived. Note: Waiver submitted and on file at the District Curriculum Office for GTC/MET108

addressing the embedded compentencies within the occupational program.

Distribution: (10 Credits) **Humanities and Fine Arts:**

Any approved general education course in the Humanities and Fine Arts area

3

Social and Behavioral Sciences:

Any approved general education course in the Social and Behavioral Sciences area

4

NaturalSciences:

+PHY110

program.

(Note: + indicates course has prerequisites and/or corequisites) NOTE: Students must earn a grade of "C" or better for all courses required within the

Fundamentals of Physcial Science



3

PROGRAMMING AND SYSTEM ANALYSIS

Division Chair - Instructional Computing: Dr. Valerie Akuna (623) 935-8079

Degree: Associate in Applied Science (AAS), Programming and System Analysis

(NOTE: See page 72 for AAS degree requirements.)

Certificate: Programming and System Analysis

Programming and System Analysis AAS Degree Requirements

Program Description: The Associate in Applied Science (AAS) program provides an in-depth exploration of different computer language and technical skills. The program includes, but is not limited to the following: operating systems, local area networks, business communication, team roles, and dynamics.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year.

Program Prerequisites: (3 credits)

+CRE101 Critical and Evaluative Reading I (3) OR

Equivalent by assessment

Required Courses:	(25-26 Crodits)	Credits
BPC/CIS117DM	Microsoft Access: Database Management (3) OR	Ciedits
BPC/CIS117AM	Database Management: Microsoft Access - Level I (1) AND
+BPC/CIS117BM	Database Management: Microsoft Access - Level II (
+BPC/CIS117CM	Database Management: Microsoft Access - Level III	
CIS105	Survey of Computer Information Systems	3
BPC/CIS121AB	MS-DOS (1) OR	3
CIS121AE	Windows Operating System: Level I (1) OR	
CIS126AA	UNIX Operating System: Level I (1) OR	
CIS126AL	Linux Operating System I (1)	1
+CIS150	Programming Fundamentals (3) OR	
+CIS150AB	Object-Oriented Programming Fundamentals (3)	3
+CIS159	Visual Basic Programming I	3
CIS162	C Programming I (3) OR	
+CIS162AA	C: Level I (3) OR	
+CIS162AB	C++: Level I (3) OR	
+CIS162AC	Visual C++: Level I (3) OR	
+CIS162AD	C#: Level I (3)	3
+CIS190	Introduction to Local Area Networks (3) OR	
+CNT140	Cisco Networking Basics (4) OR	
+MST140	Microsoft Networking Essentials (3)	3-4
+CIS225	Business Systems Analysis and Design (3) OR	
+CIS225AB	Object-Oriented Analysis and Design (3)	3
+GBS233	Business Communication	3
Restricted Electives	s: (15 Credits)	Credits
CIS126DA	UNIX Operating System	3
+CIS166	Web Scripting/Programming (3) OR	
+CIS166AA	Introduction to JavaScripting (3) OR	
+CIS166AB	Web Scripting with Perl/C GI (3)	3
+CIS169	Introduction to Visual Basic for Applications	3
+CIS224	Project Management Microsoft Project for Windows	
+CIS250	Management Information Systems	3
+CIS259	Visual Basic Programming II	3
+CIS262++	C Programming: Level II (any module)	3
+CIS263AA	Java Programming: Level II	3
+CIS290AC	Computer Information Systems Internship	3





Programming	and	System	Analysis	AAS	Degree	Requirements	Continues

General Studies R	Requirements: (22 Credits)
Core: (12 Credits)	

First-Year Composition:

+ENG101 First-Year Composition (3) OR

+ENG107 First-Year Composition for ESL (3) AND

+ENG102 First-Year Composition (3) OR +ENG108

First-Year Composition for ESL (3)

Oral Communication:

Any approved general education course in the Oral Communication area

3

6

Critical Reading:

+ Met by CRE101 in Program Prerequisites area

0

Mathematics:

+MAT212 **Brief Calculus** 3

Distribution: (10 Credits)

Humanities and Fine Arts:

Any approved general education course in the Humanities and Fine Arts area

Social and Behavioral Sciences:

ECN111 Macroeconomic Principles (3) OR

Effective Spring 2007 ECN111 will be modified to ECN211.

Microeconomic Principles (3) OR ECN112

Effective Spring 2007 ECN112 will be modified to ECN212.

SBU200 Society and Business (3) 3

Natural Sciences:

Any approved general education course in the Natural Sciences area

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better for all courses required within the program.

Programming and System Analysis Certificate Requirements

Program Description: The Certificate of Completion (CCL) program provides an indepth exploration of different computer language and technical skills. Includes, but is not limited to the following: operating systems, local area networks, business communication, team roles, and dynamics.

Program Prerequisites: (3 credits)

First-Year Composition (3) OR +ENG101

+ENG107 First-Year Composition for ESL (3) OR

Equivalent

3

3

1

3

Credits

Required Courses: (25-26 Credits)

BPC/CIS117DM	Microsoft Access: Database Management (3) OR
BPC/CIS117AM	Database Management: Microsoft Access - Level I (1) AND
+BPC/CIS117BM	Database Management: Microsoft Access - Level II (1) AND

+BPC/CIS117CM Database Management: Microsoft Access - Level III (1) CIS105 Survey of Computer Information Systems

CIS121AB MS-DOS (1) OR

Windows Operating System: Level I (1) OR CIS121AE CIS126AA UNIX Operating System: Level I (1) OR CIS126AL Linux Operating System I (1)

+CIS150 Programming Fundamentals (3) OR

+CIS150AB Object-Oriented Programming Fundamentals (3)

Select 2 courses for a total of 6 credits:

+CIS159	Visual Basic Programming I (3) OR	
+CIS162	C Programming I (3) OR	
+CIS162AA	C: Level I (3) OR	
+CIS162AB	C++: Level I (3) OR	
+CIS162AC	Visual C ++: Level I (3) OR	
+CIS162AD	C#: Level I (3) OR	
+CIS163AA	Java Programming: Level I (3)	6
+CIS190	Introduction to Local Area Networks (3) OR	
+CNT140	Cisco Networking Basics (4) OR	
+MST140	Microsoft Networking Essentials (3)	3-4
+CIS225	Business Systems Analysis and Design (3) OR	
+CIS225AB	Object-Oriented Analysis and Design (3)	3
+GBS233	Business Communication	3
(Notes + indicates ass	1	

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better for all courses required within the program.

RETAIL MANAGEMENT

Division Chair - Occupational Education: Fredrick Maihofer (623) 935-8468

Degree: Associate in Applied Science (AAS), Retail Management

(NOTE: See page 72 for AAS degree requirements.)

Certificate: Retail Management

Retail Management AAS Degree Requirements

Program Description: The Retail Management degree is designed to prepare individuals working in the retail management, food industry, and related fields, for the mid-level management position challenges of the future. The curriculum encompasses business essentials and also emphasizes the skill sets needed for effective management and communication in the work environment. Instruction will provide the background and knowledge necessary for students to develop the judgment skills they must exercise as business managers.

Program Notes:

Students must earn a grade of "C" or better in all courses within the program.

+ indicates course has prerequisites and/or corequisites.

Program Prerequisites: None

Required Courses: (39 Credits)

ACC111	Accounting Principles I	3
+ACC230	Uses of Accounting Information I	3
+ ACC240	Uses of Accounting Information II	3
BPC110	Computer Usage and Applications (3) OR	
CISI05	Survey of Computer Information Systems (3)	3
COM110	Interpersonal Communication (3) OR	
IND133	Speaking in Business (3)	3
GBS110	Human Relations in Business and Industry (3) OR	
MGT251	Human Relations in Business (3)	3
GBS131	Business Calculations (3) OR	
+GBS161	Mathematics of Business (3)	3
GBS205	Legal, Ethical, and Regulatory Issues in Business	3
+GBS233	Business Communication	3
MGT101	Techniques of Supervision (3) OR	
MGT229	Management and Leadership I (3)	3



Retail Management AAS Degree Requirements Continues...

MGT179	Utilizing the Human Resources Department (3) OR	
MGT276	Personnel/Human Resources Management (3)	3
MKT268	Merchandising	3
MKT271	Principles of Marketing	3

General Education: (25 Credits)

CORE: (15 Credits)

First-Year Composition

+ENG101	First-Year Composition (3) OR	
+ENG107	First-Year Composition for ESL (3) AND	
+ENG102	First-Year Composition (3) OR	
+ENG108	First-Year Composition for ESL (3) OR	
+ENG111	Technical Writing (3)	6
ENG102 or ENG10	08 recommended for students pursuing a BAS degree at an Arizo	ona
university.		

Oral Communication

		_
+COM230	Small Group Communication	3
T(\(\) \(\) \(\) \(\)	Silian Choud Communication	.)

Critical Reading

+CRE101 Critical and Evaluative Reading I (3) OR

Equivalent by assessment

Mathematics

+MAT102 Mathematical Concepts/Applications (3) OR

Satisfactory completion of a higher level mathematics course3

3

Distribution Credits: 10 Humanities and Fine Arts

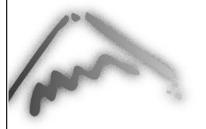
Any approved general education course from the Humanities and Fine Arts area. 3

Social and Behavioral Sciences

SBU200 Society and Business 3

Natural Sciences

Any approved general education course from the Natural Sciences area.





RETAIL MANAGEMENT CERTIFICATE

Division Chair - Occupational Education: Fredrick Maihofer (623) 935-8461

Certificate: Retail Management

Retail Management Certificate Requirements

Program Description: The Retail Management Certificate is designed to prepare individuals working in the food industry, and related fields, for the management challenges of the future. The curriculum encompasses several business essentials and also emphasizes the skill sets needed for effective management and communication in the work environment.

Required Courses: (30 Credits)		Credits
ACC111	Accounting Principles I	3
BPC110	Computer Usage & Application (3) OR	
CIS105	Survey of Computer Information Systems	3
+ENG101	First-Year Composition (3) OR	
+ENG107	First-Year Composition for ESL	3
GBS131	Business Calculatins (3) OR	
+MAT102	Mathematical Concepts & Applications (3)	3
+GBS233	Business Communication	3
COM110	Interpersonal Communication (3) OR	
IND133	Speaking in Business	3
MGT101	Techniques of Supervision (3) OR	
MGT229	Management and Leadership I	3
MGT179	Utilizing the Human Resource Department (3) OR	
MGT276	Personnel/Human Resources Management	3
+MKT268	Mechandising	3
MKT271	Principles of Marketing	3
l		

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better in all courses within the program.





SMALL BUSINESS MANAGEMENT

Division Chair - Occupational Education: Fredrick Maihofer (623) 935-8468 Certificate: Small Business Management

Small Business Management Certificate Requirements

Program Description: This program is designed to meet the needs of individuals who wish to own and/or manage a small business. It is a flexible program composed of one and two-credit courses, which can be offered on non-traditional schedules and can be completed rapidly. These factors increase the opportunity for more members of the small business community to take advantage of these courses. This program offers a planned content core. Students earn a certificate upon program completion.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner.

Required Courses: (9 Credits)	
Small Business Operations	2
Small Business Bookkeeping and Tax Preparation	1
Financing and Cash Management for a Small Busine	ss 1
Small Business Marketing and Advertising	2
Small Business Customer Relations	1
Internet Marketing for Small Business	2
	Small Business Operations Small Business Bookkeeping and Tax Preparation Financing and Cash Management for a Small Busine Small Business Marketing and Advertising Small Business Customer Relations

(Note: + indicates course has prerequisites and/or corequisities)

NOTE: Students must earn a grade of "C" or better in all courses within the program.

STRENGTH, NUTRITION, AND PERSONAL TRAINING

Degree: Associate in Applied Science Strength, Nutrition and Personal Training (NOTE: See page 72 for AAS degree requirements.)

Strength, Nutrition, and Personal Training AAS Degree Requirements

Program Description: The Strength, Nutrition, and Personal Training Associate in Applied Science (AAS) prepares students with the knowledge and experience required to be eligible for the American College of Sports Medicine (ACSM) Health and Fitness Instructor Certification, ACSM personal trainer certification, the National Strength and Conditioning Association (NSCA) personal trainer certification, and the American Council on Exercise (ACE) personal trainer certification. This degree will provide students with a stronger educational background making them more marketable in the field of fitness and nutrition. This degree will also meet the needs of individuals with existing degrees in such fields as Exercise Physiology, Nutrition, Athletic Training and other health related disciplines. Registered dietitians, clinical exercise physiologists, personal trainers, exercise specialists, strength and conditioning specialists, coaches, athletes and others interested in acquiring knowledge in exercise, nutrition and health are also eligible for this program.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner.

1.1	
100	
The same of	

Required Courses: (47-48Credits)		Credits
BPC110	Computer Usage and Applications	3
FON100	Introductory Nutrition	3
+FON100AD	Nutrition Sports and Physical Activity	1
+FON137	Nutrition Supplements	2
+FON230	Nutrition for Special Populations	3
+FON247	Weight Management Theory	3
MGT253	Owning and Operating a Small Business	3



		9	T.
HES154	First Aid/Cardiopulmonary Resuscitation (3) OR		
	BLS Health Care Provider and First Aid Certification	3	
HES271	Prevention and Treatment of Athletic Injuries	3	
PED112	Professional Applications of Fitness Principles	3	
PED125	Exercise Science	3	
+PED139++	Practical Applications of Personal Training Skills and		
111111111111	Internship (3) (any module) OR	reciniques	
DEDOS	Exercise Program Design and Instruction (3)	3	
+PED285		3	
PED145	Guidelines for Exercise Testing and Prescription		
PSY101	Introduction to Psychology	3	
+PSY215	Introduction to Sport Psychology	3	
AND			
	lowing series for 5-6 credits:		
Series 1: (6 Credits)			
PED212SC	Instructional Competency Lab: Muscular Strength a	nd	
1 ED2125C	Conditioning	2	
PED212CR			100
PED212CR	Instructional Competency Laboratory: Cardiorespira		1
DED 24 OFF	Exercises and Activities	2	
PED212FL	Instructional Competency Laboratory: Flexibility and N	•	
	Exercises	2	
OD			
OR			
Series 2: (5 Credits)			
PED130	Strength Fitness-Physiological Principles and Traini	•	
	Techniques	3	
PED132	Cardiovascular Fitness: Physiological Principles and	l Training	
	Techniques	2	
OR			
Series 3: (5 Credits)			
+ PED275	Methods of Enhancing Physical Performance	3	
PED132	Cardiovascular Fitness: Physiological Principles and	l Training	
	Techniques	2	
General Studies Re	quirements: (25-27 Credits)		
Core: (15-17Credits)			
First-Year Composit	tion:		
+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)	6	
Oral Communication	on:		
COM100	Introduction to Human Communication (3) OR		
COM110	Interpersonal Communication (3)	3	
	interpersonal Communication (3)	J	
Critical Reading:			
+CRE101	Critical and Evaluative Reading I	3	
Mathematics:			
+MAT120	Intermediate Algebra (5) OR		
+MAT121	Intermediate Algebra (4) OR		
+MAT122	Intermediate Algebra (3)	3-5	
	- · · · · · · · · · · · · · · · · · · ·		



Strength, Nutrition, and Personal Training AAS Degree Requirements Continues...

Distribution: (10 Credits)

Humanities and Fine Arts:

Any approved general education course in the Humanities and Fine Arts area 3

Social and Behavioral Sciences:

CFS205 Human Development (3) OR

HES100 Healthful Living (3)

Natural Sciences:

BIO160 Introduction to Human Anatomy and Physiology

(Note: + indicates course has prerequisites and or corequisites.)

STRENGTH AND CONDITIONING PERSONAL TRAINER

Certificate: Strength and Conditioning Personal Trainer

Strength and Conditioning Personal Trainer Certificate Requirements

Program Description: The Strength and Conditioning Personal Trainer certificate prepares students for employment in the fitness industry as Strength and Conditioning Personal Trainers/Coaches. This curriculum provides students with a fundamental knowledge of human physiology and anatomy, prevention and treatment of exercise related injuries, emergency response readiness, health appraisals and assessments; application of exercise fitness principles and strength training techniques; a fundamental knowledge of nutrition, weight control, stress management and exercise physiology, and biomechanics; skills in exercise testing and fitness measures as well as writing exercise prescriptions and program designs for diverse populations.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner.

Program Notes:

+ indicates course has prerequisites and/or corequisites.

Required Courses: (31 Credits)

IITS

3

4



BIO160	Introduction to Human Anatomy and Physiology	4
HES154	First Aid/Cardiopulmonary Resuscitation	3
HES271	Prevention and Treatment of Athletic Injuries	3
PED112	Professional Applications of Fitness Principles	3
PED125	Exercise Science	3
PED130	Strength Fitness-Physiological Principles and Training	
	Techniques	3
PED145	Guidelines for Exercise Testing and Prescription	3
HES100	Healthful Living	3
+PED275	Methods of Enhancing Physical Performance	3
+PED285	Exercise Program Design and Instruction	3



TEACHER ASSISTING

Division Chair - Occupational Education: Fredrick Maihofer (623) 935-8468

Degree: Associate in Applied Science (AAS), Teacher Assisting (NOTE: See page 72 for AAS degree requirements.)

Teacher Assisting AAS Degree Requirements

Program Description: This program is designed to prepare for employment as an assistant to the classroom teacher in grades k-12. The curriculum includes experiences as a teacher assistant in an educational setting under the leadership and supervision of a professional teacher. The program provides foundation work, which will allow the aide to pursue a higher degree in the field of education.

Note: Students should consult with an advisor in planning their academic schedule in order to complete degree or certificate requirements in an expedient manner. Required courses may not be available every semester or year. Due to limited course offerings, students may find it necessary to extend completion time lines and attend day, evening and summer classes.

Required Courses:	(6 Credits)	Credits
EDU205	Self Assessment for Teaching	3
EDU2221	Introduction to Education	3
Restricted Elective	es: (9 Credits)	Credits
EDU222	Introduction to the Exceptional Learner	3
EDU230	Cultural Diversity in Education	3
EDU291	Children's Literature (3) OR	
ENH291	Children's Literature 3	3
EDU282AA	Volunteerism for Education: A Service Learning E	xperience (1)
	OR	
EDU282AB	Volunteerism for Education: A Service Learning E	xperience (2)
	OR	
EDU282AC	Volunteerism for Education: A Service Learning E	xperience (3)
	OR	
EDU296WA	Cooperative Education (1) OR	
EDU296WB	Cooperative Education (2) OR	
EDU296WC	Cooperative Education (3)	1-3
+ENG213	Introduction to the Study of Language	3
POS220	U.S. and Arizona Constitution	3

Free Electives: (25 Credits)

General Studies Requirements: (24-27 Credits) Core: (15-17Credits)

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)

Oral Communication:

Orai Communic	ation:	
COM100	Introduction to Human Communication (3) OR	
COM110	Interpersonal Communication (3)	
+COM225	Public Speaking (3) OR	
+COM230	Small Group Communication (3)	3

6



Teaching Assisting AAS Degree Requirements Continues...

Critical Reading:

+CRE101 Critical and Evaluative Reading I

Mathematics:

+MAT102 Mathematical Concepts/Applications (3) OR

+MAT120 Intermediate Algebra (5) OR +MAT122 Intermediate Algebra (3) OR

(Note: equivalent as indicated by assessment OR approved mathematics courses which are required in a specific AAS program or satisfactory completion of a higher level mathematics course)

3-5

3

3

Distribution: (9-10 Credits) Humanities and Fine Arts:

Any approved general education course in the Humanities and Fine Arts area 2-3

Social and Behavioral Sciences:

Any approved general education course in the Social and Behavioral Science area

Natural Sciences:

Any approved general education course in the Natural Sciences area 4

(Note: + indicates course has prerequisites and or corequisites.)

TOTAL QUALITY MANAGEMENT

Division Chair - Occupational Education: Fredrick Maihofer (623) 935-8468

Certificate: Total Quality Management

Total Quality Management Certificate Requirements

Program Description: This program prepares students to be competitive in today's domestic and global economies. It provides the student quality management theories and skills to better serve both internal and external customers. Emphasis is on practical application of skills and knowledge.

Required Courses: (9 Credits)		Credits
TQM/CSM101	Quality Customer Service	3
TQM201	Total Quality Concepts	2
TQM214	Principles of Process Improvement	2
TQM230	Teamwork Dynamics	2

NOTE: Students must earn a grade of "C" or better for each course listed in the "Required Courses" area.



WEB DEVELOPMENT

Division Chair - Instructional Computing: Dr. Valerie Akuna (623) 935-8079

Certificate: Web Developer

Web Developer Certificate Requirements

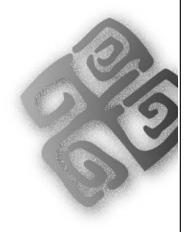
Program Description: This certificate prepares a software developer to properly create and maintain web applications. In addition to web page development, this certificate prepares software developers to fully manage and develop corporate web systems using interactive applications. Developers will be able to write programs to manage corporate database via the web.

Required Courses:	(30 Credits)	Credits
CIS105	Survey Computer Information Systems	3
BPC/CIS117DM	Microsoft Access: Database Management	3
CIS120DC	Computer Graphics: Macromedia Flash	3
BPC/CIS120DF	Computer Graphics: Adobe Photoshop (3) OR	
BPC/CIS120AF	Computer Graphics: Adobe Photoshop: Level I (1) AND	
BPC/CIS120BF	Computer Graphics: Adobe Photoshop: Level II (1) A	ND
BPC/CIS120CF	Computer Graphics: Adobe Photoshop: Level III (1)	3
CIS126AA	UNIX Operating System: Level I	1
CIS/BPC133DA	Internet/Web Development Level I	3
+CIS166++	Web Scripting/Programming (any module)	3
+CIS233DA	Internet/Web Development Level II	3
+CIS234	XML Application Development	3
+CIS235	e-Commerce	3
+CIS298AB	Special Projects (2) OR	
+CIS290AB	Computer Information Systems Internship (2) OR	
+CIS296WB	Cooperative Education (2)	2

(Note: + indicates course has prerequisites and/or corequisities)

++ indicates any module

NOTE: Students must earn a grade of "C" or better for each course listed within the program.







The SouthWest Skill Center opened summer of 1999 at Estrella Mountain Community College. Age Requirement: 16 years of age, 18 years of age for Nursing Assistant Program and Practical Nurse Program.

Classes begin Every Monday, with the daytime program running Monday through Friday from 8:00am-4:00pm, and the evening program running Monday through Thursday from 5:00pm-9:00pm, with the exception of the Nursing Program which runs from 3:00 pm to 9:30pm, Monday through Thursday.

Tuition is \$4.10 per clock hour, \$5.10 per clock hour for the Nursing Program, lab fees are applied accordingly per program, and there is a \$15.00 registration fee. Registration fees are nonrefundable. Tuition and fees apply from July 1, 2006 through June 30, 2007, and are subject to change per Governing Board approval.

Rio Salado College Learning Center

SouthWest Skill Center students, as well as members of the community at large, are welcomed to participate in Rio Salado's Learning Center programs. The Center offers instructor-led classes as well as independent learning opportunities through computer-assisted instruction, audio and video tapes, textbooks and study guides.

Students can increase their basic skills in math, writing, reading comprehension and, if necessary, prepare to pass the high school equivalency exam (GED). Non-English speaking students can become proficient in the English language through the ESOL (English for Speakers of Other Languages) program. All services are offered at no cost to the student. Many Learning Center graduates are referred to EMCC to continue their education.

Hours of operation are Monday through Thursday, 8:00am-12:00pm and 1:00pm-4:00pm; Tuesday, Wednesday, and Thursday, 5:00pm-8:00pm, and Friday, 8:00am-12:00pm

For information, please call (623) 535-2764.



Business Technology Program

If you wish to explore before deciding on a focus or if you wish to create a program of study more customized to your immedicate career goals, the SouthWest Skill Center offers a course-by-course opportunity to tailor a career and technical training program to your needs. The following open-entry, open-exit, self-paced courses center on business and computer technology with new classes beginning every Monday. Courses apply as Estrella Mountain Community College articulated credit.

Certificates of Completion:

315 clock hours
420 clock hours
630 clock hours
840 clock hours
1190 clock hours
1550 clock hours



Introduction to accounting with emphasis on analysis and applications of financial information. Prerequisites: None GBS151 and reading ability equivalent to RDG091 suggested but not required.

BPC005-Brief Introduction to Computers

Introductory course in fundamentals of computers, including hardware components, operation system charecteristics, and basic software applications. Prerequisites: None.

BPC102AD- Using Windows: Level I

Basic commands and methods associated with the Windows operating systems. Prerequisites: None.

BPC103AK- Using Word: Level I

Use of Word to create, manipulate and print documents on a microcomputer. Prerequisites: None.

BPC103BK- Using Word: Level II

Advanced concepts and skill development using Word to format, layout and design quality documents. Prerequistes: BPC102AD and BPC103AK, or permission of department.

BPC104AD- Using Excel: Level I

Use of Excel to create, edit, save and pring worksheets. Prerequisites: None

BPC104BD- Using Excel: Level II

Use of Excel to enhance worksheets to include graphing and formatting data, using complex formula and function expressions to build and analyze data, and special print options to output worksheets and graphs. Prerequisites: BPC104AD or permission of instructor.

BPC106AH-MS Outlook: Level I

Messaging and word processing functions of a Microsoft Outlook electronic work state. Prerequisites: None.

BPC106BH-MS 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.

BPC107AH- Using Access: Level I

Use of Access to create, edit and selectively report data. Prerequisites: None.





BPC107AH-Using Word: Level I

Use of Word to create, manipulate and print documents on a microcomputer. Prerequisites: None.

BPC107BH - Using Access: Level II

Use of Access commands to manipulate data files, generate data entry screens, generate complex reports with multiple level totals, transport data between a computer database program and other programs. Creation and use of command files. Prerequisites: BPC107AH or permission of instructor.

BPC111AA - Computer Keyboarding I

Mastery of essential microcomputer keyboarding skills. Emphasis on touch typing of alphabetic and numeric keys and symbols. Prerequisites: None.

BPC113AA - Basic Micro-Alphabetic Filing

Microcomputer filing skills of individual and business names. Prerequisites: None.

BPC118AB - PowerPoint: Level I

Use of PowerPoint software to produce professional-quality presentation visuals. Prerequisites: None.

BPC118BB - PowerPoint: Level II

Use of PowerPoint software add movement and sound to desktop presentations to enhance audience attention. Prerequisites: BPC/CIS118AB.

BPC118CB - PowerPoint: Level III

Use of PowerPoint software for advanced desktop presentation techniques, including advanced animation and sound sequences. Prerequisites: BPC/CIS118BB.

BPC128AF - Intro to Desktop Publishing: MS Publisher

Presents basic concepts of commercially prepared software used to do desktop publishing. Incorporates a combination of narrative and pictorial/graphic creation and presentation, including set-up, text entry, graphic generation, text and graphic merging, and other computer-based functions. Prerequisites: None.

BPC133AA - Internet/Web Development: Level IA

Overview of the Internet and its resources. Hands-on experience with various Internet communication tools. Prerequisites: None.

BTP222 - Telephone Training Work Exp.

This two week work exposure period is designed to familiarize the student with the many options related to a multi-line business phone system. Message taking, pleasant phone voice, using the transfer and hold features. Students are in an actual working environment on campus or in the field with working professionals to guide and motivate. Students utilize the experience as a volunteer and networking opportunity which may result in receiving a reference from a professional in the clerical field.

OAS116 - Speedwriting for Note Taking

Basic principles of speedwriting. Mastery of note taking and practice in techniques, vocabulary, legibility of writing, and speed building. Emphasis on note taking in various business situations. Prerequisites: None.

OAS118 - 10-Key by Touch

Touch system of numeric keys on ten-key pads. Prerequisites: None.

OAS120 - Financial Record Keeping

Computerized application of concepts and procedures of office record keeping; includes finance and personnel records, inventory systems, banking procedures and cash control; decision-making process for solving financial problems. Prerequisites: None.

OAS121 - Techniques of Proofreading

Recognition of errors in mechanics, format, and content in any written communication. Prerequisites: ENG101, or OAS108, or permission of instructor.



OCS100 - Basic Office Skills

Develop techniques and workplace skills to achieve professional office etiquette. Broad, basic knowledge and skills necessary for the workplace. Includes knowledge of basic business equipment, office documents and procedures, and telephone etiquette. Develop rapid writing techniques for note taking of messages and minutes. Use appropriate software and computers for office communications. Develop skills to enable efficient workflow management in a business setting. Investigate functionality and protocol of electronic mail systems. Prerequisite: None.

Health Care Core Curriculum

The following courses make up the pathway that can lead a student into the Medical Assistant Program, the Medical Terminology & Transcription Program and/or the Nurse Assistant Program. Individual program requirements follow this listing.

HCC109 - CPR for Health Care Provider Current American Heart Association standards for one and two rescuer cardiopulmonary resuscitation (CPR) and obstructed airway procedures on the adult, infant, and pediatric victim. Use of automated, external defibrillation and resuscitation equipment. Prerequisites: None. Cross-References: RES109

HCC130AA - Health Care Today Overview of current health care professions including career and labor market information. Health care delivery systems, third-party payers, and facility ownership. Health organization structure, patient rights and quality care. Prerequisites: None.

HCC130AB - Workplace Behaviors in Health Care Health care and life values. Definition and importance of values, ethics, and essential behaviors in the workplace. Worker rights and responsibilities. Prerequisites: None.

HCC130AC - Personal Wellness and Safety Introduces healthful living practices to include nutrition, stress management, and exercise. Includes Occupational Safety and Health Administration (OSHA) standard precautions and facility safety. Use of principles of body mechanics in daily living activities. Prerequisites: None.

HCC130AD - Communication and Teamwork in Health Care Organizations Emphasis on basic communication skills which facilitate team work in the health care setting. Focus on development of personal communication skills and an understanding of how effective communication skills promote teamwork. Focus on intercultural communication strategies. Prerequisites: None.

HCC130AE - Legal and Ethical Issues in Health Care Basic, legal terminology used in the health care setting. Basic legal concepts related to health care employment. Identification of ethical guidelines including client privacy and rights and ethical decision making. Prerequisites: None.

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

HCC145AA - Medical Terminology for Health Care Workers I Introduction to medical terms used in health care. Body systems approach to selected terms related to structures, functions, diseases procedures, and diagnostic tests. Building and analyzing terms using basic word parts. Selected medical abbreviations and symbols and term spelling. Prerequisites: None.

HCC145AB- Medical Terminology for Health Care Workers II Additional medical terms used in health care. Body systems approach to more detailed terms related to structures, functions, diseases, procedures, and diagnostic tests. Building and analyzing terms using standard word parts. Common abbreviations and symbols and term spelling. Prerequisites: HCC145AA.







HCC145AC- Medical Terminology for Health Care Workers III Medical terminology used with special care populations and in special services. Includes obsteric, pediatric mental health, diagnostic imaging, oncology, and surgery terms. Use of word parts and term spelling. Prerequisites: HCC145AA and HCC145AB, or HCC146.

Medical Assistant Program

Students learn clinical and administrative skills needed to work in a doctor's office. Medical Assistants are skilled professionals who can run a busy office and handle the medical tests performed in a doctor's office. As part of MCCD's Health Care Integrated Education System, the SouthWest Skill Center Medical Assistant courses cover the same content material as the MCCD college credit courses and are included in an articulation agreement, which make them transferable within the MCCD college district. For more information, call at (623) 535-2788.

Certificates of Completion:

Front and Back Office 1013 clock hours
Front Office 600 clock hours
Back Office 668 clock hours

Health Care Core Curriculum

HCC109 - CPR for Health Care Provider

HCC130AA - Health Care Today

HCC130AB - Workplace Behaviors in Health Care

HCC130AC - Personal Wellness and Safety

HCC130AD - Communication and Teamwork in Health Care Organizations

HCC130AE - Legal and Ethical Issues in Health Care

HCC130AF - Decision Making in the Health Care Setting

HCC145AA - Medical Terminology for Health Care Workers I

HCC145AB - Medical Terminology for Health Care Workers II

HCC145AC - Medical Terminology for Health Care Workers III

Medical Assistant Curriculum

Course Descriptions

HCE102 - Orientation to the Physiological and Psychological Body Systems Application of basic physiology and psychology of body systems as they relate to an entry-level health care professional's role. Prerequisites: HCC130, HCC145 or (HCC145AA, HCC145AB, and HCC145AC), or permission of instructor.

HCE109 - Phlebotomy & Specimen Processing Basic Skills Theory and practice of basic phlebotomy and specimen processing including laboratory test codes, equipment, and procedures. Prerequisites: None. Corequisites: HCC130, HCC145AA or permission of coordinator.

HCE110 - Fundamental Phlebotomy Skills Application of fundamental phlebotomy techniques in a clinical laboratory setting or health care environment. Prerequisites: HCE109 or permission of coordinator.

HCE167 - Laboratory Testing in Patient Care Service Centers Basic point of care testing in a clinical setting. Includes procedures for urinalysis, whole blood hematology, glucose monitoring cholesterol and coagulation testing. Specimen collection and handling. Compliance with Occupational Health and Safety Administration (OSHA) and the Clinical Laboratory Improvement Amendments (CLIA) regulations. Prerequisites: None. Corequisites: HCC130, HCC145, or permission of coordinator.



- HCE221 Administration of Medication Principles and procedures for administering medications. Includes classifications, uses, effects, legal regulations, calculating dosages, and correct terminology. Emphasis on oral and parental drug administration. Prerequisites: None. Corequisites: HCC130, HCC145, or permission of coordinator.
- **HCE222 Clinical Procedures** Principles and procedures for the medical assistant. Methods of assisting clinicians with physical examinations, procedures, treatments, and minor surgical procedures in the medical office. Includes vital signs, height, and weight, collection of patient data and documentation. Prerequisites: None. Corequisites: HCC130, HCC145, or permission of coordinator.
- **HCE226 Administrative Procedures** Principles and procedures for front office administrative skills. Methods of telephone management, correspondence and mail processing, appointment scheduling, medical records management and data collection. Includes medical assistant as office manager. Prerequisites: None. Corequisites: HCC130, HCC145 or permission of coordinator
- **HCE227 Insurance, Billing & Coding** Application of insurance, coding and billing. Includes legal and ethical issues, federal state, and private insurance claims. Procedural and diagnostic coding, and banking and accounting principles. Prerequisites: None. Corequisites: HCC130, HCC145, or permission of coordinator.
- **HCE229 Automated Computer System for Medical Office Management** Principles and procedures in using an office automated computerized system for entering patient information and tracking patient billing. Includes use of accounting cycle from originating data to closing ledger entries. Prerequisites: None. Corequisites: HCC130, HCC145 or equivalent or permission of coordinator.
- **HCE251 Emergencies in the Medical Office** Prerequisites: None. Corequisites: HCC130, HCC145, or permission of coordinator.
- **HCE261 Applied EKG** Entry-Level training to professionally perform, process, and explain the electrocardiogram. Overview of cardiac anatomy, physiology, and conduction systems. Overview of commonly encountered drugs in cardiac medicine. Data collection, selection, processing, and presentation of the appropriate medical/clinical professional to review. Selected specific non-invasive cardiac testing procedures. Prerequisites: None. Corequisites: HCC130, HCC145, or permission of coordinator.
- HCE274 Administrative Medical Assisting Externship Practicum in administrative medical assisting. Application of administrative duties procedures, and knowledge derived from medical assisting courses. Prerequisites: HCC130, HCC145, HCE226, HCE227, HCE/BPC229, and permission of coordinator.
- HCE275 Clinical Medical Assisting Externship Practicum in clinical medical assisting. Application of clinical skills, procedures, and knowledge derived from medical assisting courses. Prerequisites: HCC130, HCC145, HCE104, HCE109, HCE110, HCE167, HCE221, HCE222, HCE251, HCE261, and permission of coordinator.







Program Description: The Nursing Program is available at nine of the Maricopa Community Colleges. The nursing pathway provides multiple exit points for employment that begins with Nurse Assisting and continues to the Practical Nurse certificate and Registered Nurse degree program. The Nursing Program provides eligibility for students seeking certification and licensure through the Arizona State Board of Nursing. Licensing requirements are the exclusive responsibility of the Arizona State Board of Nursing.

The Nursing Program is approved by the Arizona State Board of Nursing and accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway 33rd Floor, New York, New York 10006, 212,363,5555, ext 153.

Waiver of Licensure/Certification Guarantee:

Admission or graduation from the Nursing Program does not guarantee obtaining a license or certificate to practice nursing. Licensure and certification requirements and the subsequent procedures are the exclusive right and responsibility of the Arizona State Board of Nursing. Students must satisfy the requirements of the Nurse Practice Act: Statutes, Rules and Regulations, independently of any college of school requirements for graduation.

Pursuant to A.R.S. § 32-1606(B)(17), an applicant for professional or practical nurse license by examination is not eligible for licensure if the applicant has any felony convictions and has not received an absolute discharge from the sentences for all felony convictions. The absolute discharge must be received five or more years before submitting this application. If you cannot prove that the absolute discharge date is five or more years, the Board cannot process your application.

All nurse and nursing assistant applicants for certification and licensure will be fingerprinted to permit the Department of Public Safety to obtain state and federal criminal history information. If there is any question about eligibility for licensure or certification, contact the nursing education consultant at the Arizona State Board of Nursing (602-331-8111). All students must submit a copy of a fingerprint clearance card with their application for the Maricopa Community College District Nursing Program.

Health Declaration:

It is essential that Nursing students be able to perform a number of physical activities in the clinical portion of the program. At a minimum, students will be required to lift patients, stand for several hours at a time and perform bending activities. The clinical nursing experience also places students under considerable mental and emotional stress as they undertake responsibilities and duties impacting patients' lives. Students must be able to demonstrate rational and appropriate behavior under stressful conditions. Individuals should give careful consideration to the mental and physical demands of the program prior to making application.

Health & Safety Requirements for the Nursing Program:

- 1. Students must submit a completed Health and Safety Documentation Checklist and maintain current status throughout the program.
- 2. Students must submit a CPR card for Health Care Provider and maintain current status throughout the program.
- 3. Health Declaration Form signed by a licensed health care provider.
- 4. Negative urine drug screen.

The Nurse Assisting Pathway

The nurse assisting pathway is designed to prepare students to complete the Nurse Assistant Certification through the Arizona State Board of Nursing to practice in a health care agency as a Certified Nurse Assistant. Students may apply to the Nursing Program after completing the prerequisite courses and admission requirements.

Practical Nurse Pathway

Following completion of the practical nurse level program of study, the student is eligible to apply for licensure as a practical nurse. Licensed Practical Nurses (L.P.N.) are employed in acute, long-term, and community-based health care agencies under the direction of a registered nurse or physician. Practical Nurses function within their legal scope of practice and use professional standards of care in illness and health promotion activities for clients and families across the life span.

SouthWest Skill Center Nursing Program

The SouthWest Skill Center offers their students two exit points for employment that begins with Nurse Assistant and continues to the Practical Nurse Certificate Program.

Nurse Assistant Program

The Nurse Assistant (NA) Program is a 6 week, 144 hour program. The program prerequisite, the Health Care Core Curriculum (150 clock hours), is an introduction into the health care field and is preparation for the NA course, and competencies required by the Arizona State Board of Nursing to be able to take the certification examination to become a certified nurse assistant. Completion of the NA Program does not guarantee certification. Skills lab and clinical experiences are conducted. For more information, contact the SouthWest Skill Center Nursing Department, at (623) 535-2702.

Health Care Core Curriculum (6 - 9 weeks - 150 hours)

HCC109 - CPR for Health Care Provider

HCC130AA - Health Care Today

HCC130AB - Workplace Behaviors in Health Care

HCC130AC - Personal Wellness and Safety

HCC130AD - Communication and Teamwork in Health Care Organizations

HCC130AE - Legal and Ethical Issues in Health Care

HCC130AF - Decision Making in the Health Care Setting

HCC145AA - Medical Terminology for Health Care Workers I

Nurse Assistant Curriculum (6 weeks - 144 hours)

NUR156 - Nurse Assisting Role of the nurse assistant for clients across the wellness/illness continuum within the nurse assisting scope of practice. Introduction to problem solving process specific to meeting the basic and holistic needs of clients. Professional communication skills essential for the nursing assistant. Nursing interventions to ensure the needs and safety of the client. Specific types of diseases, conditions and alterations in behavior of the client. Principles of nutrition and fluid balance. Special needs of the elder client in the acute and long-term care settings. Basic emergency care skills and procedures. Prerequisites or Corequisites: [HCC130 or (HCC130AA, HCC130AB, HCC130AC, HCC130AD, HCC130AE, and HCC130AF)] and HCC145AA, or equivalent. Corequisites: NUR157.

NUR157 - Nurse Assisting Lab Demonstration of problem solving, professional behavior and therapeutic communication skills. Demonstration of caring behaviors and ensuring environmental safety for the client. Provides opportunity for the development of clinical competency in the performance of selected nursing assisting skills and procedures through participation in the care of clients. Prerequisites: None. Corequisites: NUR156.



SouthWest Skill Center Practical Nurse Program

The Practical Nurse Program (PN) is an accelerated program which meets the requirement of the Arizona State Board of Nursing to prepare students to take the NCLEX-PN licensing examination to become a Licensed Practical Nurse. The program is up to 42 weeks after completion of prerequisites or 1008 clock hours.

Practical Nurse Curriculum

HCC145AA - Medical Terminology for Health Care Workers I

HCR240AA Human Pathophysiology I HCR240AB Human Pathophysiology II

PNC200AA Therapeutic and Clinical Communication PNC200AB Structure and Function of the Body

PNC200AD Medical Math Calculations PNC200AE Fundamentals of Nursing

NUR156 Nurse Assisting

NUR157

Nurse Assisting Lab/Clinical

NUR161

Nursing Process/Critical Thinking

NUR163

Health Assessment/Health Promotion I

NUR167

Pharmacology Medication Administration I

NUR169

Nursing Science I

NUR181 Nursing Process/Critical Thinking

NUR185

Developing Nurse's Role I

NUR187 Pharmacology and Medication Administration II

NUR189 Nursing Science II

Course Descriptions:

HCC145AA - 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.

NUR161 - Nursing Process/ Critical Thinking Overview of nursing concepts and theories focusing on meeting basic human needs across the life span based on the wellness/illness continuum within the practical nurse scope of practice. Theoretical concepts focus on care of the well client, elder client, and clients with selected alterations in health and psychological/ mental health disorders. Emphasis on the role of the practical nurse in the nursing care plan utilizing established nursing diagnoses. Focus on the development of the critical thinking process related to nursing care of clients in acute care and community settings. Prerequisites: Admission into the Practical Nursing Program. Corequisites: NUR169 or permission of Nursing Department Chairperson. Course note: Nursing Process/Critical Thinking course and Nursing Science course must be successfully completed concurrently to meet program requirements.

NUR163 - Health Assessment/Health Promotion I Emphasis on basic health assessment and history skills and promotion of wellness by using holistic nursing assessments for clients. Includes use of healthy life style strategies and primary prevention. Prerequisites: Admission into the Practical Nursing Program.

NUR167 - Pharmacology Medication Administration I Basic pharmacology knowledge and skills to administer medications. Emphasis on developing the role of the nurse





using critical thinking skills for safe practice in the administration of medications. Introduction and application of mathematical concepts to drug dosage calculations. Overview of selected drug classifications and groupings. Emphasis on principles of drug metabolism and effects, interactions and adverse reactions, and nursing implications for safe practice. Prerequisites: Admission into the Practical Nursing Program.

NUR169 - Nursing Science I Development of clinical competency in the performance of selected nursing skills and procedures. Participation in the care of clients experiencing problems of alteration in health and selected mental health disorders. Clinical practice experiences with individuals and families in a variety of acute and community settings. Includes application of nursing process to care of elderly clients in acute and long-term care. Application of holistic nursing concepts and theories related to health promotion, disease/illness prevention, and health restoration of individuals. Prerequisites: Admission into the Practical Nursing Program. Corequisites: NUR161 or permission of Nursing Department Chairperson. Course Note: Nursing Process/Critical Thinking course and Nursing Science course must be successfully completed concurrently to meet program requirements.

NUR181 - Nursing Process/Critical Thinking II Focus on nursing concepts and theories to meet basic human needs across the life span based on the wellness/illness continuum. Includes concepts of anatomy, physiology, pathophysiology, and concepts of clinical nutrition to care of clients across the lifespan. Emphasis on the nursing process related to pediatric and adult clients with selected alterations in health. Introduction to care of the well childbearing client and childbearing family. Role of the practical nurse in planning nursing care and applying established nursing diagnoses for clients. Emphasis on the utilization of critical thinking processes related to nursing care of clients in acute care and community settings. Prerequisites: NUR161, NUR163, NUR169, and (HCR240 or HCR240AA) Corequisites: NUR189 or permission of Nursing Department Chairperson. Course Note: Nursing Process/Critical Thinking course and Nursing Science course must be successfully completed concurrently to meet program requirements.

NUR185 - Developing Nurse's Role I Overview of roles in nursing with emphasis on transition from nursing assistant to practical nurse. Includes introduction of the core values of the nursing program, nursing history, standards, and scope of practice. Introduces concepts and skills required of the practical nurse, and application of communication techniques and delegation to teamwork and leadership. Prerequisites: Admission into the Practical Nursing Program.

NUR187 - Pharmacology & Medication Administration II Overview of selected drug classifications and groupings. Emphasis on principles of drug metabolism and effects, interaction and adverse reactions, and nursing implications for safe practice. Prerequisites: (HCR240 or HCR240AA), NUR161, NUR163, HUR167, and NUR169.

NUR189 - Nursing Science II Application of holistic nursing concepts and theories related to health promotion, disease/illness prevention and health restoration of individual and families. Development of clinical competency in the performance of selected nursing skills, participation in the care of clients across the life span including clients with alterations in health. Experiences with individuals, families, and small groups of clients in a variety of acute care, and community settings. Application of nursing concepts and theories related to the development of care plans, client teaching, and discharge planning. Prerequisites: NUR161, NUR163, NUR169, and (HCR240 or HCR240AA) Corequisites: NUR181 or permission of Nursing Department Chairperson. Course Note: Nursing Process/Critical Thinking course and Nursing Science course must be successfully completed concurrently to meet program requirements.





Nursing Core Classes

Nursing Core Classes are non-transferable. The competencies for each course are derived from the Practical Nursing curriculum and were created to better prepare the student for the program.

PNC200AA -Therapeutic and Clinical Communication Learning and developing a purposeful and goal-directed way to communicate with your patient, colleagues, subordinates and other professionals to create beneficial outcomes. The course is designed to help you understand what communication is, how thereapeutic communication differs from normal conversation and finally, how to identify and incorporate the many positive influences and overrcome the negative influences to successful communication. The course also includes documentation, the different forms of documentation, proper terminology, and documentation as a form of communication. Within documentation an overview of the Nursing Process is presented.

PNC200AB -Structure and Function of the Body Structure and Function of the body is the study of anatomy & physiology. Includes cells, tissues, integumentary system, skeletal system, muscular system, nervous system, endocrine system, circulatory

PNCAD -Medical Math Calculations Review of basic math skills, addition, subtraction, multiplication, division, fractions, decimals, percentages, metric conversions, pharmacology abbreviations, common equivalents and drug caluculations.

PNC200AE -Fundamentals of Nursing Overview of nursing concepts and theories focusing on promoting health and wellness, preventing illness, restoring health, and caring for the dying within the practical nurse scope and practice. Includes concepts focus on developing critical thinking skills and performing basic therapeutic, rehabilitative, preventive, and palliative care for individuals.







MCCCD OCCUPATIONAL PROGRAMS

COLLEGE INDEX:

CG = Chandler Gilbert Community College

EM = Estrella Mountain Community College

GC = Glendale Community College

GW = **GateWay Community College**

MC = Mesa Community College

PC = Phoenix College

PV = Paradise Valley Community College

RS = Rio Salado College

SC = Scottsdale Community College

SM = South Mountain Community College

AGRICULTURE

Agribusiness Sales and Service

Pest Management Aide MC

Agricultural Production and Management

Agribusiness GC, MC

(See Agribusiness Sales and Service and Horticulture

sections for additional programs and related areas)

Ranch and Livestock Management Aide MC
Ranch and Livestock Management Specialist MC

Urban Horticulture GC, MC

(See Horticulture section for additional programs and related areas)

Equine Training and Management

Equine Science SC Veterinary Technology/Animal Health MC

Horticulture

Landscape AideMCLandscape Design and InstallationCCLandscape ManagementCCLandscape SpecialistMCNursery OperationsCC

(See Agricultural Production and Management section for additional programs and related areas)

BUSINESS

Accounting

Accounting PC
Accounting - Specialized Para-Professional PV
Bookkeeping SC
Bookkeeping/Accounting GW

Microcomputer Accounting GW, PC, PV

(See Business Administration for additional information and related areas)

Paraprofessional Accounting GC

Business Administration

Business MC, SC
Business (Fastrack) SC
General Business CG, GC, GW,PC, PV

(See Management and Finance section for additional programs and related areas)

International Business SC International Trade MCC



154

	(0)
THAT	
XX7	{€

Computer Science	Network Administration: CISCO Network Associate MC
Computer Applications Technology EM	Network Administration: CISCO Network Professional MC
Computer Applications: Microsoft Office	Network Administration: Microsoft Windows NT MC
Specialist/Advanced MC	Network Administration: Microsoft Windows MC
Computer Applications: Microsoft Office	Network Administration: Novell MC
Specialist/Basic MC	Network Administration: UNIX-Solaris MC
Computer Hardware and Desktop Support CG, EM, GW, MC,	Network Administration: Microsoft Windows MC
PC, SC	Network Professional RS
Computer Hardware and Network Support SC	Network Security MC
Computer Information Systems GC, MC, PC, PV, SC, SM	Networking RS
Computer Networking Technology PV	Networking Administration: Cisco CG, EM, GC, GW, SM, PC
Computer Programming & Analysis SM	Networking System Administration MC
Computer Systems Maintenance PV	Networking Technology: Cisco CG, EM, GC, GW, PC,SM
Computer Technology RS	Oracle Database Administrator GC, EM
Computer Usage and Applications RS	Oracle Database Operations CG
Database Development SC	Personal Computer Applications SC
Desktop Publishing EM	Programming Methodology MC
Education Technology GW	Programming RS
Geographic Information Systems MC	Programming and System Analysis EM, GC, GW, MC, PC,
Helpdesk Specialist CC	PV, SC
Information Assurance MC	Software Development SC
Information Security CG, EM, GC, GW, PC	Technology Helpdesk Support RS
Information Security Administration CG, EM, GC, GW	Technology Troubleshooting and A+ Preparation RS
Information Security Technology CG, EM, GC, GW, PC	Web Design GC, GW, PV, SC
Information Security Wireless Networks CG, EM, GC, GW	Web Designer Assistant MC
Information Technology CG, SM	Web Designer MC
Internet Design and Development SM	Web Developer GC, GW, MC, PC
Web Developer MC	PV,EM
Linux Associate CG, EM, GC, GW, MC	Web Development SC
Linux Networking Administration CG, EM, GC, GW, MC	Web Master RS
Linux Professional CG, EM, GC, GW, MC, PV	Web Server Administrator MC
Linux Systems Administration SM	Web Technology MC
Microcomputer Applications CC	Finance
(See Office Occupations section for additional programs and	Banking and Finance PC
related areas)	General Business- Insurance Level I PC
Microcomputer Applications: Office Specialist/Core Level	General Business - Insurance Level II PC
G	General Business - Insurance PC General Business - Insurance PC
(See Office Occupations section for additional programs and	Real Estate GC, MC
related areas)	Real Estate: Prelicense PC
Microcomputer Applications: Office Specialist/Expert Level	Home Instruction MC
G	Home Inspection: Basic Inspector PC
(See Office Occupations section for additional programs and	Home Inspection: Business Owner Operator Inspector
related areas)	PC
Microcomputer Business Applications CGGC	Management
(See Office Occupations section for additional programs and	Business Management SM
related areas)	<u> </u>
Microsoft Applications Specialist SM	Credit Union Management PC General Business GW, PC
Microsoft Database Administration CG	
	Management PC, MC, SC Management I PC
Microsoft Desktop Support Technology CG, EM, GC, GW, MC, PV, SC	Management II PC
l ·	Middle Management GC,PV
	•
Microsoft Product Specialist CG, EM, GC, GW, PV, SC	Military Leadership RS Public Administration RS
Microsoft Applications Development CG, GW, MC, PV, SC	
Microsoft Systems Administration CG, EM, GC, GW, PV, SC, SM	<u> </u>
Microsoft Systems Engineer CG, EM, GC, GW, PV, SC Network Administration SC	
Network Administration SC	(See Middle Management section for additional programs and
	related areas)

//	/// \	6 /	// (0 /	/ 4		155
				1	<i>(V)</i>	

SupervisionGCRealtime Reporting ScopingGWSupervision and Management ISMRealtime Reporting -Broadcast CaptioningGWSupervision and Management IISMRealtime Reporting-JudicialGW	155
Retail Management CG, GC,GW, EM, MC, PC, PV, RS, SM Retail Sales Manager MC Office Specialist: Computer Applications GW Small Business MC Office Support I PC Small Business Entrepreneurship GC, SM Office Support II PC, Small Business Management EM Office Support II PC, Small Business Management EM Office Support II PC, Supervision GC Realtime Reporting Scoping GW Supervision and Management I SM Realtime Reporting -Broadcast Captioning GW Supervision and Management II SM Realtime Reporting-Judicial GW Supervision GC Receptionist EM, Supply Chain and Operations Management GW Scoping GW Tribal Development SC Word Processing GW Marketing MAC, PC, SC Automobile Insurance: Customer Service RS Marketing II PC Credit Counseling: Customer Service RS Marketing II PC Credit Counseling: Customer Service RS Media Technology Human Services - Assistance: Customer Service RS Media Technology	С
Retail Sales ManagerMCOffice Specialist: Computer ApplicationsGWSmall BusinessMCOffice Support IPCSmall Business EntrepreneurshipGC, SMOffice Support IIPCSmall Business ManagementEMOffice SupportPC, GupportSupervisionGCRealtime Reporting ScopingGWSupervision and Management ISMRealtime Reporting -Broadcast CaptioningGWSupervision and Management IISMRealtime Reporting-JudicialGWSupervisionGCReceptionistEM,Supply Chain and Operations ManagementGWScopingGWTribal DevelopmentSCWord ProcessingSCMarketingMC, PC, SCAutomobile Insurance: Customer ServiceRSMarketing IPCAutomobile Policy: Customer ServiceRSMarketing IIPCCredit Counseling: Customer ServiceRSSalesmanshipMCDigital Telecommunications: Customer ServiceRSMedia TechnologyHuman Services - Assistance: Customer ServiceRS	C
Small BusinessMCOffice Support IPCSmall Business EntrepreneurshipGC, SMOffice Support IIPCSmall Business ManagementEMOffice SupportPC, GSupervisionGCRealtime Reporting ScopingGWSupervision and Management ISMRealtime Reporting -Broadcast CaptioningGWSupervision and Management IISMRealtime Reporting-JudicialGWSupervisionGCReceptionistEM,Supply Chain and Operations ManagementGWScopingGWTribal DevelopmentSCWord ProcessingSCMarketingMC, PC, SCAutomobile Insurance: Customer ServiceRSMarketing IPCAutomobile Policy: Customer ServiceRSMarketing IIPCCredit Counseling: Customer ServiceRSSalesmanshipMCDigital Telecommunications: Customer ServiceRSMedia TechnologyHuman Services - Assistance: Customer ServiceRS	W
Small Business Management Supervision Supervision and Management I Supervision and Management II SM Realtime Reporting -Broadcast Captioning GW Supervision and Management II SM Realtime Reporting-Judicial GW Supervision GC Receptionist Supervision GC Receptionist Supply Chain and Operations Management GW Scoping GW Tribal Development SC Word Processing Total Quality Management Marketing Marketing Marketing I PC Automobile Insurance: Customer Service RS Marketing II PC Credit Counseling: Customer Service RS Malesmanship MC Digital Telecommunications: Customer Service RS Media Technology	•
Small Business ManagementEMOffice SupportPC, or SupervisionSupervisionGCRealtime Reporting ScopingGWSupervision and Management IISMRealtime Reporting -Broadcast CaptioningGWSupervision and Management IISMRealtime Reporting-JudicialGWSupervisionGCReceptionistEM,Supply Chain and Operations ManagementGWScopingGWTribal DevelopmentSCWord ProcessingSCMarketingMC, PC, SCAutomobile Insurance: Customer ServiceRSMarketing IIPCAutomobile Policy: Customer ServiceRSMarketing IIPCCredit Counseling: Customer ServiceRSSalesmanshipMCDigital Telecommunications: Customer ServiceRSMedia TechnologyHuman Services - Assistance: Customer ServiceRS	3
Supervision and Management I SM Realtime Reporting -Broadcast Captioning GW Supervision and Management II SM Realtime Reporting-Judicial GW Supervision CC Receptionist EM, Supply Chain and Operations Management GW Scoping GW Tribal Development SC Word Processing SC Marketing Total Quality Management Marketing Marketing I PC Automobile Insurance: Customer Service RS Marketing II PC Credit Counseling: Customer Service RS Salesmanship MC Digital Telecommunications: Customer Service RS Media Technology	C, GW
Supervision and Management II SM Realtime Reporting-Judicial GW Supervision CC Receptionist EM, Supply Chain and Operations Management GW Scoping GW Tribal Development SC Word Processing SC Marketing Total Quality Management Marketing I MC, PC, SC Automobile Insurance: Customer Service RS Marketing II PC Automobile Policy: Customer Service RS Marketing II PC Credit Counseling: Customer Service RS Salesmanship MC Digital Telecommunications: Customer Service RS Media Technology	W
SupervisionGCReceptionistEM,Supply Chain and Operations ManagementGWScopingGWTribal DevelopmentSCWord ProcessingSCMarketingTotal Quality ManagementMarketing IMC, PC, SCAutomobile Insurance: Customer ServiceRSMarketing IIPCAutomobile Policy: Customer ServiceRSSalesmanshipMCDigital Telecommunications: Customer ServiceRSMedia TechnologyHuman Services - Assistance: Customer ServiceRS	W
Supply Chain and Operations ManagementGWScopingGWTribal DevelopmentSCWord ProcessingSCMarketingTotal Quality ManagementMarketing IMC, PC, SCAutomobile Insurance: Customer ServiceRSMarketing IIPCAutomobile Policy: Customer ServiceRSMarketing IIPCCredit Counseling: Customer ServiceRSSalesmanshipMCDigital Telecommunications: Customer ServiceRSMedia TechnologyHuman Services - Assistance: Customer ServiceRS	W
Tribal DevelopmentSCWord ProcessingSCMarketingTotal Quality ManagementMarketing IMC, PC, SCAutomobile Insurance: Customer ServiceRSMarketing IPCAutomobile Policy: Customer ServiceRSMarketing IIPCCredit Counseling: Customer ServiceRSSalesmanshipMCDigital Telecommunications: Customer ServiceRSMedia TechnologyHuman Services - Assistance: Customer ServiceRS	M,GC
MarketingTotal Quality ManagementMarketingMC, PC, SCAutomobile Insurance: Customer ServiceRSMarketing IPCAutomobile Policy: Customer ServiceRSMarketing IIPCCredit Counseling: Customer ServiceRSSalesmanshipMCDigital Telecommunications: Customer ServiceRSMedia TechnologyHuman Services - Assistance: Customer ServiceRS	\mathcal{N}
MarketingMC, PC, SCAutomobile Insurance: Customer ServiceRSMarketing IPCAutomobile Policy: Customer ServiceRSMarketing IIPCCredit Counseling: Customer ServiceRSSalesmanshipMCDigital Telecommunications: Customer ServiceRSMedia TechnologyHuman Services - Assistance: Customer ServiceRS	7
Marketing IPCAutomobile Policy: Customer ServiceRSMarketing IIPCCredit Counseling: Customer ServiceRSSalesmanshipMCDigital Telecommunications: Customer ServiceRSMedia TechnologyHuman Services - Assistance: Customer ServiceRS	
Marketing IIPCCredit Counseling: Customer ServiceRSSalesmanshipMCDigital Telecommunications: Customer ServiceRSMedia TechnologyHuman Services - Assistance: Customer ServiceRS	5
Salesmanship MC Digital Telecommunications: Customer Service RS Media Technology Human Services - Assistance: Customer Service RS	5
Media Technology Human Services - Assistance: Customer Service RS	5
	5
Broadcast Production SC Human Services-Long Term Care:	5
Digital Photography PC Customer Service RS	3
Editing SC Human Services-Specialist: Customer Service RS	3
Film Analysis and Criticism SC Insurance-Customer Service RS	3
Film Production SC Organizational Leadership CG, EM, GW, MC, PV, F	, RS,
Screenwriting SC Pharmacy Benefits Management - Customer Service RS	3
Media Arts: Computer Art/Illustration CG, MC, PC, PV Pharmacy: Customer Service RS	3
Media Arts: Desktop Publishing PC, MC Quality Customer Service GW,	W, RS
Media Arts: Digital Animation PC, MC Quality Process Leadership GW,	W, RS
Media Arts: Digital Imaging CG, PC, MC Telecommunications: Customer Service RS	3
Media Arts: Web Page Design PC, MC Total Quality Management EM	N
Motion Picture/Television Production SC Travel Agency: Customer Service RS	3
Multimedia GC Utilities Customer Service RS	3
Multimedia Imaging and Animation CC HEALTHOCCUPATIONS	
Multimedia Web Design CC Allied Health	
Screenwriting SC Advanced Behavioral Health Sciences/Recovery SM	
Video Production Technology CC Advanced Behavioral Health Sciences SM	
Middle Management Basic Behavioral Health SM	
Public Relations MC Clinical Laboratory Sciences PC	7
	C, SC
	C,CG
Office Occupations Diagnostic Medical Ultrasound GW	
Customer Service/Information Professional PV Direct Care Practice MC	
Administrative Office Coordinator CC Donor Phlebotomy PC	
Call Center Supervision CC Electroneurodiagnostics GW	
Computer Application PC Health Information PC	
Computer Software Applications PV Health Information Technology PC	
Data Entry Clerk EM, GC Health Services Management GW	
General Office Secretary EM, GC Health Unit Coordinating GW	
Paralegal Studies PC Histology Technician PC	
Legal Secretarial PC Hospital Central Service Technology GW	
Legal Office Support PC Laboratory Assisting PC	
Medical Office Support PC Computed Tomography GW	
Medical Office Support: Basic Clerical PC Medical Assisting PC	
Medical Office Support: Basic Transcription PC Medical Billing PC	
Administrative Office Professional PV Medical Coding: Hospital- Based PC	
Office Automation Systems GW, SC, SM Medical Coding: Physician Based PC	
Office Coordinator CC Medical Front Office PC	
Office Fundamentals SC Medical Radiography GW	

156				
Medical Transcription		GW	Teacher Assisting	EM, GW
Nuclear Medicine Technol	logy	GW	Family and Consumer Science	
Patient Care Technician		PC	Nutrition for Fitness and Wellness	GC,MC
Perioperative Nursing		GW	Food and Nutrition	
Phlebotomy		PC	Advanced Professional Culinary Arts	SC
Physical Therapist Assisti	ng	GW	Basic Culinary Studies	EM
Respiratory Care		GW	Commercial Food Preparation	PC
Radiation Therapy		GW	Culinary Studies	EM,PC, MC
Surgical Technolgist Assis	sting	GW	(See Hospitality section for additional p	rograms and
Surgical Technology		GW	related areas)	
Dental			Dietetic Technology	CG,PV
Clinical Dental Assisting		RS	Food Service Administration	PC
Dental Assisting		PC, MC	Professional Food and Beverage Service	PC
Dental Hygiene		PC, RS, MC	Home Economics	
Dental Office Managemen		PC	Advanced Interior Design	PC
Emergency Medical Techn			Apparel Construction	PC
Advanced Emergency Med			Costume Design and Production	MC
Technology (Paramed		C, PC, SC, PV	Fashion Design	PC
Basic Emergency Medical		C, PC, SC,PV	Fashion Design Level I	PC
Community Emergency Re Level I	esponse Team (CERT):	DC.	Fashion Design Level II	PC PC
	d Dl	PC PC	Fashion Illustration Level I Fashion Illustration Level II	PC PC
Emergency Communication		MC, PC	Fashion Illustration Level III	PC PC
Intermediate Emergency N		,		MC, PC, SC
areas)	ion for additional progran	iis and refated	Interior Design Home Furnishing & Materials	GC, MC, PC
Paramedicine		MC	Interior Design	MC, PC, SC
Secondary Basic Emergen	ov Modical Tachnology	PC	Interior Design: Professional Level	SC
Nursing	cy Medicai Technology	rc	Pattern Design Level I	PC
Fast Track Practical Nursin	ισ	GW	Pattern Design Level II	PC
Nursing	GC, GW, MC, PC, PV		Merchandising	10
Nurse Assisting	GC, GW, MC, PC		Apparel Merchandising & Design	MC
Practical Nursing	GC, GW, MC, PC		Fashion Merchandising	PC
HOMEECONOMICS	00,011,110,10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Image Consultant	MC
Early Childhood Education	1		SERVICE OCCUPATIONS	1.10
Adult Development and A		GC,MC	Administration of Justice	
Adolescent Studies	6 6	PC	Administration of Justice	EM,GC, PC
Adolescent Development		GC, MC	Administration of Justice Comprehensive	PC
Child and Family Organiza	ntion Management and	,	Administration of Justice Fundamentals	PC
Administration	C	GC, MC	Administration of Justice Studies	CG, MC, SC
Child Care Administration		PC	Advanced Corrections	RS
Classroom Management fo	or Infants, Toddlers and		Basic Corrections	RS
Preschool Children	ı	PC	Corrections	RS
Early Care and Education		MC	Crime and Accident Scene Photography	PC
Early Care Specialist		MC	Crime and Intelligence Analysis	Œ
Early Childhood Developn	nent	SC, SM	Crime Scene Investigation	SC
Early Childhood Education	1	PV,GC	Criminal Justice Studies	Œ
Family Life Education		GC, MC, SC	Crime Scene Technology	SC
Family Resources		PC	Cyber Forensics Technician	MC
Family Support		PC	Detention Services	RS
Infant/Toddler Developme		SC	Evidence Technology	PC
Parent Education		GC, MC, SC	Fingerprint Classification and Identification	PC
Education			Forensic Investigation	MC
Bilingual Endorsement		MC, PC	Forensic Science: Crime Lab	SC
English as a Second Langu	age (ESL)		Global Citizenship	MC
Endorsement		MC, PC	Homeland Security	Œ
Instructional Assistance		MC, PC	Information Assurance	MC
Reading Specialist Endors	ement	MC, PC	Information Security Forensics	EM, GC, GW, SM



Justice Agencies Support Justice Agencies Support Level I Justice Agencies Support Level II Justice Agencies Support Level II Justice Studies Law Enforcement Technology Field Training MC, PC MC, PC Pro Shop Management Recreational Resources and Facilities Managem Recreational Resources and Facilities Managem Turf and Irrigation	PC
Justice Agencies Support Level IIMC, PCPro Shop ManagementJustice StudiesCG,SCRecreational Resources and Facilities ManagemLaw Enforcement Technology Field TrainingRSTurf and Irrigation	PC
Justice Studies CG,SC Recreational Resources and Facilities Managem Law Enforcement Technology Field Training RS Turf and Irrigation	
Law Enforcement Technology Field Training RS Turf and Irrigation	ant.
	PC
Law Enforcement Investigator CC Recreation Management N	IC, PC, SC
Law Enforcement Technology RS Health and Physical Education/Fitness	10,10,50
Law Enforcement SC Group Fitness Instructor	GC, MC
Law Enforcement Training Academy GC,CG	GC, MC
Police Academy Preparation Level I SC Personal Trainer	GC, MC
Police Science MC, SC Strength and Conditioning Personal Trainer	30,1110
Police Supervision GC MC, CG, EM, GC, GW	V. PV. SC. SM
Public Safety Technology RS Teaching, Healing Meditation & Stress Manage.	
Victimology MC Therapeutic Massage	CGPC
Fire Science Yoga Instruction	SC
Basic Firefighter MC, PV Social Sciences	
Driver Operator MC Chemical Dependency Level I	RS
Emergency Management GC, GW, MC, PV, SM Chemical Dependency Level II	RS
Fire Academy GC, SC Chemical Dependency	RS
Fire Officer I MC Clinical Research Coordinating	GW
Fire Science GC, PC, PV,RS Interpreter Preparation	PC
Fire Science Technology GC, MC, SC, PV Professional Addictions Counseling	RS
Recruit Firefighters CC Deaf Studies	PC
Hospitality Social Services	
Advanced Professional Culinary Arts SC Assisted Living: Directed Care Services	PC
Airline Operations RS Assisted Living: Management	PC
Airline Operations: Ground Operations RS Assisted Living: Personal Care Services for	
Airline Operations: Initial Flight Attendant RS Certified Nursing Assistants	PC
Airline Operations: Passenger Services RS Assisted Living: Personal Care Services	PC
Airline Operations: Reservations RS Assisted Living: Supervisory Care Services	PC
Airline Operations: Vacations RS Fiduciary Practices	PC
Culinary Arts SC Gerontology	PC
(See Food & Nutrition section for additional programs Gerontology: Aging Services Management	PC
and related areas) Gerontology: Eldercare	PC
Hospitality and Tourism/Golf Management SC Gerontology: Foundations	PC
Hospitality and Tourism/Hotel Management SC Gerontology: Generallist	PC
Hospitality and Tourism/Restaurant Management SC Gerontology: Program Development	PC
Hospitality/Hotel Management EM Human Services	CC C
Library Media Technology Social Service Aide	PC
Library Information Technician MC Social Service Aide: Basic	PC
Library and Information Systems: Advanced MC Social Service Aide: Intermediate	PC
Library and Information Technician: Basic MC TECHNOLOGYAND TRADE INDUSTRIAL	
Mortuary Science Air Conditioning and Refrigeration	
Mortuary Science MC Air Conditioning/Refrigeration/Facilities	GW
Music Apprenticeship Related Instruction	
Audio Production Technology GC, MC, PC, PV, SC Bricklaying	GW
Dance Technology SC Carpentry Music Puriness CC CC CW MC PC PV SC	GW
Music Business CG, GC, GW, MC, PC, PV, SC Construction Management	GW, PC
Parks, Recreation, Leisure and Fitness Construction Trades: Carpentry Studies Construction Trades: Millwright	GW
Construction Traces, with wight	GW
Construction Trades, I anitting	GW
Recreational Resources and FacilitiesManagement: Equipment Maintenance and Repair Construction Trades: Sheet Metal Electricity	GW
The state of the s	GW
TI de la	GW
Horticulture PC Ironworking	GW

158			
Millwright	GW	Architectural Drafting	PC
Painting	GW	Architectural Technology	SC
Pipefitter-Refrigeration	GW	Architecture	MC
Plumbing	GW	Basic CAD	Œ
Power Plant Technology	GW, EM, GC	CAD Application	α
Roofing	GW	CAD-Based Design Documentation	Œ
Sheet Metal	GW	Civil CAD Technology	Œ
Steamfitting	GW	Computer-Aided Drafting	MC, PC
Aviation and Aeronautics	-	Computer Aided Design & Drafting CADD Level I	MC
Aircraft Construction Technology	œ	Commericial Drafting CADD Level II Construction	MC MC
Aircraft Maintenance Technology (Part 147)	Œ	Construction Construction Drafting I	MC MC
Aircraft Maintenance Technology	œ œ	Construction Drafting II	MC
Airframe Maintenance (Part 147) Airway Science Technology, Flight Emphasis	Œ	Construction Drafting III	MC
Aviation Electronics Maintenance Technology		Construction Drafting CADD Level III	MC
Avionics Technology	Œ	Electro/Mechanical Drafting	MC
Composite Technology	Œ	Manufacturing Design Technology	Œ
Flight Technology	Œ	Manufacturing Productivity: Conventional Machine	s Level I
Powerplant Maintenance (Part 147)	Œ	·	GW
Sheet Metal Structures Technology	Œ	Manufacturing Productivity: Conventional Machine	s Level II
Automotive Technology			GW
Air Conditioning and Electrical Accessories	GW	Manufacturing Productivity: Process Improvement	GW
Air Conditioning	MC	Manufacturing Productivity: Team Leadership	GW
Automotive Chassis	\propto	Manufacturing Productivity: Engineering Graphics	GW
Automotive Drive Trains	GW	Manufacturing Productivity:	CIV
Automotive Electrical Systems	MC	CNC CAD/CAM Programming	GW
Automotive Engine Performance Diagnosis & A	_	Manufacturing Productivity: CNC operation	GW GW
A Association Designation Technology	CC MG	Manufacturing Productivity: Quality Assurance Journalism	MC
Automotive Performance Technology Automotive Suspension, Steering and Brakes	MC GW	Journalism CG, GC, PC, PV,	
Automotive Technology	GC,GW	Graphic Design	SC, SM
Brakes, Alignment, Suspension and Steering	M C	Mechanical Drafting	MC
Caterpillar Technician Training	MC	Micro Circuit Mask Design	MC
Engine Performance and Diagnosis	GW, MC	Microcomputer Servicing	Œ
Transmissions and Power Trains	MC	Residential Drafting CADD Level II	MC
Building and Construction		Surveying and Civil Drafting CADD Level II	MC
Building Inspection	MC	Electronics/Electrical Technology	
Building Safety & Planning Technology	SC	Cable Telecommunications	SM
Building Safety and Construction Technology	PC	Computer and Networking Technology	CC C
Building Planning & Safety Technology	SC	Electric Utility Technology	Œ
Building Safety Technology	SC	Electrical Technology	GW
Carpentry	GW	Electromechanical Automation Technology	MC
Civil Engineering Technology	PC	Electronics Engineering Technology Electronics Manufacturing Technology	MC CC
Home Improvement Retail Operations: Flooring		Electronics Manufacturing Technology Electronics Technology	MC
Home Improvement Retail Operations: Kitchen Home Improvement Retail Operations: Millworld Operations: Millworl			, GW
Planning and Development Technology	SC SC	Local Area Networks Servicing	CC CC
Plan Review	MC	Telecommunications Technology: General	SM
Pre-Contractor Licensing	MC	Telecommunications Technology: Networking	SM
Commercial Art/Advertising Art	1110	Environmental Technology	
Computer Graphic Design	GC,PC	Biotechnology	MC
(See Media Technology section for additional		Biotechnology and Molecular Biosciences	Œ
related areas)	1 0	Environmental Health and Safety Technology	PV
Drafting Technology		Hazardous Materials Response	PC
CAD Technology	\propto	Hydrologic Studies	GW
Architectural CADD Level III	MC	Occupational Safety and Health Technology	GW
Architectural Detailing CADD Level III	MC	Safety, Health and Environmental Studies	PV



Environmental Technology Continues		Administrative Assistant
Wastewater Treatment	GW	Administrative Assistant
Water Distribution and Collection	GW	Administrative Assistant w/Prior Skills
Water, Wastewater & Industrial Treatment		Administrative Clerk
Technology	GW	Introductory Administrative Skills
Water Purification Technology	GW	Banking/Retail
Water Technologies	GW	Banking Operations Specialist
Water Treatment	GW	Banking Operations Clerk
Engineering		Bank Teller
Civil Engineering Technology	PC	Cashier
Surveying Technology	PC	Computer Aided Drafting
Manufacturing		Drafting with AutoCAD Level 3 Advanced
Aerospace Manufacturing Technology	GW	Drafting with AutoCAD Level 2 Intermediate
Automated Manufacturing Systems	MC	Drafting with AutoCAD Level 1 Beginning
Manufacturing CNC	MC	Drafting with AutoCAD Introduction
Manufacturing Engineering Technology	MC	Computer Literacy with Microsoft Office Basics
Manufacturing Machining	MC	Mechanical Drafting using AutoCAD
Manufacturing Management	MC	Architectural Drafting using AutoCAD
Manufacturing Technology	MC	Civil Drafting using AutoCAD
Manufacturing Welding	MC	Customer Service
(See Welding Technology section for additional		Customer Service Specialist
and related areas)	i programs	Customer Service Representative
Machinist		Call Center Operator
Machinist, Tool and Die	MC	Graphic Communications
Machinist, Tool and Die Level I	MC	Digital Graphic Designer
Machinist, Tool and Die Level II	MC	Digital Pre-Press Technician
Tractor-Trailer Driving	CC CC	Desktop Publisher
Welding Technology	a.	Information Processor
Welding Welding	MC	Information Processor Specialist
		Data Entry Operator
(See Manufacturing section for additional ing related areas)	tormation and	Data Input Clerk
Welding	PC	Repair/Networking
Weiding	rc	PC/Network Technician
		PC Technician
MARICOPA SKILL CENTE	R	Residential Structured Cable Installer
AREAS/PROGRAMS/CERTIFIC	CATES:	Specialized/Individual Courses
The Maricopa Skill Center (MSC), a division	n of GateWay	Adobe Illustrator
Community College, offers entry-level courses		Adobe In-Design
for hands-on job training at 1245 E. Buckeye Road		Adobe PageMaker
more than 150 non-credit Maricopa Skill Center		Adobe Photoshop
open-entry /open-exit, and self-paced (with the		Business & Computer Technology Special Projects
nursing):	F	
		Computer and Software Skills
Auto Body		Computer Literacy Data Entry Upgrade
Auto Body Basic Refreshing and Metal Repair		, 10
Auto Body Metal Repair		Internet Explorer
Auto Body Basic Refinishing		Keyboarding Skills
Auto Body Repair Helper		Macromedia Studio MX
Auto Body Special Projectss		Microsoft Access - Basic Level
Industrial Spray Painter		Microsoft Access – Basic through Expert
		Microsoft Access – Basic through Intermediate

Accounts Receivable/Payable Clerk
Accounts Receivable Clerk
Accounting Clerk
Introductory Accounting Skills

Computer Technology Programs

Accounting/Payroll Associate

Accounting/Payroll Clerk

Accounting

Microsoft Office – Basic Level

Microsoft FrontPage

Microsoft Excel – Basic Level

 $Microsoft\,Excel-Basic\,through\,Expert$

Microsoft Office – Basic through Expert Level Microsoft Office – Basic through Intermediate Level

Microsoft Access – Basic through Intermediate

Microsoft Excel – Basic through Intermediate

160



Microsoft Outlook

Microsoft PowerPoint - Basic Level

Microsoft PowerPoint - Basic through Expert

Microsoft Publisher

Microsoft Word - Basic Level

Microsoft Word – Basic through Expert

Microsoft Word - Basic through Intermediate

Peachtree Accounting

Quark Xpress

Ten-Key Skills

Windows

Travel

Travel & Tourism Specialist

Travel & Tourism Coordinator

Travel & Tourism Representative

SABRE/WorldSpan

Facilities Maintenance

Facilities Maintenance with Introduction to HVAC

Facilities Maintenance Worker II

Maintenance Electrician Worker with Introduction to

HVAC

Facilities Maintenance Worker I

Maintenance Electrician Worker

Maintenance Carpentry Worker

Maintenance Plumbing Worker

Facilities Maintenance Overview/City of Phoenix

Facilities Maintenance Special Projects

Health Care Services

Health Core Curriculum

Medical Administrative Assistant

Medical Administrative Assistant

Medical Transcriber

Medical Biller/Coder

Medical Assistant

Medical Assistant/Front & Back Office

Medical Assistant Back Office

Medical Assistant Front Office

Medical Insurance Billing and Coding

Medical Assistant Special Projects

Nursing

Nursing Assistant

Practical Nursing

Introduction to Culinary Arts

Cook's Apprentice

Kitchen Helper

Baker's Helper

Cook's Helper

Pantry Goods (Salad) Maker

Machine Trades

Automated Manufacturing Program

CNC Turning and Machining Center Operator with

FANUC Control

CNC Turning and Machining Center Operator

Manual Machine Operator

CNC Machining Center Operator

CNC Turning Center Operator

Manual Milling Machine Operator

Manual Lathe Operator

Drill Press Operator

Saw Operator

Machine Trades Special Projects

Upgrade to CNC

Meat Cutting

Apprentice Meat Cutter

Self-Service Meat Wrapper

Meat Department Helper

Meat and Deli Counter Person

Portion Control Cutter

Meat Room Cleanup

Meat Cutting Special Projects

Printing Trades

Advanced Press Operator

Offset Press Operator

Bindery/Finisher

Printing Trades Special Projects

Welding

Combination Welder (Arc, MIG, FLUX Core)

Combination Welder – Any two-Arc, MIG, FLUX

Core, TIG

Combination Welder with Arc, MIG, FLUX Core

w/TIG

Combination Welder - Arc, MIG, Flux Core with

Introduction to Pipe Welding

Arc Welder

MIG Welder

Flux Core Welder

TIG Welder/TIG Fingertip Welder

Welder Fitter-Helper

Welding Special Projects



SOUTHWEST SKILL CENTER AT EMCC CERTIFICATES

The SouthWest 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.

Our Programs are listed below and reference any certificate issued by that program:

Business Technology Program (Certificate Programs)

Office Assistant
Office Assistance w/Microsoft Office Suite
General Office Secretary
Administrative Secretary

Medical Assistant Program (Certificate Programs)

Medical Assistant Front/Back Office Medical Assistant Front Office Medical Assistant Back Office Phlebotomy (beginning 07/01/06)

Nursing Programs (Certificate Programs)

Nurse Assistant Program Practical Nurse Program



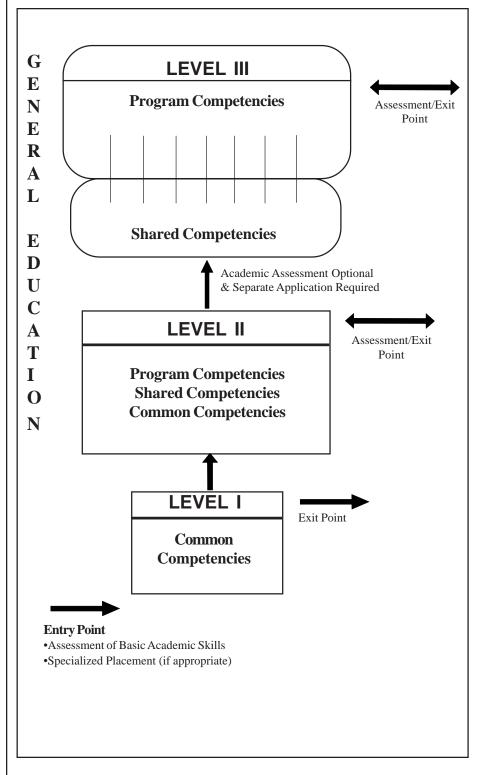
THE MCCD HEALTH CARE INTEGRATED EDUCATIONAL SYSTEM (HCIES)

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. For further information, http://healthcare.maricopa.edu is a comprehensive information source.

Note:

- 1. Students are reponsible for completing General Education coursework required for their particular Health Care Pathyway.
- 2. All students must successfully demonstrate required reading, writing, and mathematics competencies.

 Academic remediation is available.
- 3. It may be possible for some sutdents to meet Health Care Competency requirements for Level I and Level II common competencies through assessment of prior experience and/or education.
- 4. 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 (SWCC/EMCC) offer health care courses. Not all courses are offered at all sites. Please contact the specific college for more informatin regarding the availability of courses and course schedule information.

LEVEL I - Common Competencies - 2.0 credits

ALL Health	Care Students must satisfactorily achiev	ve the
Level I Com	mon Competencies found in the followin	g course
HCC130AA	Health Care Today	0.5
HCC130AB	Workplace Behavior in	
	Healthcare	0.5
HCC130AC	Personal Wellness and Safety	0.5
HCC130AD	Communication and Teamwork in	
	Health Care Organizations	0.5

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 0.5
HCC145AA	Medical Terminology for Health
	Care Workers I 1.0
HCC145AB	Medical Terminology for Health
	Care Workers II 1.0
HCC145AC	Medical Terminology for Health
	Care Workers III 1.0

LEVEL II - Shared and Program Competencies Credits Vary

Required of only certain health occupations program pathways. Refer to specific program pathway curriculum or check with a program advisor. Shared Competencies are shared by several health program pathways. Program Competencies are specific to individual health occupations program pathways.

LEVEL III - Shared and Program Competencies* Credits Vary

Share 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 Helath 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 Adovcate for Diabetes (MCC)

Dental Assisting (PC, RSC)

Dental Office Management (PC)

Diagnostic Medical Ultrasound (GWCC)

Direct Care Practice (MCC)

Health Information Technology (PC)

Health Unit Coordinating (GWCC)

Histology Technician (PC)

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, GWCC, MCC, MSC, PC, PVCC, SCC,

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)

Histology Technician (PC)

Medical Assisting (MSC, PC, SWSC/EMCC)

Medical Radiography (GWCC)

Nuclear Medicine Technology (GWCC)

Nursing (CGCC, EMCC, GCC, GWCC, MCC, PC, RSC, SCC)

Physical Therapist Assisting (GWCC)

Pratical Nursing (GCC, GWCC, MCC, MSC, PC, PVCC, RSC,

SCC, SWSC/EMCC)

Respiratory Care (GWCC)

Surgical Technology (GWCC)

Therapeutic Massage (CGCC, PC

^{**}subject to change



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.

Use of Confidential Information

Students enrolled in program pathways of HCIES will have learning experience in a health care setting where they will begin have access to confidential information. Prior to beginning any clinical studies, the students will be asked to sign an agreement to adhere to the requirements of those clinical sites and applicable law, including the Health Insurance Portability and Accountability Act of 1996 (HIPAA).

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.

Requirement of Background Check

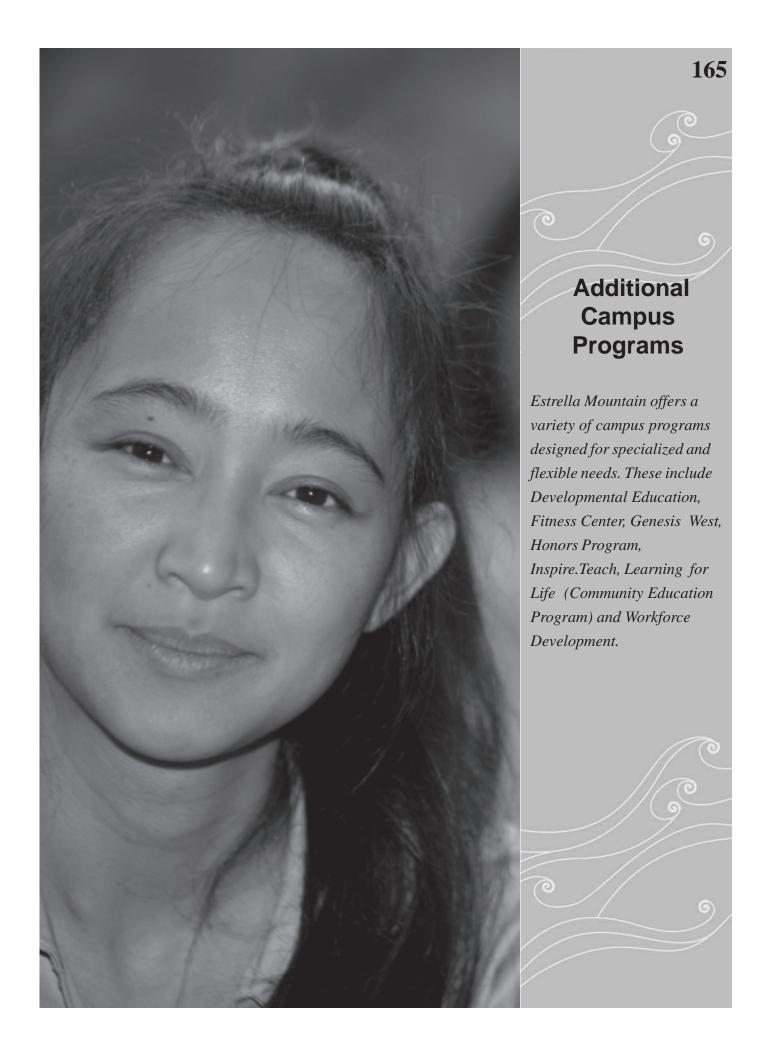
Students enrolled in most of the HCIES pathways will be in a clinical learning experiences, working with children, elderly persons, and other vulnerable populations. Arizona State law and healthcare agency policies require evidence of clear background checks prior to entering such learning experiences. Students seeking admission to some health programs will be required to provide a current Fingerprint Clearance Card at the time of application to or enrollment in clinical courses, according to program guidelines. The Fingerprint Clearance Card must remain in effect for the durations of time of program enrollment. It is advised that students carry proof of clearance at all times during any agency learning experience.

Note: Even though the Fingerprint Clearance Card is valid for 6 years, certain State licensing boards may require a new background check or clearance card upon request for State licensure or certification.

Waiver of Licensure/Certificate Guarantee

Many of the HCIES programs prepare graduates for application for State or National certificates or licenses. In some professions, such licensure and certification is required prior to employment or practice in the profession. Graduation from HCIES program does not guarantee the receipt of a license or certificate to practice in the field of study.









DEVELOPMENTAL EDUCATION PROGRAM

Developmental Education is a program that enhances student skills in English, English as a Second Language, Mathematics and Reading. Strong emphasis is placed on instruction with individual support, small classes, caring faculty and creative learning experiences. Instruction is enriched through technology, interaction with other learners, and opportunities to conduct volunteer work in the community. Additional instructional support is provided by the Learning Enhancement and Writing Support Center, Information Resources and the Nasa Center . (See page 20-21 for more information.)

Students are advised to participate in the Developmental Education program based on assessment scores and advisor referral. Students enrolled in one or more developmental courses are considered participants in the developmental program.

Developmental Education courses build confidence and contribute to student academic success. Developmental Education courses are designed to maximize a student's ability to pursue additional education and training. In addition, Developmental Education courses also offer students the opportunity to build an educational foundation for transfer programs, degree programs and training/career programs.

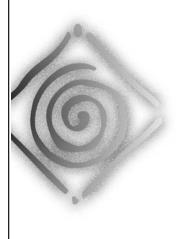
Credit Classes

A variety of credit classes are offered to students who wish to improve their literacy and communication skills including English as a Second Language (ESL), English, Mathematics, and Reading.

English as a Second Language

English as a Second Language (ESL) increases a student's ability to perform basic communication skills in English. Students learn to read and write basic English. Vocabulary and learning strategies are also emphasized. Students use software and computers to review grammar, write sentences and paragraphs, and read short selections. Note: *Some courses are taught in hybrid format.

ESL Classes offered in the Developmental Education Program include:



+ESL001BA	Basic ESL I: Personal and Health Safety	2
+ESL001BB	Basic ESL I: Services and Employment	2
+ESL010	English as a Second Language I: Grammar	3
+ESL011	ESL I: Listening and Speaking	3
+ESL012	ESL I: Writing with Oral Practice	3
*+ESL013	Vocabulary for ESL I	1
*+ESL014	Idiomatic English for ESL I	1
+ESL020	English as a Second Language II: Grammar	3
+ESL021	ESL II: Listening and Speaking	3
+ESL022	ESL II: Writing with Oral Practice	3
*+ESL030	English as a Second Language III: Grammar	3
+ESL031	ESL III: Listening and Speaking	3
+ESL032	ESL III: Writing with Oral Practice	3
+ESL040	English as a Second Language IV: Grammar	3
*+ESL041	ESL IV: Listening and Speaking	3
+ESL042	ESL IV: Writing with Oral Practice	3
+ESL043	Basic Vocabulary for ESL IV	1



+ESL044	Vocabulary for ESL IV	1
+ESL050	Review Grammar for ESL	3
+ESL051	Pronunciation Improvement for ESL Speakers	3
+ESL071	Advanced Pronunciation and Oral Reading for ESL	3
+RDG008	Phonics	3
+RDG010	Reading English as a Second Language I	3
*+RDG031	Advanced vocabulary ESL Speakers	
	(non-native speakers)	3
+RDG020	Reading English as a Second Language II	3
+RDG030	Reading English as a Second Language III	3
+RDG040	Reading English as a Second Language IV	3

Note: Course descriptions are listed on pages 219. Not all courses are offered every semester.

- + indicates that a course has prerequisites or corequisites.
- * indicates that the course is taught in hybrid format.

English

Developmental English courses are designed for recent high school graduates, GED graduates or any re-entry student who needs to fortify his/her skills before taking other college English classes. Students have opportunities for group interaction and engage in writing projects using the computer/software with support from Learning Enhancement and Information Resources.

English Courses taught in the Developmental Education Program include:

+ENG061	Basic Writing Skills	3
+ENG071	Fundamentals of Writing	3

Note: Course descriptions are listed on page 193.

+ indicates that a course has prerequisites or corequisites.

Reading

Developmental reading courses are designed to meet the needs of recent high school graduates, GED graduates, the returning student or college students who wish to improve their reading skills. Reading classes emphasize learning strategies for life skills reading and for understanding college textbooks. Learning vocabulary, reading for enjoyment, volunteering in the community, and using technology are major class activities.

Reading Classes in the Developmental Education Program include:

+RDG071	Basic Reading	3
+RDG081	Reading Improvement	3
+RDG091	College Reading Skills I	3

Note: Course descriptions are listed on page 219.

Non-Credit Classes

Estrella Mountain provides non-credit programs and services for students who want to improve their literacy and communication skills. Through a Literacy Partnership with Rio Salado College, Estrella Mountain offers non-credit classes in English for Speakers of Other Languages (ESOL) and General Educational Development (GED) at no cost to students. Classes are offered at Buckeye High School, and the Southwest Skill Center.

English for Speakers of Other Languages (ESOL)

ESOL classes are available in a multi-level format and are designed for adult speakers of languages other than English who wish to learn English in a warm and caring setting. Emphasis is on language survival skills for newcomers to the United States or the second language speaker who needs help with basic conversational skills. The course teaches oral and written communication, vocabulary, spelling and reading comprehension as needed to deal with real-life situations.

⁺ indicates that a course has prerequisites and/or corequisites.



These are self-paced classes. Students may start the classes anytime during the year beginning in the fall. Students should register in the classroom where the class is held (see Schedule of Classes). Classes are taught in English using books, handouts, manipulatives and computers.

General Educational Development (GED)

GED test preparation classes are available for persons who have not yet earned a GED or high school diploma. GED instruction is available in a traditional classroom setting. Subjects taught include mathematics, reading from literature and the arts, writing, social studies, and science. After an initial assessment has been completed to determine whether the student has the basic skills necessary to successfully complete the GED program, an individual plan is developed. Continuous evaluation is provided to ensure that students receive the level of instruction that is appropriate to their individual abilities and goals, and to assist them in passing the national GED examination.

For additional information call the SouthWest Skill Center at (623) 535-2764 or to schedule a GED test call (623) 935-8860.

Students who do not have a high school diploma, and are eighteen years of age are eligible to take this class. GED Testing is also available for students in the Assessment Center in Komatke Hall.

Students may enroll beginning in the fall for classes and should register for the class in the classroom where the class is being taught (see Schedule of Classes). All books, materials and predictor tests are provided at no cost to the student.



Estrella Mountain offers credit courses in physical education including PED115, the Lifetime Fitness course (2 credits). The Fitness Center offers students, employees, and community members the finest exercise program in the West Valley. The latest fitness equipment, including a full line of free weights, Cybex Circuit Equipment, Stairmaster Climbers, Upright and Recumbent Bikes, Gravitron, Schwinn Airdynes, Elliptical Trainers, Crossrobic Trainer, Indoor Rowers and full array of treadmills.

Professional, caring staff provide participants with individual instruction and supervision in all aspects of a personal exercise program, including warm-up, flexibility, strength and cardiovascular training and cool down. The Fitness Center offers easily accessible exercise education so participants are ensured the support that empowers efficient, effective, safe and enjoyable exercise. In addition, Fitness Center participants receive information, encouragement, and support to develop and maintain healthy lifestyle behaviors.

Flexible hours allow participants use of the center at their convenience. Special programs designed specifically for business, industry, families, and seniors are available. In addition, a comprehensive aerobics program, which features step, slide, body sculpting, high and low impact exercises, yoga and pilates gives participants the benefits of additional exercise options. A variety of other wellness recreation and activity classes are also available.







Genesis West offers students an alternative to traditional high school. Genesis West is a program that allows students to obtain a high school diploma while also earning college credit. The Genesis West program is made possible through a partnership with Agua Fria, Dysart and Tolleson High School Districts and Estrella Mountain Community College. For more information, call (623) 935-8900

Students are fully integrated into the college environment therefore must possess the maturity and the independence to meet the challenge of being a high school student on a college campus. The criteria is as follows:

- Be between 16 and 21 years of age
- Possess a minimum ability level at 8th grade or above
- Obtain a high school counselor referral
- Provide a written application and complete a formal interview
- Obtain two written recommendations
- Attend all classes and Genesis West activities
- Maintain good academic standing
- Be willing to contribute positively to the community



Program Description

The Honors Program is designed to enhance the intellectual experience of students through enrollment in Honors courses, the Honors Forum, and increased contact with other Honors students at Estrella Mountain and within the Maricopa District. Participation in the program also presents students with growth potential in the areas of leadership through attendance at local, regional and national conferences. Cultural enrichment activities are also stressed with frequent attendance at theater, symphony, museum, and lecture events.

Honors Program Graduation Requirements

Honors students who graduate with at least twelve (12) credits in honors courses and who maintain a cumulative 3.25 GPA or higher, will be designated as Honors Program graduates. Honors students who graduate with at least fifteen (15) credits in honors courses, (including 3 credits from HUM190), and who have a cumulative 3.5 GPA or higher, at graduation, will be designated as Honors Program graduates with Distinction.

Honors Program Eligibility

Presidents' Scholarships are available for new students who have recently graduated from an accredited Maricopa County high school. To be eligible, students must verify that they rank in the top 15% of their graduating class or have been placed in ENG101 Honors, into Intermediate Algebra or higher, and are exempt from CRE101 (Critical Reading) on the ASSET placement test. They must begin their college studies in the academic year following high school graduation. Fee Waivers are available for continuing and transfer students who have accumulated a minimum of 12 credits in courses numbered 100-level or above and who have a cumulative grade point average of 3.25 or better. Applicants are required to submit two letters of recommendation from Estrella Mountain faculty addressed to the Honors Program Coordinator prior to the start of classes. Partial tuition fee waivers (based on the number of credits for which the applicant is enrolled and completes) will be granted to those who are accepted into the program. To retain fee waiver eligibility, students must complete at least one honors course each semester and maintain a cumulative grade point average of 3.25 or higher. Fee waiver students are also eligible for additional Honors Program scholarships once they are enrolled in the Program.





Inspire.teach was created by Estrella Mountain Community College in partnership with West Valley high school districts and ASU West to attract future education majors. The program's structure insures a smooth transition from high school to the community college; and from the community college to the university, increasing likelihood for success.

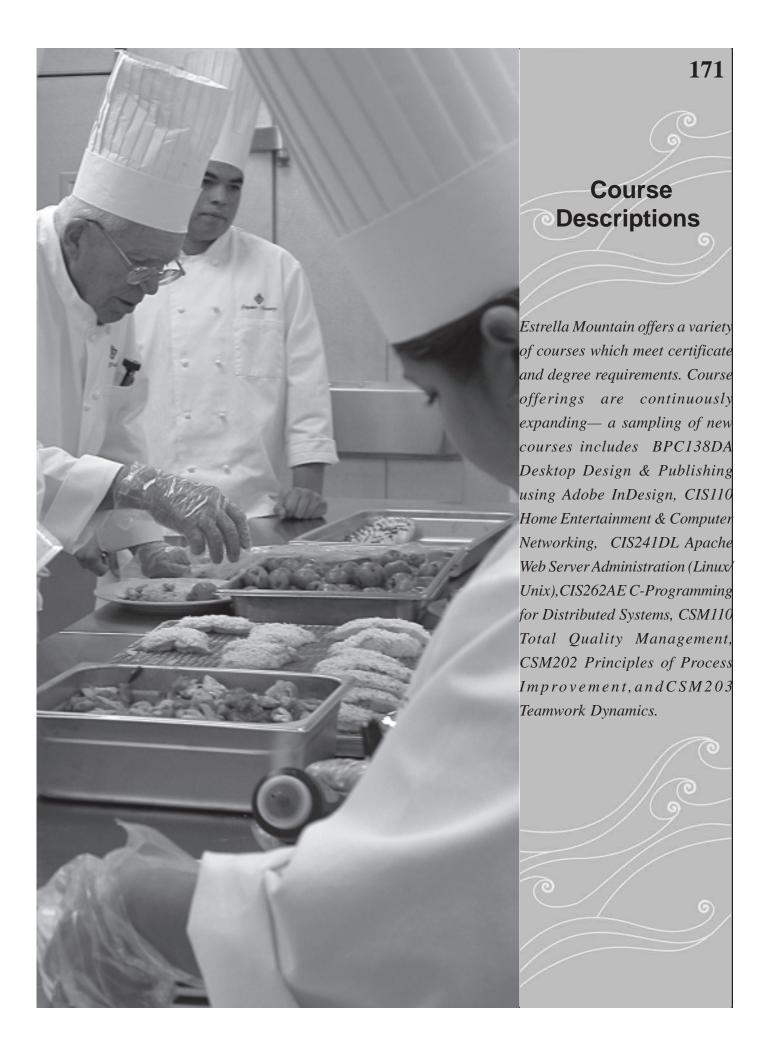
Inspire teach is a program that supports and encourages the choice of teaching as a profession. It reflects a commitment among secondary, community college and unviversity partners to insire students from underrepresented groups to explore, pursue and excel in teaching careers. For more information call (623) 935-8479.



Learning For Life is the community education program at Estrella Mountain Community College. We provide flexible and convenient general interest, non-credit courses designed to upgrade skills for personal and professional development. Courses are offered in the following areas of interest; Arts and Crafts, Business and Occupations, Computers, Health and Fitness, Home in and Out, Personal Enrichment, Next Chapter, and Kid's College. For specific information concerning any of our programs, please contact Registration at (623) 935-8888 or our office at (623) 935-8426.



In addition to the college's numerous programs and courses, Estrella Mountain designs, develops and delivers customized training solutions to help organizations reach their business objectives. We work closely with clients, assessing their needs and goals, to build training solutions that provide convenience and enhance business performance. Quality faculty, targeted curriculum and flexible locations are hallmarks of the service. For more information, call 623-935-8492.





HRM Hotel Restaurant Management

PREFIX LISTING

PREFIX LISTING								
	ACC	Accounting		Humanities				
	AES	Aerospace Studies	ITS	Information Technology Security				
	AIS	American Indian Studies	JRN	Journalism				
	AJS	Administration of Justice	LBS	Library Skills				
	ARH	Art Humanities	MAT	Mathematics				
	ART	Art	MCO	Mass Communications				
	ASB	Anthropology (Soc/Behv Sciences)	MET	Manufacturing Technology				
	ASM	Anthropology	MGT	Management				
	AST	Astronomy	MHL	Music: History/Literature				
	BIO	Biology	MKT	Marketing				
	BLT	Building Safety & Construction Technology	MST	Microsoft Technology				
	BPC	Business/Personal Computers	MUP	Music: Performance				
	CAD	Computer Aided Drafting	NUR	Nursing				
	CFS	Child/Family Studies	OAS	Office Automation Systems				
	CHM	Chemistry	OSH	Occupational Safety & Health				
	CIS	Computer Information Systems	PAD	Public Administration				
	CNT	Cisco Networking Technology	PED	Physical Education				
	COM	Communication	PHI	Philosophy				
	CPD	Counseling and Personal Development	PHS	Physical Science				
	CRE	Critical Reading	PHY	Physics				
	CRW	Creative Writing	POS	Political Science				
	CSM	Total Quality Management	PPT	Power Plant Technology				
	DAN	Dance	PSY	Psychology				
	DAH	Dance Humanities	RDG	Reading Education				
	ECH	Early Childhood Education	REL	Religious Studies				
	ECN	Economics	SBS	Small Business Management				
	EDU	Education	SBU	Society and Business				
	ELC	Electricity	SLG	Sign Language				
	ELT	Electronics Technology	SLP	Speech Language Pathology				
	ENG	English	SOC	Sociology				
	ENH	English Humanities	SPA	Spanish				
	EPD	Education Professional Development	STO	Storytelling				
	ESL	English as a Second Language	SWU	Social Work				
	FAC	Facilities Management	THE	Theatre				
	FON	Food and Nutrition	THP	Theatre Performance/				
	FRE	French		Production				
	FSC	Fire Science Technology	TQM	Total Quality Management				
	GBS	General Business	TRS	Translation & Interpretation				
	GLG	Geology	WLD	Welding Technology				
	GPH	Physical Geography	WST	Women Studies				
	GTC	General Technology						
	HCC	Health Core Curriculum						
	HES	Health Science						
	HIS	History						
	HVA	Heating, Ventilating & Air Conditioning						
	HRM	Hotel Restaurant Management						



ACCOUNTING

ACC111

Accounting Principles I

3 Credits. 3 Periods. Fundamental theory of accounting principles and procedures. Prerequisites: None.

ACC112

Accounting Principles II

3 Credits. 3 Periods.

Continuation of the fundamental theory of accounting principles and procedures, including interpretation of general purpose financial statements. Prerequisites: ACC111 with a grade of "C" or better, or permission of department/division.

ACC230

Uses of Accounting Information I

3 Credits. 3 Periods.

Introduction to the uses of accounting information for internal and external purposes with emphasis on financial statement analysis. Prerequisites: Grade of "C" or better in ACC111 or ACC211, or a grade of "C" or better in (ENG101 and MAT151 and CRE101), or equivalent, or satisfactory score on District placement exam.

ACC240

Uses of Accounting Information II

3 Credits. 3 Periods.

Introduction to the uses of accounting information for internal and external purposes with emphasis on analysis for use by management. Prerequisites: ACC230.

ACC250

Introductory Accounting Lab

1 Credit. 3 Periods.

Procedural details of accounting for the accumulation of information and generation of reports for internal and external users. Prerequisites: None.

AEROSPACE STUDIES

AES101

The Air Force Today Part 1

LEC 2 Credits. 1 Period.

LAB 0 Credits. 1 Period.

Introduction to U.S. Air Force and AFROTC.

Topics include: the Air Force mission and organization, customs and courtesies, officer opportunities, officership and professionalism. Prerequisites: None.

AES103

The Air Force Today II

LEC 2 Credits. 1 Period. LAB 0 Credits. 1 Period. Introduction to U.S. Air Force and AFROTC. Topics include: the Air Force mission and organization, customs and courtesies, officer opportunities, officership, and professionalism. Prerequisites: AES101 or ASU Department of Aerospace Studies approval.

AES201

${\bf Evolution\ of\ USAFAir\ and\ Space}$

Power I

LEC 2 Credits. 1 Period.

LAB 0 Credits 1 Period.

Further preparation of AFROTC candidate.

Further preparation of AFROTC candidate. Topics include: Air Force heritage and leaders, communication skills, ethics, leadership, quality Air Force, and values. Prerequisites: AES103 or ASU Department of Aerospace Studies approval.

AES203

Evolution of USAF Air and Space Power II

LEC 2 Credits. 1 Period.

LAB 0 Credits 1 Period.

Topics include: the air Force mission and organization, customs and courtesies, officer opportunities, officership, and professionalism. Prerequisites: AES201 or ASU Department of Aerospace Studies approval.

ADMINISTRATION OF JUSTICE

AJS101

Introduction to Criminal Justice

3 Credits. 3 Periods.

An introduction to crime and society's responses to it. Examines the nature and causes of crime, the criminal law, constitutional safeguards, the organization and operation of the criminal justice system including the police, courts, jails, prisons, probation and parole departments, and community corrections agencies. Covers the history of the criminal justice system, terminology and career opportunities. Prerequisites: None.

AJS107

Patrol Procedures

3 Credits. 3 Periods.

Specialized areas of the patrol function, including responding to crowds, riots, bomb threats, intoxication, hazardous materials, fires, and domestic disputes. Partially fulfills Arizona POST requirements for proficiency skills academy attendance. Prerequisites: None.

AJS109

Substantive Criminal Law

3 Credits. 3 Periods.

Covers philosophy of legal sanctions and historical development from the common law to modern American criminal law, classifications of crimes, elements of and parties to crimes, general definition of crimes, common defenses utilized. Includes specific offenses and the essential elements of each offense. Required in AJS curriculum. Prerequisites: None.

AJS110

Law and Legal Review I

3 Credits. 3 Periods.

In-depth study of the Arizona laws governing arrest by peace officers, as well as, an intensive study of the Arizona substantive criminal law code (ARS Title 13). Focuses on specific sections of ARS Title 4 and ARS Title 8, as they apply to peace officers in Arizona. Partially fulfills the Arizona POST Board requirements for Proficiency Skills Academy attendance. Prerequisites: None.

AJS123

Ethics and the Administration of Justice

3 Credits. 3 Periods.

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.

AJS124

Correctional Institutions

3 Credits. 3 Periods.

An examination of correctional institutions with an emphasis on personnel and security measures, care and treatment programs and institutional planning. The criminal justice system and matters of custody and treatment. Inmate subcultures, and organized crime in correctional institutions and jails. Prerequisites: None.

AJS131

Police Management Techniques I

3 Credits. 3 Periods.

Police supervisory techniques for planning, organization, coordination, reporting, budgeting and handling related personnel problems. Prerequisites: None.



AJS132

Police Management Techniques II

3 Credits. 3 Periods.

Management of police personnel including selections procedures, disciplinary practices, public relations, elements of supervision, service ratings, recruiting and probation, and related personnel problems. Prerequisites: AJS131 or instructor's approval.

AJS133

Correctional Supervision I

3 Credits. 3 Periods.

Basic supervision of correctional employees. Personnel practices, employee discipline and motivation, trust/team building, and oneminute manager principles. Prerequisites: None.

AJS150

Defensive Tactics

1 Credit. 1 Period.

Skills in the protection against persons armed with dangerous and deadly weapons, demonstration and drill in a limited number of holds and come-alongs, and restraint of prisoners and the mentally ill. May be repeated twice for credit. Prerequisites: None.

AJS200

Current Issues in Criminal Justice

3 Credits. 3 Periods.

Examines current issues, techniques and trends in the Criminal Justice System. Prerequisites: None.

AJS201

Rules of Evidence

3 Credits. 3 Periods.

A practical insight into the rules of evidence to include how to recognize evidence: the general rules governing admissibility of evidence; the "hearsay" rule and its exceptions; the use of documentary evidence, written memoranda, photographs, and recordings; corpus delicti; opinion evidence, circumstantial evidence, evidential privileges. Required in AJS curriculum. Prerequisites: None.

AJS205

Criminal Justice Report Writing

3 Credits. 3 Periods.

Characteristics of reports and field notes, and the importance and uses of each. Form, style, and procedures for writing various reports, including elements of composition, required substance, proper and improper conclusions, and descriptions of persons and property. Prerequisites: None.

AJS210

Constitutional Law

3 Credits. 3 Periods.

An examination of the U.S. Constitution as it relates to the law enforcement function. Includes statutory law and judicial decisions governing the areas of arrest, search and seizure, interrogations and confessions, self-incrimination and other constitutional guarantees. Required in AJS curriculum. Prerequisites: None.

AJS211

Police Planning

3 Credits. 3 Periods.

An analysis of the process of planning, and a descriptive study of logical and systematic approaches to strategic, short-range, operational, organizational and tactical planning within a law enforcement organization. Prerequisites: None.

AJS212

Juvenile Justice Procedures

3 Credits. 3 Periods.

Examines the history and development of juvenile justice theories, procedures, and institutions. Prerequisites: None.

AJS215

Criminalistic: Physical Evidence

3 Credits. 3 Periods.

The scientific analysis and examination of physical evidence with emphasis on scientific investigation, recognition, collection, and preservation of evidence. Topics include fingerprints, shoe prints, tool marks, firearms identification, paint chips and arson. Prerequisites: None.

AJS220

Organized Crime

3 Credits. 3 Periods.

Examines the history, structure and activities of organized crime groups. Reviews theories explaining the existence of organized crime and enforcement strategies used to combat it. Prerequisites. None.

AJS225

Criminology

3 Credits. 3 Periods.

Study of deviance, society's role in defining behavior; theories of criminality and the economic, social, and psychological impact of crime; relationships between statistics and crime trends. Examines crime victimization and the various types of crimes and categories of offenders. Required in the AJS curriculum. Prerequisites: None.

AJS230

The Police Function

3 Credits. 3 Periods.

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.

AJS249

Community Policing

3 Credits. 3 Periods.

Examines the history, philosophy, implementation, administration, application, benefits and future of community policing. Prerequisites: None.

AJS260

Procedural Criminal Law

3 Credits. 3 Periods.

Concerned with the understanding of procedural criminal law. Examines the rationale underlying major court holdings, the procedural requirements that stem from these holdings, and their effect on the daily operations of the criminal justice system. Prerequisites: None.

AJS270

Community Relations

3 Credits. 3 Periods.

Examination, recognition and understanding of community problems; community action programs; methods of coping with human behavior, victimology, conflict and communication; ethnic and minority cultures and environments; the community and relationships with the criminal justice system. Prerequisites: None.

AJS275

Criminal Investigation I

3 Credits. 3 Periods.

Introduction to the theory of criminal investigation. Examines crime scene procedures, case preparation, interviewing, and basic investigative techniques. Prerequisites: None.

AMERICAN INDIAN STUDIES

AIS101

Survey of American Indian Issues

3 Credits. 3 Periods.

Introduction to critical issues related to Native Americans. Examines political, economic, and social issues. Focuses on contemporary issues and factors influencing American Indian communities. Prerequisites: None.

AIS140

American Indian History

3 Credits. 3 Periods.

Survey of American Indian history with emphasis on the last 200 years including developments in the 20th century. Focuses on selected groups such as the Cherokee, Iroquois Confederation, Navajo, Sioux and Indians of the Southwest in relation to cultural, economic, political and social continuity and changes.

Topics include development and influence of federal policies, past and present issues confronting Native Americans and how Native American individuals and communities maintain their identities as they confront social changes. Prerequisites: None. Cross-References: HIS140.

ANTHROPOLOGY

ASB102

Introduction to Cultural and Social Anthropology

3 Credits. 3 Periods.

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.

ASB223

Buried Cities and Lost Tribes: New World

3 Credits 3 Periods

Introduction to archaeology through discoveries and the researchers who made them. Emphasis on methods of archaeological fieldwork and what these discoveries reveal about humanity, including the nature of archaeological inquiry, the development of human social groups, the changing role of religion in evolving societies, the origins of agriculture, the origins of settled lifeways, the rise of cities and complex societies, political strife across different cultures and the forces which fragment societies. Examples drawn from North American, Central America, and South America. Prerequisites: None.

ASB251

Introduction to Museums

3 Credits. 3 Periods.

The changing nature of museum practice in acquiring and managing collections and disseminating information. Prerequisites: None.

ASM104

Bones, Stones, and Human Evolution

4 Credits. 5 Periods.

Study of human evolution and variation; including fossil hominids and their tools, primate anatomy and behavior, human genetics, and the environment and human biology. Prerequisites: None.

ART

ART100

Introduction to Computer Graphic Art

1 Credit. 2 Periods.

Conceptualization, visualization, and production of art using the computer. Prerequisites: None.

ART111

Drawing I

3 Credits. 6 Periods.

Fundamental principles of drawing. Emphasis on composition and facility in objective and expressive representation, using variety of drawing media. Prerequisites: None.

ART112

Two-Dimensional Design

3 Credits. 6 Periods.

Study of fundamental elements and principles of two-dimensional design. Prerequisites: None. Cross-References: ADA112

ART122

Drawing and Composition II

3 Credits. 6 Periods.

Emphasis on composition and exploration of drawing media. Prerequisites: ART111.

ART131

Photography I

3 Credits. 6 Periods.

Basic black and white photographic principles and techniques. Camera functions and controls. Darkroom experience in film processing and printmaking. Camera required. Prerequisites: None.

ART132

Photography II

3 Credits. 6 Periods.

Advanced camera and darkroom techniques. Aesthetic awareness with personal expression. Prerequisites: ART131 or permission of instructor.

ART151

Sculpture I

3 Credits. 6 Periods.

Exploration of sculptural form and expression in clay, plaster, stone, wood and metal. Prerequisites or Corequisites: ART115 or permission of instructor.

ART152

Sculpture II

3 Credits. 6 Periods.

Emphasis on control of sculptural media. Prerequisites: ART151.

ART161

Ceramics I

3 Credits. 6 Periods.

Introduction to ceramic materials and techniques of hand construction, decorating, glazing and throwing on potters' wheel. Prerequisites: None.

ART162

Ceramics II

3 Credits. 6 Periods.

Major emphasis on wheel throwing, glaze making and decorating techniques. Prerequisites: ART161.

ART167

Painting I

3 Credits. 6 Periods.

Exploration of technical and expressive possibilities of various painting media in easel painting. Prerequisites: ART111 and ART112 or permission of instructor.

ART168

Painting II

3 Credits. 6 Periods.

Continued refinement of painting skills and investigation of new possibilities in painting. Prerequisites: ART167 or permission of instructor.

ART173

Computer Art

3 Credits. 6 Periods.

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: ART100, or permission of instructor. Cross-References: ADA173



ART177

Computer-Photographic Imaging

3 Credits. 6 Periods.

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. Cross-

ART211

Drawing and Composition III

3 Credits. 6 Periods.

References: ADA177

Advanced development of drawing skill with emphasis on compositional theory. Prerequisites: ART122 or permission of instructor.

ART222

Drawing and Composition IV

3 Credits. 6 Periods.

Further study of drawing techniques with emphasis on individual problems and techniques. Prerequisites: ART211 or permission of instructor.

ART261

Ceramics III

3 Credits. 6 Periods.

Emphasis on wheel throwing skill and individual style development. Prerequisites: ART162.

ART262

Ceramics IV

3 Credits. 6 Periods.

Experimental work in clays and glazes. Prerequisites: ART261.

ART298AA

Special Projects

1 Credit. 1 Period. OOrganized 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 available for student use. Allows the best aspects of independent study and individualized learning to be combined to student maximize development. Prerequisites: Permission of Program Director or instructor.

ART298AC

Special Projects

Lab 3 Credits. 3 Periods. 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 available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: Permission of Program Director or instructor.

ART HUMANITIES

ARH101

Prehistoric through Gothic Art

3 Credits. 3 Periods

History of art from prehistoric through medieval period. Prerequisites: None.

ARH102

Renaissance through Contemporary Art

3 Credits. 3 Periods

History of art from around the world from the Renaissance through contemporary period. Prerequisites: None.

ARH109

History of American Art

3 Credits. 3 Periods.

Development and variety of American Art. Presentation of architecture, sculpture, painting and decorative objects. Prerequisites: None.

ARH115

History of Photography

3 Credits. 3 Periods.

Survey of history of photography from beginning to present. Emphasizes medium's impact upon society and other visual arts. Technical developments, aesthetic concerns, and individual photographers studied. Prerequisites: None.

ARH120AA

${\bf Understanding\,Art:\,Black\,Art}$

2 Credits. 2 Periods.

Overview of African and Afro-American art. Emphasis on the meaning of previous African art forms and the study of Black American artists. Visual aids, lectures, discussions, and simple art-making experiences designed for non-art majors. Prerequisites: None.

ARH145

History of American Indian Art

3 Credits. 3 Periods.

Survey of American Indian Art from precontact to present. Reviews the impact of these art forms on contemporary American society, other world societies and on the visual arts. Explores characteristics, cultural influences and concerns represented in various art forms past and present. Features field trips to galleries and collections. Prerequisites: None.

ARH201

Art of Asia

3 Credits. 3 Periods

Introduction to the origins and historic development of art in Asia, with emphasis on China, Japan, and India. Prerequisites: None.

ARH217

Mexican Art History

3 Credits. 3 Periods.

Art of Mexico and related cultures, from the prehistoric to the contemporary period. Prerequisites: None.

ASTRONOMY

AST111

Introduction to Astronomy

LEC 3 Credits. 3 Periods. 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.

AST113

Astronomy I Laboratory

LEC 1 Credit. 3 Periods. Astronomical observations and exercises to supplement AST111. Prerequisites or Corequisites: AST111.

BIOLOGY

BIO100

Biology Concepts

LEC 4 Credits. 3 Periods. LAB 0 Credits. 3 Periods.

A one-semester introductory course not 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 student's expense. Prerequisites: None.



BIO105

Environmental Biology

LEC 4 Credits. 3 Periods. LAB 0 Credits. 3 Periods. Fundamentals of ecology and their relevance to human impact on natural ecosystems. Field trips may be required at students' expense. Prerequisites: None.

BIO109

Natural History of the Southwest

LEC 4 Credits. 3 Periods. 0 Credits. LAB 3 Periods. Study of the common plants and animals of the Southwest including their distribution, adaptation, behavior, and ecology. 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. Prerequisites: None. Course Note: Field trips may be required.

BIO110

Laboratory for Natural History of the Southwest

1 Credit. 3 Periods. 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.

BIO156

LEC

Introductory Biology for Allied Health

4 Credits.

level chemistry recommended

3 Periods. 0 Credits. LAB 3 Periods. An introductory biology course for allied health majors with an emphasis on humans. Topics include fundamental concepts of cell biology, histology, microbiology, and genetics. Prerequisites: None. One year high school chemistry or one semester of college-

BIO160

Introduction to Human Anatomy and Physiology

LEC 4 Credits. 3 Periods. LAB 0 Credits. 3 Periods. 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.

BIO181

General Biology I (Majors)

LEC 4 Credits. 3 Periods. LAB 0 Credits. 3 Periods.

The study and principles of structure and function of organisms at the molecular and cellular levels. A detailed exploration of the chemistry of life, the cell, and genetics. Prerequisites: None. One year of high school or one semester of college-level biology and chemistry is strongly recommended.

BIO182

General Biology (Majors) II

4 Credits. LEC 3 Periods. LAB 0 Credits. 3 Periods. The study and principles of structure and function of living things at cellular, organismic, and higher levels of organization. A detailed exploration of the mechanisms of evolution, biological diversity, biology of organisms, and ecology. Prerequisites: A grade of C or better in BIO181. Course Note: Field trips may be required.

BIO201

Human Anatomy and Physiology I

LEC 4 Credits. 3 Periods. LAB 0 Credits. 3 Periods. 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 with a grade of "C" or better) or (one year high school biology course with a grade of "C" or better). (CHM130 or higher numbered CHM prefixed course) or (one year of high school chemistry) suggested but not required.

BIO202

Human Anatomy and Physiology II

3 Periods. LEC 4 Credits. LAB 0 Credits. 3 Periods. SContinuation 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: A grade of "C" or better in BIO201.

BIO205

Microbiology

LEC 4 Credits. 3 Periods. LAB 0 Credits. 3 Periods. Study of microorganisms and their relationship to health, ecology, and related fields. Prerequisites: (BIO156 or BIO181 with a grade of "C" or better) or (one year high school biology with a grade of "C" or better). (CHM130 or higher numbered

CHM prefixed course) or (one year of high school chemistry) suggested but not required.

BUILDING SAFETY & CONSTRUCTION **TECHNOLOGY**

BLT263

Building Codes

3 Credits 3 Periods.

Designed specifically to acquaint students with safety principles of building construction under the Uniform Building Code, including structural requirements for wood, masonry and concrete, fire resistance of building construction, fire resistant materials, and ratings and occupancy requirements. Prerequisites: None.

CHEMISTRY

CHM130

Fundamental Chemistry

3 Credits. 3 Periods.

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 Note: Course content designed to meet the needs of students in such areas as agriculture, home economics, nursing, and physical education among others.

CHM130LL

Fundamental Chemistry Laboratory

1 Credit. 3 Periods.

Laboratory experience in support of CHM130. Prerequisites or Corequisities: CHM130.

CHM150

General Chemistry I

4 Credits. 4 Periods.

A detailed study of the principles of chemistry. Completion of CHM151LL required to meet the Natural Science requirement. Prerequisites: (CHM130 and CHM130LL), or (one year of high school chemistry with a grade of "C" or better taken within the last five years), and completion of intermediate algebra or equivalent. Completion of CHM130 and CHM130LL within the last two years is recommended. Course Note: CHM150 is designed for science majors and students in pre-professional curricula. Students may receive credit for only one of the following: CHM150 or CHM151.



CHM151

General Chemistry I

3 Credits. 3 Periods.

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. Completion of CHM130 and CHM130LL within the last two years is recommended.

CHM151LL

General Chemistry I Lab

1 Credit. 3 Periods. Laboratory experience in support of CHM151. Prerequisites: CHM130LL or permission of instructor. Prerequisites or

Corequisites: CHM150 or CHM151.

CHM152

General Chemistry II

3 Credits. 3 Periods.

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. Completion of CHM151 and CHM151LL within the last two years recommended.

CHM152LL

General Chemistry II Lab

1 Credit. 3 Periods. Laboratory experience in support of CHM152. Prerequisites: CHM151LL or equivalent. Prerequisites or Corequisites:

CHM152.

CHM154

General Chemistry II with Qual

3 Credits. 3 Periods.

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. Completion of CHM151 and CHM151LL within the last two years recommended.

CHM154LL

General Chemistry II with Qualitative Laboratory

2 Credits. 6 Periods.

Laboratory experience in support of CHM154. Includes qualitative analysis. Prerequisites: CHM151LL or equivalent. Prerequisites or Corequisites: CHM154.

CHM235

General Organic Chemistry I

3 Credits. 3 Periods.

Rigorous introduction to chemistry of carboncontaining compounds. Reaction mechanisms and recent methods of synthesis emphasized. Prerequisites: CHM152 and CHM152LL, or CHM154 and CHM154LL. Completion of (CHM152 and CHM152LL) or (CHM154 and CHM154LL) with the last two years recommended.

CHM235LL

General Organic Chemistry I Laboratory

1 Credits. 4 Periods. Laboratory experience in support of CHM235. Prerequisites: CHM152LL, or CHM154LL, or equivalent. Prerequisites or Corequisites: CHM235.

CHM236

General Organic Chemistry IIA

3 Credits. 3 Periods.

Study of chemistry of carbon-containing compounds continued. Structural determination and additional reaction mechanisms and modern methods of synthesis emphasized. Prerequisites: CHM235 and CHM235LL. Completion of CHM235 and CHM235LL within the last two years recommended.

CHM236LL

General Organic Chemistry IIA Laboratory

1 Credits. 4 Periods.

Laboratory experience in support of CHM236. Prerequisites: CHM235LL or equivalent. Prerequisites or Corequisites: CHM236.

CHILD/FAMILY STUDIES

CFS176

Child Development

3 Credits. 3 Periods.

Study of the science of human development from conception through adolescence. Includes observation skills, parent and adult roles in the lives of children, and contemporary issues. Prerequisites: None. Cross-References: ECH176

CFS178

Survey of Early Childhood Education

3 Credits. 3 Periods.

Orientation to basic concepts of day care and nursery programs. History and philosophy of child care services including state regulations governing those services. Observation opportunities provided. Prerequisites: None.

CFS192

Child Care Center Staff Development

1 Credit. 1 Period.

Presents strategies to administrators and supervisors in child care centers for developing the personal and professional growth of child care staff. Prerequisites: None.

CFS269

Child Care Seminar

1 Credits. 1 Period.

Emphasizes the blend of job-related activities including career exploration, employment procedures, human relations, and on-the-job issues. May be repeated for a total of three (3) credit hours. Prerequisites: Departmental approval.

CFS284AB

Early Childhood Teaching Internship

3 Credits. 3 Periods.

Work experience in child care centers. 80 hours of designated work per credit. Maximum of 6 credits allowed. Prerequisites: CFS/ECH176 and permission of department. Corequisites: CFS/ECH269.

CFS285AA

Family-School Interaction: Preschool

1 Credit. 1 Period.

Interaction among parents, teachers and the preschool. Emphasis on methods used cooperatively by parents and preschool teachers to provide for education and developmental needs. Prerequisites: CFS176 or CFS278 or permission of instructor.

179



CISCO NETWORKING TECHNOLOGY

CNT120

Adobe Web Design

3 Credits. 4 Periods.

Development of knowledge and skills required to design web pages and their elements using a variety of Adobe applications including GoLive, Premiere, Photoshop, Illustrator and Live Motion. Design theory relevant to maximizing web readership including interactive and multimedia elements, speed and accessibility optimization, and intuitive user interfaces. Prerequisites: CIS105 or permission of instructor. CIS150 recommended.

CNT140

Cisco Networking Basics

4 Credits. 6 Periods.

Introduction to the computer networking field. Covers network terminology and protocols, local area networks (LAN), and wide area networks (WAN). Includes Open Systems Interconnection (OSI) models, cabling and cabling tools, routers, router programming, Ethernet, Internet Protocol (IP) addressing, and network standards. Preparation for the Cisco Certified Network Associate examination. Prerequisites: None.

CNT150

Cisco Networking Router

Technologies

4 Credits. 6 Periods.

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

Cisco Switching Basics and Intermediate Routing

3 Credits. 4 Periods.

Advanced Internet Protocol (IP) addressing techniques, Variable Length Subnet Masking (VLSM), Intermediate routing protocols, Routing Internet Protocol version 2 (RIPv2), Single-area Open Shortest Path First (OSPF), and Enhanced Interior Gateway Routing Protocol (EIGRP), Command Line Interface configuration of switches, Ethernet switching, Virtual Local Area Networks (VLANS), Spanning Tree Protocol (STP) and Virtual local-area Network Trunking Protocl (VTP). Preparation for Cisco Certified Network Associate certification examination. Prerequisites: CNT150 or permission of instructor.

CNT170

Cisco wide Area Networks (WAN) Technologies

3 Credits. 4 Periods.

Advanced Internet Protocol (IP) addressing techniques including Network Address Translation (NAT) Port Address Translation (PAT) and Dynamic Host Control Protocol (DHCP). Also covers Wide Area Network (WAN) technology and terminology, Point-to-Point Protocol (PPP), Integrated Services Digital Network (ISDN), Dial on Demand Routing (DDR), Frame Relay, and network management. Preparation for Cisco Certified Network Associate certification examination. Prerequisites: CNT160 or permission of instructor.

CNT182

Cisco Secure PIX Firewall Configuration

3 Credits. 4 Periods.

Applications of Cisco Networking technologies in designing and implementing security solutions to reduce risk of revenue loss and vulnerability. Hands-on experience and skills in security policy design and management, security technologies, products and solutions, secure firewall design, installation, configuration and maintenance, AAA (Authentication, Authorization, and Accounting) and VPN (Virtual Private Network) implementation using firewalls. Preparation for the CSPFA (Cisco Secure PIX Firewall Advanced) exam, which applies toward the CCSP (Cisco Certified Security Professional) and the Cisco Firewall Specialist certifications. Prerequisites: CNT170 or permission of instructor.

CNT185

Cisco Network Security

4 Credits. 5 Periods.

Applications of Cisco Networking technologies in designing and implementing security solutions to reduce risk of revenue loss and vulnerability. Hands-on experience and skills in security policy design and management, security technologies, products and solutions, firewall and secure router design, installation, configuration and maintenance, AAA (Authentication, Authorization, and Accounting) and VPN (Virtual Private Network) implementation using firewalls and routers. Preparation for the MCNS (Managing Cisco Network Security) and CSPFA (Cisco Secure PIX Firewall Advanced) exams toward certification as a Cisco Firewall Specialist. Exams also apply to CCSP (Cisco Certified Security Professional) certification. Prerequisites: CNT170, or permission of instructor.

CNT186

Fundamentals of Wireless LANs

4 Credits. 5 Periods.

Design, planning, implementation, operation, and troubleshooting of wireless networks. Overview of technologies, security, and design best practices with emphasis on hands-on skills in wireless LAN (local area network) setup and troubleshooting, 802.11a & 802.11b technologies, products and solutions, site surveys, resilient WLAN design, installation and configuration, WLAN Security - 802.1x, EAP (Extensible Authentication Protocol), LEAP (Light Extensible Authentication Protocol), WEP (Wired Equivalent Privacy), SSID (Service Set Identifier), and vendor interoperability strategies. Prepare students to earn Cisco Wireless LAN Support Specialist designation and to take the Certified Wireless Network Administrator (CWNA) exam. Prerequisites: CNT170, or permission of instructor.

CNT190

Cisco Network Design

3 Credits. 4 Periods.

Development of knowledge and skills required to design small- to-midsize local and widearea networks according to design principals developed by Cisco Systems. Preparation for Cisco Certified Design Associate (CCDA) industry examination. Prerequisites: CNT170, or Cisco Certified Network Associate certification, or permission of instructor.

CNT200

Cisco Networking Advanced Routing

4 credits 6 Periods.

Development of knowledge and skills needed to manage Internet Protocol (IP) traffic and access, design Wide Area Networks (WANs), understand scalable internetworks and Quality of Service (QoS), configure advanced routing protocols (Routing Internet Protocol version 2 [RIPv2], Border Gateway Protocol [BGP], Intermediate System to Intermediate System [IS-IS], Enhanced Interior Gateway Routing Protocol [EIGRP], Open Shortest Path First [OSPF]), and perform advanced IP addressing (Network Address Translation [NAT], Variable Length Subnet Masking [VLSM]). Preparation for Cisco Certified Network Professional (CCNP) exam. Prerequisites: CNT170 or CCNA industry certification, or permission of instructor. Corequisites: CNT210 and CNT220.



CNT210

Cisco Networking Remote-Access Networks

4 Credits. 6 Periods.

Emphasis on development of knowledge and skills to build, configure and troubleshoot a remote-access network to interconnect central sites of branch offices, home offices and control access to the central site plus maximize bandwidth over remote links. Preparation for Cisco Certified Network Professional (CCNP) exam. Prerequisites: CNT170, or CCNA industry certification, or permission of instructor. Corequisites: CNT200 and CNT220.

CNT220

Cisco Networking Multi-Layer Switching

4 Credits. 6 Periods.

Development of knowledge and skills in building campus networks using advanced and multi-layer switching technologies. Preparation for Cisco Certified Network Professional (CCNP) exam. Prerequisites: CNT170 or CCNA industry certification, or permission of instructor. Corequisites: CNT200 and CNT210.

CNT230

Cisco Network Troubleshooting

4 Credits. 6 Periods.

Emphasis on troubleshooting complex network problems by focusing on documenting and baselining a network, utilizing troubleshooting methodologies and tools, and learning effective skills in Layer 1 to 7 troubleshooting. Preparation for the last of four exams leading to the Cisco Certified Network Professional (CCNP) certification. Prerequisites: CNT200, CNT210 and CNT220, or CCNP Advanced Routing, Remote Access, and Multi-Layer Switching Certification, or permission of instructor.

CNT298AC

Special Projects

3 Credits. 3 Periods.

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 available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: Permission of Program Director or instructor.

COMMUNICATION

COM100

Introduction to Human

Communication

3 Credits. 3 Periods.

Theory and practice of communication skills in public, small group, and interpersonal settings. Includes study of the speech communication process. Prerequisites:

COM110

Interpersonal Communication

3 Credits. 3 Periods.

Theory and practice of communication skills which affect day-to-day interactions with other persons. Topics may include using verbal and nonverbal symbols, interactive listening, resolving interpersonal conflict, developing and maintaining personal and professional relationships. Prerequisites: None.

COM225

Public Speaking

3 Credits. 3 Periods.

Designed to enhance the student's ability to present public speeches confidently and competently. Also designed to improve information literacy and critical thinking skills. Prerequisites: ENG101 or ENG107, or equivalent.

COM230

Small Group Communication

3 Credits. 3 Periods.

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.

COM241

Performance of Literature

3 Credits. 3 Periods.

The study, analysis, and preparation of oral presentation of prose, poetry, and dramatic literature. Preparation of material for public audiences. Prerequisites: ENG101 or ENG107 or equivalent. Cross-References: THP241

COM243

Interpreters Theatre

3 Credits. 4 Periods.

Study, analysis, rehearsal, and performance of various types of literature. Prerequisites: None.

COM259

Communication in Business and

Professions

3 Credits. 3 Periods.

Interpersonal, group, and public communication in business and professional organizations. Emphasis on oral communication. Prerequisites: ENG101 or ENG107 or equivalent.

COM263

Elements of Intercultural Communication

3 Credits. 3 Periods.

Basic concepts, principles, and skills for improving oral communication between persons from different minority, racial, ethnic, and cultural backgrounds. Prerequisites: None.

COMPUTING

BPC101AA

Introduction to Computers I:

1 Credit. 2 Periods.

Computer software applications for the personal computer, including electronic spreadsheet and word processing, keyboarding review, and a desktop environment. Prerequisites: None.

BPC101BA

Introduction to Computers II:

1 Credit. 1 Period.

Computer software applications for the personal computer, including database management, computer graphics, electronic spreadsheet, and word processing, and operating system commands. Prerequisites: BPC101AA

BPC110

Computer Usage and Application

3 Credits. 4 Periods.

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.

BPC117DM

Microsoft Access: Database

Management

3 Credits. 5 Periods.

Introduction to the basic elements, exploration of additional components and common database management problems related to the Microsoft Access program. Prerequisites: None. Cross-References: BPC117DM



BPC118AB

Powerpoint: Level I

1 Credit. 2 Periods.

Use of Powerpoint software to produce professional-quality presentation visuals. Prerequisites: None. Cross-reference: CIS118AB.

BPC118BB

Powerpoint: Level II

1 Credit. 2 Periods.

Use of Powerpoint software add movement and sound to desktop presentations to enhance audience attention. Prerequisites: BPC/CIS118AB. Cross-reference: CIS118BB.

BPC118CB

Powerpoint: Level III

1 Credit. 1 Period.

Use of Powerpoint software for advanced desktop presentation techniques, including advanced animation and sound sequences. Prerequisites: BPC/CIS118BB. Crossreference: CIS118CB.

BPC118DB

Desktop Presentation: Powerpoint

3 Credits. 5 Periods.

Use of PowerPoint to produce professionalquality presentation visuals with animation and sound. Prerequisites: None. Cross-Reference: CIS118DB.

BPC121AB

Microsoft Command Line Operations

1 Credit. 2 Periods.

Use of the Microsoft command line within windows: basic concepts, internal and external commands, subdirectories, and editor. Prerequisites: None. Cross-References: CIS121AB

BPC128

Introduction to Desktop Publishing

1 Credit. 2 Periods.

Presents basic concepts of commercially prepared software used to do desktop publishing. Incorporates a combination of narrative and pictorial/graphic creation and presentation, including set up, text entry, graphic generation, text and graphic merging, and other computer-based functions. Prerequisites: None.

BPC133AA

Internet/Web Development Level I -A

1 Credits. 2 Periods.

Overview of the Internet and its resources. Hands-on experience with various Internet communication tools. Prerequisites: None. Cross-References: CIS133AA

BPC133BA

Internet/Web Development Level I -B

Credits. 1 Periods.

Exploration of additional Internet resources. Hands-on experience with a variety of resource discovery and information retrieval tools as well as enhancement of Web pages. Prerequisites: BPC/CIS133AA. Cross-References: CIS133AA

BPC133CA

IInternet/Web Development Level I-C

1 Credits. 1 Periods.

Web site development using enhancement codes. Includes frames, style sheets and javascript as well as design principles and typography. Prerequisites: BPC/CIS133BA. Cross-References: CIS133CA

BPC133DA

Internet/Web Development Level I

3 Credits. 4 Periods.

Overview of the Internet/WWW and its resources. Hands-on experience with various Internet/WWW communication, resource discovery, and information retrieval tools. Web page development also included. Prerequisites: None. Cross-References: CIS133DA

BPC135DK

Word: Level I

2 Credits. 2 Periods.

Using 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. Cross-reference: OAS135DK.

BPC138AA

Windows Desktop Design &

Publishing

3 Credits. 4 Periods.

Use of Windows based microcomputers and appropriate commercial software package to compose and print textual and graphic materials of high quality. Includes overview of micro operating system, word processing of copy, use of graphics programs, layout of design elements, and printing alternatives. Prerequisites: CIS105 or BPC110 or permission of instructor.

BPC138BA

Windows Desktop Design & Publishing Using Quark Express

3 Credits. 4 Periods.

Use of Windows based microcomputers and appropriate commercial software package to compose and print textual and graphic materials of high quality. Includes overview

of micro operating system, word processing of copy, use of graphics programs, layout of design elements, and printing alternatives. Prerequisites: CIS105 or BPC110 or permission of instructor.

BPC138CA

Windows Desktop Design & Publishing Using Pagemaker

3 Credits. 4 Periods.

Use of Windows based microcomputers and appropriate commercial software package to compose and print textual and graphic materials of high quality. Includes overview of micro operating system, word processing of copy, use of graphics programs, layout of design elements, and printing alternatives. Prerequisites: CIS105 or BPC110 or permission of instructor.

BPC138DA

Desktop Design & Publishing Using Adobe InDesign

3 Credits. 4 Periods.

Use of Adobe InDesign to compose and print textual and graphic materials of high quality. Includes word processing of copy, use of graphics programs, layout of design elements, printing alternatives, and file formats. Prerequisites: CIS105 or BPC110 or permission of instructor.

BPC170

Computer Maintenance I: A+ Prep

3 Credits. 4 Periods.

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

Recycling Used Computer Technology

1 Credit. 2 Periods.

Use of hardware maintenance knowledge and skills to refurbish used computers. Prerequisites: BPC170 or permission of instructor.



BPC238BA

Windows Advanced Desktop Design & Publishing Using Quark Express

3 Credits. 4 Periods.

Advanced use of Windows microcomputers and commercial software packages to compose and print textual and graphic materials of high quality. Includes review of fundamental desktop techniques and concepts, alternative treatment of copy, use of complex graphics programs, typographical manipulation, color separating, exploration of alternative layout programs, preparation of larger-scale and unusual publications, and additional printing alternatives. Prerequisites: BPC138BA or permission of instructor.

BPC238CA

Windows Advanced Desktop Design & Publishing Using Pagemaker

3 Credits. 4 Periods.

Advanced use of Windows microcomputers and commercial software packages to compose and print textual and graphic materials of high quality. Includes review of fundamental desktop techniques and concepts, alternative treatment of copy, use of complex graphics programs, typographical manipulation, color separating, exploration of alternative layout programs, preparation of larger-scale and unusual publications, and additional printing alternatives. Prerequisites: BPC138CA or permission of instructor.

BPC270

Microcomputer Maintenance II

3 Credits. 4 Periods.

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.

BPC273

Advanced Server Computer Maintenance: Server+ Prep

3 Credits. 4 Periods.

Focuses on complex technical aspects of the microcomputer server, including hardware installation, configuration, and trouble-shooting. Strong emphasis on network operating systems installations, data storage subsystems, and data recovery. Preparation for the CompTIA Server+ examination Prerequisites: (BPC170 and MST140) or permission of instructor.

BPC278

Software Installation - MS Windows

3 Credits. 4 Periods.

Installing and configuring microcomputer software. Emphasis placed on the installation, configuration, upgrade, and related problem resolution of microcomputer operating system and applications software. Prerequisites: CIS105, CIS114 (any module whose course number suffix begins with a "D"), CIS117 (any module whose course number suffix begins with a "D"), and BPC170 with grade of C or better, or permission of instructor.

COMPUTER AIDED

DRAFTING

CAD120

Getting Started with CAD

1 Credit. 2 Periods.

Basic commands, drawing aids; input devices; use of default settings. Prerequisites: None.

CAD150

Two-Dimensional CAD

1 Credit. 2 Periods.

Constructing scaled two-dimensional drawing using CAD. Prerequisites or Corequisites: (CAD105, CAD110, CAD115, CAD120, and CAD125) or permission of instructor.

CAD200

Three-Dimensional CAD: AutoCAD

2 Credit. 4 Periods.

Advanced techniques in construction of three-dimensional objects. Prerequisites: CAD150, or DFT105, or permission of instructor.

COMPUTER INFORMATION SYSTEMS

CIS102

Interpersonal and Customer Service Skills for IT Professionals

1 Credit. 1 Period.

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.

CIS103

Using Help Desk Software

2 Credits. 3 Periods.

Help desk software applications for tracking calls, querying data, recording macros, and generating reports. Prerequisites: CIS105 or permission of instructor.

CIS105

Survey of Computer Information Systems

3 Credits. 4 Periods.

Overview of computer technology, concepts, terminology, and the role of computers in presentation software. Includes programming and use of the Internet. Exploration of relevant emerging technologies. Prerequisites: None.

CIS107

The Electronic Game Industry

3 Credits. 4 Periods.

Introduction to the electronic game industry, including history, market, distribution and publishing channels, business models, team roles, and career landscape. Technical topics covered include software engineering, artificial intelligence, game physics, computer graphics, and networking. Prerequisites: CIS105, or permission of instructor.

CIS110

Home Entertainment and Computer Networking

3 Credits. 4 Periods.

Fundamentals of networking for the home user including internet connectivity, wired and wireless local area networks, networking device configuration, integration of entertainment electronics, security and ethics. Prerequisites: None.

CIS114AE

Excel: Level I

1 Credit. 2 Periods.

Computer spreadsheet skills for solving business problems using Excel, including calculations, forecasting and projections. Prerequisites: None. Cross-reference: BPC114AE.

CIS114BE

Excel: Level II

1 Credit. 2 Periods.

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. Cross-reference: BPC114BE.

CIS114CE

Excel: Level III

1 Credit. 1 Period.

Additional Excel spreadsheet techniques, including complex macros, statistics, and matrix manipulation. Project design using multiple, integrated spreadsheets. Prerequisites: BPC/CIS114BE or permission of instructor. Cross-reference: BPC114CE.



CIS114DE

Excel Spreadsheet

3 Credits. 5 Periods.

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. Cross-reference: BPC114DE.

CIS117AM

Database Management: Microsoft Access: Level I

1 Credit. 2 Periods.

Introduction to the basic elements of a current version of the Microsoft Access database management program, for casual and beginning users. Prerequisites: None. Cross-reference: BPC117AM.

CIS117BM

Database Management: Microsoft

Access: Level II

1 Credit. 2 Periods.

Exploration of additional components of the Microsoft Access database management program. Prerequisites: BPC/CIS117AM or permission of instructor. Cross-reference: BPC117BM.

CIS117CM

Database Management: Microsoft

Access: Level III

1 Credit. 1 Period. Application of the features of the Microsoft

Access program to some common database management problems. Prerequisites: BPC117BM or CIS117BM. Cross-reference: BPC117CM.

CIS117DM

Microsoft Access: Database

Management

3 Credits. 5 Periods.

Introduction to the basic elements, exploration of additional components and common database management problems related to the Microsoft Access program. Combines the contents of BPC/CIS117AM and BPC/CIS117BM and BPC/CIS117CM. Prerequisites: None. Cross-reference: BPC117DM.

CIS119DO

Introduction to Oracle: SQL

3 Credits. 4 Periods.

Use of Oracle tools and methodologies to fulfill real-world business information requirements. Hands-on exercises for designing, creating, and maintaining database structures to store, retrieve, update, and display data in a relational database using the SQL programming language. Creating and maintaining database objects. Advanced retrieval techniques. Prerequisites: CIS105 or permission of instructor.

CIS119DP

Oracle: Database Administration

3 Credits. 4 Periods.

Basic administrative tasks performed by a database administrator (DBA). Conceptual understanding and hands-on applications of the Oracle database architecture and interaction of its components. Prerequisites: (CIS119DO, and CIS164AB), or CIS126++, or permission of instructor.

CIS119DQ

Oracle: Backup and Recovery

2 Credits. 3 Periods.

Various backup, failure, restore, and recovery scenarios that apply to Oracle database environments. Backup methodologies based on business requirements in a mission critical enterprise. Multiple strategies and Oracle tools such as Recovery Manager. Prerequisites: CIS119DP or permission of the instructor.

CIS119DR

Oracle: Performance Tuning

3 Credits. 4 Periods.

Recognizing, troubleshooting, and resolving common performance related problems in administering an Oracle database. Includes an interactive workshop that will provide participants with the opportunity to walk through numerous real-world performance tuning case studies. Prerequisites: CIS119DP or permission of the instructor.

CIS120AB

Computer Graphics: Adobe Illustrator-Level I

1 Credit. 2 Periods.

Provides students with the capability to use Adobe Illustrator graphics software on a computer. Basic foundation course in the use of electronic techniques to create, manipulate, and edit images, graphics design, and color graphics. Prerequisites: None. Cross-References: BPC120AB

CIS120AF

Computer Graphics: Adobe Photoshop: Level I

1 Credit. 2 Periods.

Provides students with the capability to use Adobe Photoshop graphics software on a computer. Basic foundation course in the use of electronic techniques to select, manipulate, and edit images, for graphic design and image correction. Prerequisites: None. Cross-reference: BPC120AF.

CIS120BB

Computer Graphics: Adobe Illustrator-Level I I

1 Credit. 1 Periods.

Provides students with the capability to use Adobe Illustrator graphics software on a computer. Basic foundation course in the use of electronic techniques to create, manipulate, and edit images, text, abstract art, graphics design, color graphics and business charts, and create a PDF file. Prerequisites: BPC/CIS120AB Cross-References: BPC120BB

CIS120BF

Computer Graphics: Adobe Photoshop: Level I I

1 Credit. 1 Periods.

Provides students with the capability to use Adobe Photoshop graphics software on a computer. Includes working with masks, channels and layers, and combining raster and vector graphics. Prerequisites: BPC/CIS120AF. Cross-References: BPC120BF

CIS120CB

Computer Graphics: Adobe Illustrator-Level III

1 Credit. 1 Periods.

Provides students with the capability to use Adobe Illustrator graphics software on a computer. Basic foundation course in the use of electronic techniques to create, manipulate, and edit images, text, graphics design, color graphics, determine file formats appropriate for web and print, and utilize tools to optimize graphics. Prerequisites: BPC/CIS120BB. Cross-References: BPC120CB

CIS120CF

Computer Graphics: Adobe Photoshop: Level III

1 Credit. 1 Period.

Provides students with the capability to use Adobe Photoshop graphics software on a computer. Includes color printing, color management, creation of graphics for the Web. Prerequisites: BPC/CIS120BF. Cross-Reference: BPC120CF.



CIS120DB

Computer Graphics: Adobe Illustrator

3 Credits. 4 Periods.

Provides students with the capability to use Adobe Illustrator graphics software on a computer. Basic foundation course in the use of electronic techniques to create, manipulate, and edit images, text, abstract art, graphics design, color graphics and business charts; determine file formats appropriate for web and print; utilize tools to optimize graphics and create a PDF file. Prerequisites: None. Cross-References: BPC120DB

CIS120DC

Computer Graphics: Macromedia Flash

3 Credits. 4 Periods.

Provides students with the ability to use Macromedia Flash graphics software on microcomputers. Covers basic animation techniques used in the creation, manipulation, and editing of Flash animation graphics. Prerequisites: None. Cross-References: BPC120DC

CIS120DF

Computer Graphics: Adobe Photoshop

3 Credits. 4 Periods.

Provides students with the capability to use Adobe Photoshop graphics software on a computer. Basic foundation course in the use of electronic techniques to select, manipulate, and edit images, work with masks, channels and layers; combine raster and vector graphics; print in color, manage color, and create graphics for the web. Prerequisites: None.Cross-References: BPC120DF

CIS121AB

Microsoft Operating System

1 Credit. 2 Periods.

The use of the microsfot command line within windows: basic concepts, internal and external commands, subdirectories, and editor. Prerequisites: None. Cross-reference: BPC121AB.

CIS121AE

Windows Operating System: Level I

1 Credit. 2 Periods.

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. Cross-References: BPC121AE.

CIS122AC

UNIX Operating System: Multi-User

1 Credits. 2 Periods.

The use of the UNIX operating system on a midrange or mainframe computer; basic concepts, commands, file organization and management, and task management. Prerequisites: None.

CIS124AA

Project Management Software: Level I

1 Credits. 2 Periods.

Utilization of project management software packages by managers and advanced business students to solve critical management planning tasks. Evaluation of management opportunities utilizing software packages to monitor project progress and resource allocation. Includes "what-if" analyses, and preparation of management reports. Prerequisites: None.

CIS126AA

Unix Operating System: Level I

1 Credits. 2 Periods.

Use of the UNIX operating system: system components, built-in commands, files and directories, editors, and UNIX Shell and command lines. Prerequisites: None.

CIS126AL

Linux Operating System I

1 Credits. 1.7 Periods.

Introduction to the Linux Operating system. Develop knowledge and skills required to install, configure a Linux-based workstation including basic network functions. Prerequisites: None.

CIS126BA

Unix Operating System: Level I

1 Credits. 1 Period.

Installation, configuration, and maintenance of the UNIX operating system Prerequisites: CIS126AA

CIS126BL

Unix Operating System: Level II

1 Credits. 1 Periods.

Introduction to the Linux Operating system. Develop knowledge and skills required to configure a Linux-based workstation including basic printing functions. Learn basic command line and Graphical User Interface (GUI) desktop environment utilities and applications. Prerequisites: CIS126AL or permission of instructor.

CIS126CA

Unix Operating System: Level III

1 Credits. 1 Periods.

Create login scripts and batch files, and maintain system communications. Prerequisites: CIS126BA.

CIS126CL

Linux Operating System III

1 Credits. 1 Periods.

Introduction to the Linux Operating system. Develop knowledge and skills required to install and configure applications, and to troubleshoot a Linux-based workstation including basic network functions. Learn basic command line and Graphical User Interface (GUI) desktop environment utilities and applications. Prerequisites: CIS126BL or Permission of Instructor

CIS126DA

UNIX Operating System

3 Credits. 4 Periods.

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.

CIS126DL

Linux Operating System

3 Credits. 4 Periods.

Introduction to the Linux Operating system. Develop knowledge and skills required to install, configure and troubleshoot a Linux-based workstation including basic network functions. Learn basic command line and Graphical User Interface (GUI) desktop environment utilities and applications. Fundamental abilities to achieve the entrylevel industry certification covered. Prerequisites: None.

CIS133AA

Internet/Web Development Level I-A

1 Credit. 2 Periods.

Overview of the Internet and its resources. Hands-on experience with various Internet communication tools. Prerequisites: None. Cross-References: BPC133AA

CIS133BA

Internet/Web Development: Level I-B

1 Credit. 1 Period.

Exploration of additional Internet resources. Hands-on experience with a variety of resource discovery and information retrieval tools as well as enhancement of Web pages. Prerequisites: BPC/CIS133AA. Cross-References: BPC133BA.

CIS133CA

Internet/Web Development: Level I - C

1 Credit. 1 Period.

Web site development using the enhancement codes. Includes frames, style sheets and javascript as well as design principles and typography. Prerequisites: BPC/CIS133BA. Cross-References: BPC133CA

CIS133DA

Internet/Web Development Level I

3 Credits. 4 Periods.

Overview of the Internet/WWW and its resources. Hands-on experience with various Internet/WWW communication, resource discovery, and information retrieval tools. Web page development also included. Prerequisites: None. Cross-References: BPC133DA.

CIS140

Survey of Multimedia Technology

2 Credits. 3 Periods.

Introduction to multimedia technology and its uses. Overview of the various hardware and software used in developing and delivering multimedia. Emphasis on how multimedia is used in education and training.

Provides a basic understanding of the process used to define and develop multimedia applications. Prerequisites: CIS105, or permission of instructor. Cross-reference: MMT140.

CIS150

Programming Fundamentals

3 Credits. 4 Periods.

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.

CIS150AB

Object-Oriented Programming

Fundamentals

3 Credits. 4 Periods.

Structured and Object-Oriented design and logic tools. Use of computer problems to demonstrate and teach concepts using an appropriate programming language. Prerequisites: CIS105 or permission of instructor.

CIS151

Computer Game Development -Level I

3 Credits. 4 Periods.

Introduction to object-oriented game development, game design, and game theory. Use of computer software to demonstrate and teach concepts using an appropriate game development platform to model real-time simulations and create computer games using object oriented tools. Introduction to developing PC games, educational software, and training software using windows based object oriented developments tools. Prerequisite: CIS105 or permission of instructor.

CIS158

COBOL Programming I

3 Credits. 4 Periods.

Programming in structured COBOL for preparation of business reports. Hands-on computer experience. Prerequisites: CIS105, or permission of instructor.

CIS159

Visual Basic Programming I

3 Credits. 4 Periods.

Use of the Visual Basic programming language to solve problems using suitable examples from business or other disciplines. Prerequisites: CIS105 or permission of instructor.

CIS162

C Programming I

3 Credits. 4 Periods.

Beginning C programming. Includes features needed to construct programs, functions, pointers, input and output options, data types, structures, and unions, and disk file operations. Prerequisites: CIS105 or permission of instructor.

CIS162AA

C: Level I

3 Credits. 4 Periods.

Beginning C programming. Includes features needed to construct programs, functions, pointers, input and output options, data types, structures, and unions, and disk file operations. Prerequisites: CIS105, or permission of instructor.

CIS162AB

C++: Level I

3 Credits. 4 Periods.

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.

CIS162AC

Visual C++: Level I

3 Credits. 4 Periods.

Beginning C programming. Includes features needed to construct programs, functions, pointers, input and output options, data types, structures, and unions, and disk file operations. Prerequisites: CIS105, or permission of instructor.

CIS162AD

C#: Level I

3 Credits. 4 Periods.
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 objectoriented programming. Prerequisites: CIS105, or permission of instructor.

CIS163AA

Java Programming: Level I

3 Credits. 4 Periods.

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.

CIS164AC

Oracle: Developer Forms I

3 Credits. 4 Periods.

Building and testing interactive applications consisting of one or more Developer forms modules. Building a complete forms application using Oracle Developer. Customizing forms with graphical user input items, such as check boxes, list items and radio groups. Modifying data access by creating event-related triggers. Prerequisites: CIS164AB, or permission of instructor.

CIS164AD

Oracle: Developer Forms II

2 Credits. 3 Periods.

An opportunity to broaden skills using Developer Forms. Complex concepts, such as programming function keys, timers, and record groups. Using programmatic controls to manage the behavior and appearance of windows at runtime. Creating advanced multiple-form applications and managing multiple transactions across modules. Prerequisites: CIS164AC or permission of instructor.

CIS164AE

Oracle: Developer Reports

3 Credits. 4 Periods.

Building a variety of standard and custom reports in a client-server environment. Using a graphical user interface (GUI) environment to retrieve, display, and format data in many styles to create tabular, matrix, mailing label, and letter reports. Customizing more complex reports, embedding graphical charts in reports, and using the Intelligent Remote Reports Server. Prerequisites: CIS164AB or permission of instructor.



CIS164AG

Oracle: Data Modeling and Relational Database Design

2 Credits. 3 Periods.

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

Web Scripting/Programming

3 Credits. 4 Periods.

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.

CIS166AA

Introduction to JavaScripting

3 Credits. 4 Periods.

Introduction to basic JavaScript programming concepts including syntax. Covers Hypertext Markup Language (HTML), programming logic and debugging, as well as forms manipulation and animation. Prerequisites: CIS133CA or CIS133DA or permission of instructor.

CIS166AB

Web Scripting with Perl/CGI

3 Credits. 4 Periods.

Introduction to basic server-side programming using the common gateway interface (CGI) with the Perl programming language. Covers basic form development programming logic, Structured Query Language (SQL) and the Perl Database Interface (DBI) and CGI modules. Prerequisites: CIS133CA or CIS133DA or permission of instructor.

CIS166AC

Web Scripting with Active Server Pages (ASP).NET

3 Credits. 4 Periods.

InIntroduction to web scripting using Microsoft's ASP.Net (Active Server Pages). Web application development using Hypertext Markup Language (HTML), ASP.Net Web Forms, programming logic, and Structured Query Language (SQL). Prerequisites: ((CIS133CA or CIS133DA) and (CIS159 or CIS162AD)) or permission of instructor.

CIS166AD

Web Scripting with Java Server Pages (JSP)

3 Credits. 4 Periods.

Introduction to web scripting using JSP (Java Server Pages). Web application development using Hypertext Markup Language (HTML), JSP, programming logic, and Structured Query Language (SQL). Prerequisites: (CIS133CA or CIS133DA) and CIS163AA or permission of instructor.

CIS166AE

Web Scripting with PHP: Hypertext Preprocessor (PHP)

3 Credits. 4 Periods.

Introduction to web scripting with PHP (PHP: Hypertext Preprocessor). Web application development using Hypertext Markup Language (HTML), PHP, programming logic, and Structured Query Language (SQL). Prerequisites: CIS133CA or CIS133DA or permission of instructor.

CIS169

Introduction to Visual Basic for Applications

1 Credits. 2 Periods.

Introduction to Visual Basic for Applications (VBA) using Microsoft Office environments. Includes Dynamic Data structures, VBA class modules and error trapping and handling. Creation of customized office applications and network shares as well as multimedia techniques also covered. Prerequisites: CIS159 or permission of instructor.

CIS175EA

Introduction to Structured Query

Language

1 Credits. 2 Periods.

Introduction to Structured Query Language. Focuses on the query operation, including data collection, grouping and multi-table queries. Prerequisites: None. Cross-References: CCT175

CIS190

Introduction to Local Area Networks

3 Credits. 4 Periods.

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

Novell NetWare System Administration

3 Credits. 4 Periods.

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.

CIS214DE

Advanced Excel Spreadsheet: Level II

3 Credits. 5 Periods.

Advanced Excel spreadsheet features including formatting techniques, macros and Visual Basic for applications. Templates, built-in functions and lists as well as analysis tools including Pivot Tables and Goal Seek covered. Import and export data, workgroup collaboration and Internet features of Excel emphasized. Prerequisites: CIS114DE or permission of instructor. Cross-References: BPC214DE.

CIS217AM

Advanced Microsoft Access: Database Management

3 Credits. 4 Periods.

Advanced database concepts including database design, primary and secondary key selection and relationships between tables. Queries, sub forms, macros, events, Visual Basic modules and Access Internet features also covered. Prerequisites: (BPC/CIS117DM or BPC/CIS117CM). Cross-References: BPC217AM

CIS220DF

Advanced PhotoShop

3 Credits. 4 Periods.

Goes beyond the basic use of palettes, selections, layers, menus, and tool options, and focuses on using Photoshop software's advanced features to manipulate and correct digital and digitally produced images. Prerequisites: (BPC/CIS120AF, BPC/CIS120BF and BPC/CIS120CF) or BPC/CIS120DF, or permission of instructor. Cross-References: BPC220DF

CIS221

Advanced DOS

2 Credits. 3 Periods.

Advanced DOS commands, concepts, and usage. Emphasis on batch file programming, configuration and optimization of the DOS environment, various commercial utilities, security and disaster planning, and legal considerations. Prerequisites: CIS121AB or (BPC102AA and BPC102BA) or permission of instructor.

CIS224

Project Management Microsoft Project for Windows

3 Credits. 4 Periods.

Introduction to project management concepts while working with MS Project to solve complex project management networks, including creating Gantt and PERT charts, tracking project progress, planning for restrictions, and integrating MS Project with other software packages such as Excel, Word, Powerpoint, and ccMail. Prerequisites: None. Cross-References: BPC224

CIS225

Business Systems Analysis and Design

3 Credits. 3 Periods.

Investigation, analysis, design, implementation and evaluation of business computer systems. Prerequisites: Any programming language or permission of instructor.

CIS225AB

Object-Oriented Analysis and Design

3 Credits. 3 Periods.

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.

CIS226AA

Internet/Intranet Server Administration-UNIX

3 Credits. 4 Periods.

Set up and management of internet/intranet services, including World Wide Web (WWW) and Simple Mail Transfer Protocol (SMTP) in a UNIX environment. Includes coverage of security issues. Prerequisites: (CIS126DA and CIS133DA), or permission of instructor

CIS233AA

Internet/Web Development Level II-A

1 Credit. 2 Periods.

Design and creation of pages on the World Wide Web using hypertext markup language (HTML). Hands-on experience authoring HTML and preparing sophisticated web documents. Prerequisites: BPC/CIS133BA or permission of instructor

CIS233BA

Internet/Web Development Level II-B

1 Credit. 1 Period.

Hands-on experience designing Web presentations using advanced markup

languages, programming languages, scripts, and multimedia. Prerequisites: CIS233AA or permission of instructor

CIS233CA

Internet/Web Development Level II-C

1 Credit. 1 Period.

Exloration of best practices/issues for web design and publishing and careers in web development and e-commerce. Prerequisites: CIS233BA or permission of instructor.

CIS233DA

Internet/Web Development Level II

3 Credits. 4 Periods.

Design and create pages 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.

CIS234

XMLApplication Development

3 Credits. 4 Periods.

The use of Extensible Markup Language (XML) to make documents smarter, simplify Web automation, and to communicate between databases, both within and between corporations. Includes techniques for XML generation, data extraction and sharing, and transformation and managing of XML files. Prerequisites: (CIS133CA or CIS133DA) and (CIS117DM or CIS119DO) or permission of the instructor.

CIS235

e-Commerce

3 Credits. 4 Periods.

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.

CIS238DL

Linux System Administration

3 Credits. 4 Periods.

Managing Linux Operating Systems including sophisticated manipulation of file structures, backup systems, printing processes, troubleshooting, user account management, hard disk maintenance and configuration, process monitoring and prioritizing, kernel customization, and system resource control.

Preparation for industry certifications such as the SAIR/GNU LCP and LCA certificates, CompTIA's Linux+, RHCT, RHCE, and LPIC. Prerequisites: CIS126AL, CIS126BL and CIS126CL; or CIS126DL or Permission of Instructor

CIS238US

Unix Security

3 Credits. 4 Periods.

Unix system administration and security management including directory structure, access control and authentication mechanisms, password management, system logs and monitoring, process accounting, configuring public services, restricted environments, the sudo command, SSH (Secure Shell), file system mount options, file integrity management, immutable/append-only files and system security levels, loadable kernel modules, rootkits, non-executable stacks, backups, common vulnerabilities and exposures, and firewall filtering. Prerequisites: CIS238, or permission of instructor.

CIS239DL

Linus Shell Scripting

3 Credits. 4 Periods.

Linux Shell Scripting syntax and methods including the automation of system tasks as well as interpreted user-level programming. Course includes the Linux Borne Again Shell (BASH) as well as a variety of industry competitors. Prerequisites: CIS238DL or permission of instructor.

CIS240DL

Linux Network Administration

3 Credits. 4 Periods.

In depth networking based on Linux servers and the Transmission Control Protocol/ Internet Protocol (TCP/IP) protocol suite. Integrating Linux servers and workstations into a network environment with multiplatform network operating systems including a variety of open-standard and proprietary protocols. Preparation for industry certifications such as the SAIR/GNU LCP and LCA certificates, CompTIA's Linux+, RHCT, RHCE, and LPIC. Prerequisites: CIS126AL, CIS126BL and CIS126CL; or CIS126DL or instructor approval.



CIS241DL

Apache Web Server Administration (Linux/Unix)

3 Credits. 4 Periods.

Knowledge and skills to install, configure and securely manage a Linux/Unix Apache web server in an Open Source Environment. Securely incorporates Common Gateway Interface (CGI) handlers, Secure Socket Layer (SSL), dynamic content, and customization of the Apache web server with add-in modules. Preparation for entry-level industry certification exams will be covered. Prerequisites: CIS266AA, or CIS226AL, or CIS238DL, or permission of instructor.

CIS250

Management Information Systems

3 Credits. 3 Periods.

The study of business information systems and its management, communication, ebusiness strategies, emerging technologies, database concepts, and project management. Overview of systems analysis and design. Learn about the competitive and strategic uses of information systems and how they are transforming organizations and their management. Prerequisites: CIS105.

CIS251

Computer Game Development -Level II

3 Credits. 4 Periods.

Advanced object-oriented game development, advanced game design, and advanced game theory. Use of game development software tools to demonstrate advanced concepts for modeling real-time simulations and creating computer games using object oriented development tools. In depth coverage of game programming (scripting) techniques, and decision logic using object oriented techniques. Prerequisites: CIS151 or permission of instructor

CIS253

Computer Game Development -Level III

3 Credits. 4 Periods.

Advanced object oriented game development, controlling and programming game and windows resources using the game development language. Modeling real-time simulations and game worlds using advanced programming techniques and artificial intelligence. Creation of network and Internet based multi-player games using object oriented techniques and packet based communication protocols. Prerequisites: CIS251 or permission of Instructor.

CIS259

Visual Basic Progamming II

3 Credits. 4 Periods.

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.

CIS262

C Programming II

3 Credits. 4 Periods.

Advanced level C programming. Programming with emphasis on data management, dynamic allocation, varied memory models, interfacing with the operating system, efficiency, and advanced debugging techniques. Prerequisites: CIS162, or permission of instructor.

CIS262AA

C: Level II

3 Credits. 4 Periods.

Advanced level C programming. Programming with emphasis on data management, dynamic allocation, varied memory models, interfacing with the operating system, efficiency, and advanced debugging techniques. Prerequisites: CIS162AA, or permission of instructor.

CIS262AB

C++: Level II

3 Credits. 4 Periods.

Advanced level C++ programming with emphasis on arrays, data management, dynamic memory allocation, object-oriented programming concepts, input/output operations, libraries, and debugging techniques. Includes overview of other advanced applications of C++. Prerequisites: Permission of instructor

CIS262AC

Visual C++: Level II

3 Credits. 4 Periods.

Advanced-level C programming. Programming with emphasis on data management, dynamic allocation, varied memory models, interfacing with the operating system, efficiency, and advanced debugging techniques. Prerequisites: CIS162AC, or permission of instructor

CIS263AA

Java Progamming: Level II

3 Credits. 4 Periods.

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.

CIS270

Essentials of Network and Information Security

3 Credits. 4 Periods.

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.

CIS271DL

Linux Security

3 Credits. 4 Periods.

Implementing in-depth security methods and techniques in a Linux-based network environment. Utilize programs, utilities and configuration techniques to provide user-level, file system, and network security. Gain knowledge in a variety of security cracking techniques and how to guard against them. In all aspects of security, the standard of practicing professional ethics seriously emphasized. Preparation for industry certifications such as the SAIR/GNU LCP and LCA certificates, CompTIA's Linux+, RHCT, RHCE, and LPIC. Prerequisites: CIS240DL or Permission of Instructor.

CIS280

Current Topics in Computing

3 Credit. 4 Periods.

Critical inquiry of current topics in computing. Application of industry trends to solve problems and/or investigate issues. Prerequisites: None.

CIS282

Volunteerism for Computer Information Systems: A Service Learning Experience

3 Credit. 3 Periods.

Service learning field experience within private/public agencies, educational institution, and citizen volunteer groups. May be repeated for a total of six (6) CIS282 credit hours. Standard grading available according to procedures outlined in catalog. Prerequisites: Permission of instructor.



CIS290AA

Computer Information Systems Internship

1 Credit. 6 Periods.

Work experience in business or industry. Prerequisites: Permission of instructor. Cross-References: BPC290AA

CIS290AB

Computer Information Systems Internship

2 Credits. 12 Periods.

Work experience in business or industry. Prerequisites: Permission of instructor.

Cross-References: BPC290AB

CIS290AC

Computer Information Systems Interships

3 Credits. 18 Periods.

Work experience in business or industry. Prerequisites: Permission of instructor. Cross-References: BPC290AC

CIS296WB

Cooperative Education

2 Credits. 10 Periods.

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

CIS296WC

Cooperative Education

3 Credits. 15 Periods.

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: Completion of at least twelve (12) college credits, minimum 2.6 grade point average, and be able to obtain a position related to student's academic or career goals (student's present job may qualify); or permission of instructor. Corequisites: Must be concurrently enrolled in at least one class which is related to student's major or career interest or with permission of the instructor.

CIS298AA

Special Projects

1 Credits. 1 Periods.

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: Permission of Program of Director or instructor.

CIS298AB

Special Projects

2 Credits. 2 Periods.

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 available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: Permission of Program Director or instructor.

CIS298AC

Special Projects

3 Credits. 3 Periods.

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 available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: Permission of Program Director or instructor.

COUNSELING AND PERSONAL DEVELOPMENT

CPD100

Orientation for Student Development

1 Credit. 1 Period.

Offered to orient new students to college life. Emphasis on assessing students' academic potential, facilitating curricular advisement and registration procedures, learning academic survival skills, and becoming aware of all services available to students on campus and in the community. Prerequisites: None.

CPD103BL

Dynamics of Leadership

2 Credits. 2 Periods.

Designed to provide strategies that may be used when assuming leadership roles. Focus on improving supervisory confidence through the development of appropriate competitive behaviors, problem-solving skills, and techniques of leadership. Prerequisites: None.

CPD104

Career and Personal Development

3 Credits. 3 Periods.

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

Strategies for College Success

3 Credits. 3 Periods.

Focus on increasing student success through the college orientation and personal growth, study skills development, and educational and career planning. Prerequisites: None. Cross-reference: AAA150.

CPD150AA

College Orientation & Personal Growth

1 Credit. 1 Period.

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. Cross-References: AAA150AA

CPD150AB

Study Skills Development

1 Credit. 1 Period.

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. Cross-reference: AAA150AB.



CPD150AC

Educational & Career Planning

1 Credit. 1 Period.

Emphasis on increasing student success through educational and career planning. Prerequisites: None. Cross-Reference: AAA150AC.

CPD160

Introduction to Multiculturalism

3 Credits. 3 Periods.

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.

CREATIVE WRITING

CRW170

Introduction to Writing Fiction

3 Credits. 3 Periods.

Practice in writing fiction through a process of prewriting (invention and discovery), writing, analysis and evaluation (in workshop), and revision; practice in manipulating various elements and forms of fiction; production of marketable quality short fiction. Prerequisites: None. CRW150 recommended but not required.

CRITICAL READING

CRE101

Critical and Evaluative Reading I

3 Credits. 3 Periods.

Emphasis on applying critical inquiry skills to varied and challenging reading materials. Includes analysis, synthesis, and evaluation through written discourse. Prerequisites: ENG101 and (reading placement test score of 41 or higher (ASSET), or grade of "C" or better in RDG091, or permission of instructor.)

CRE111

Critical Reading for Business and Industry

3 Credits. 3 Periods.

Emphasis on reading skills required for success in business and technology. Includes interpretation of technical and professional materials with an emphasis on critical analysis and reading. Prerequisites: Reading Asset test score, or grade of "C" or better in RDG091, or permission of instructor.

DANCE

DAN133

Modern Jazz Dance I

1 Credit. 3 Period.

Introduction to the theory and practice of modern jazz dance at the beginning level. Development of movement quality and performance skills. Prerequisites: None. Course Note: May be repeated for a total of two (2) credit hours.

DANCE HUMANITIES

DAH201

World Dance Perspectives

3 Credits. 3 Periods.

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.

EARLY CHILDHOOD EDUCATION

ECH176

Child Development

3 Credits. 3 Periods.

Study of the science of human development from conception through adolescence. Includes observation skills, parent and adult roles in the lives of children, and contemporary issues. Prerequisites: None. Cross-References: CFS176

ECH270

Observing Young Children

1 Credit. 1 Period.

Introduction to techniques of observing young children. Recording methods, interpretation and use of collected information including legal and ethical implications. Prerequisites: None.

ECH271

Arranging the Environment

1 Credit. 1 Period.

Exploration of the influence of the environment on the behavior of young children. Indoor and outdoor spaces considered and analysis of environments practiced. Prerequisites: None.

ECH275

Literacy Development and the Young Child

1 Credit. 1 Period.

Literacy from birth through the early childhood years. Focus on developmentally

appropriate ways to encourage speaking, listening, writing, and reading in the home and classroom. Prerequisites: None.

ECH279

Early Childhood Curriculum Development

1 Credit. 1 Period.

An intensive focus on the process of building curriculum units appropriate to the developmental needs and abilities of the young child. Design, use and evaluation of materials and activities. May be repeated for a total of four (4) credits. Prerequisites: None.

ECH282

Discipline/Guidance of Child Groups

1 Credit. 1 Period.

Exploration of techniques for guiding children in groups with focus on individual child and adult needs for a disciplined environment. Prerequisites: None.

ECH287

Professional Development in Early Childhood Education

1 Credit. 1 Period.

Emerging professionalism within the field of early childhood education. Consideration of job responsibilities, rewards, ethics and current issues facing practitioners. Includes assessment and career planning. Prerequisites:

ECONOMICS

ECN111

Macroeconomic Principles

3 Credits. 3 Periods.

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

Microeconomic Principles

3 Credits. 3 Periods.

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. Prerequisites: None.



ECN211

Macroeconomic Principles

3 Credits. 3 Periods.

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.

ECN212

Microeconomic Principles

3 Credits. 3 Periods.

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. Prerequisites: None.

EDUCATION

EDU205

Self Assessment for Teaching

3 Credits. 3 Periods.

An exploratory course for students considering a teaching career. Examination of the field of education in the United States through field experiences, self-assessment activities and career information. Prerequisites: None.

EDU220

Introduction to Serving English Language Learners (ELL)

3 Credits. 3 Periods.

Rationale for and current educational and legal issues for English Language Learners (ELL). Comparison and evaluation of various types of language educational models including Structured English Immersion (SEI), English as a Second Language (ESL) and bilingual. Prerequisites: Provisional or standard elementary, secondary, or special education teaching certificate, or permission of department. Cross-References: EPD220 Course Note: Approved school-based practicum required. EDU/EPD220 incorporates the 45-clock hour curricular framework requirement for provisional SEI endorsement through the Arizona Department of Education.

EDU221

Introduction to Education

3 Credits. 3 Periods.

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 Note: Requires minimum of 30 hours of field experience in elementary or secondary classroom environment.

EDU222

Introduction to the Exceptional

Learner

3 Credits. 3 Periods.

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. Includes school-based practicum Prerequisites: None.

EDU225

Foundations for Serving English Language Learners (ELL)

3 Credits. 3 Periods.

Rationale for and current educational and legal issues for English Language Learners (ELL). Comparison and evaluation of various types of language educational models including Structured English Immersion (SEI), English as a Second Language (ESL) and bilingual. Prerequisites: None.

EDU230

Cultural Diversity in Education

3 Credits. 3 Periods.

Examination of the relationship of cultural values to the formation of self-concept and learning styles. Examination of the role of prejudice, stereotyping and cultural incompatibilities in education. Emphasis on teacher preparation (preservice and/or inservice) to offer an equal educational opportunity to students of all cultural groups. Prerequisites: None.

EDU233

Structured English Immersion (SEI) and English as a Second Language (ESL) Teaching Methods

3 Credits. 3 Periods.

Methods of planning, developing, and analyzing lesson plans in all content areas using English Language Learners (ELL) Standards. Emphasis on components of curriculum content, teaching strategies, development/evaluation/adaptation of teaching materials, and the role of culture in learning. Examines the alignment of ELL Proficiency Standards to the Arizona Language Arts Academic Standards. Covers multiple assessment techniques, tracking of

student progress using the Stanford English Language Proficiency (SELP) assessment, and use of assessment results for placement and accommodation. Prerequisites: Provisional or standard elementary, secondary, or special education teaching certificate and (EDU/EPD220 or EDU225), or permission of department. Cross-References: EPD233 Course Note: Approved school-based practicum required. EDU233 incorporates curricular framework for the 45-clock hour requirement for SEI endorsement through the Arizona Department of Education.

EDU282AA

Volunteerism for Education: A Service Learning Experience

1 Credit. 1 Period.

Service-learning field experience within educational systems, citizen advocacy groups, and human service organizations/ agency. May be repeated for a total of six (6) EDU282 credit hours; may not repeat specific agency assignment for more than three (3) credit hours. Standard grading available according to procedures outlined in catalog. Prerequisites: Permission of instructor.

EDU282AB

Volunteerism for Education: A Service Learning Experience

2 Credit. 2 Period.

Service-learning field experience within educational systems, citizen advocacy groups, and human service organizations/agency. May be repeated for a total of six (6) EDU282 credit hours; may not repeat specific agency assignment for more than three (3) credit hours. Standard grading available according to procedures outlined in catalog. Prerequisites: Permission of instructor.

EDU282AC

Volunteerism for Education: A Service Learning Experience

3 Credit. 3 Period.

Service-learning field experience within educational systems, citizen advocacy groups, and human service organizations/ agency. May be repeated for a total of six (6) EDU282 credit hours; may not repeat specific agency assignment for more than three (3) credit hours. Standard grading available according to procedures outlined in catalog. Prerequisites: Permission of instructor.



EDU291

Children's Literature

3 Credits. 3 Periods.

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.

EDU292

The Art Of Storytelling

3 Credits. 3 Periods.

Explore the art and origin of storytelling. Provide a variety of storytelling techniques, styles and exercises to enhance the delivery of telling stories. Assist in the integration and application of storytelling to the learning environment in the classroom. Prerequisites: None.

EDU296WA

Cooperative Education

1 Credits. 5 Periods.

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: Completion of at least twelve (12) college credits, minimum 2.6 grade point average, and be able to obtain a position related to student's academic or career goals (student's present job may qualify); or permission of instructor. Corequisites: Must be concurrently enrolled in at least one class which is related to student's major or career interest or with permission of the instructor.

EDU296WB

Cooperative Education

2 Credits. 10 Periods.

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: Completion of at least twelve (12) college credits, minimum 2.6 grade point average, and be able to obtain a position related to student's academic or career goals (student's present job may qualify); or permission of instructor. Corequisites: Must be concurrently enrolled in at least one class which is related to student's major or career interest or with permission of the instructor.

EDU296WC

Cooperative Education

3 Credits. 15 Periods.

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: Completion of at least twelve (12) college

credits, minimum 2.6 grade point average, and be able to obtain a position related to student's academic or career goals (student's present job may qualify); or permission of instructor. Corequisites: Must be concurrently enrolled in at least one class which is related to student's major or career interest or with permission of the instructor.

EDUCATION PROFESSIONAL DEVELOPMENT

EPD220

Introduction to Serving English Language Learners (ELL)

3 Credits. 3 Periods.

Rationale for and current educational and legal issues for English Language Learners (ELL). Comparison and evaluation of various types of language educational models including Structured English Immersion (SEI), English as a Second Language (ESL) and bilingual. Prerequisites: Provisional or standard elementary, secondary, or special education teaching certificate, or permission of department. Cross-References: EPD220 Course Note: Approved school-based practicum required. EDU/EPD220 incorporates the 45-clock hour curricular framework requirement for provisional SEI endorsement through the Arizona Department of Education.

EPD233

Introduction to Serving English Language Learners (ELL)

3 Credits. 3 Periods.

Rationale for and current educational and legal issues for English Language Learners (ELL). Comparison and evaluation of various types of language educational models including Structured English Immersion (SEI), English as a Second Language (ESL) and bilingual. Prerequisites: Provisional or standard elementary, secondary, or special education teaching certificate, or permission of department. Cross-References: EDU233

Course Note: Approved school-based practicum required. EDU233 incorporates curricular framework for the 45-clock hour requirement for SEI endorsement through the Arizona Department of Education.

ELECTRICITY

ELC105

Electricity for Industry

3 Credits. 3 Periods.

Electricity related to industrial applications. Operation of and safety protocols for the use of electrical meters. Electrical loads calculations and evaluation of air conditioning power sources. Single-phase motors, motor resistance and motor terminals. Function of electro-magnetic solenoids and transformers. National Electric Code. Prerequisites: None. Corequisites: ELC/FAC/HVA105LL or permission of instructor. Cross-References: HVA105, FAC105

ELC105LL

Electricity for Industry Lab

1 Credits. 3 Periods.

Diagramming and assembling series circuits, parallel circuits and wiring relays, thermostats, switches and lights. Electrical readings on compressors. Emphasis on safety. Prerequisites: None. Corequisites: ELC/FAC/HVA105 or permission of instructor. Cross-References: FAC105LL, HVA105LL

ELC115

Motors Controls and Wiring Diagrams

3 Credits. 3 Periods.

Principles of three-phase motors. Wye and Delta wiring. Calculation of motor current draw. Sequence of operation, wiring diagram and electrical components associated with industrial equipment. Procedures for evaluating electrical problems. Safety stressed. Prerequisites: ELC/FAC/HVA105 or permission of department or ELC/FAC/HVA105LL or permission of department. Corequisites: ELC/FAC/HVA115LL or permission of department. Cross-References: FAC115, HVA115

ELC115LL

Motors, Controls, and Wiring Diagrams Lab

1 Credits. 3 Periods.

Drawing wiring diagrams, wiring systems and checking electrical circuits. Troubleshooting electrical problems of three-phase motors and controls. Safety stressed. Prerequisites: ELC/FAC/HVA105 or permission of department or ELC/FAC/HVA105LL or permission of department. Corequisites: ELC/FAC/HVA115 or permission of department. Cross-References: FAC115LL, HVA115LL

ELC119

Concepts of Electricity and Electronics

3 Credits. 3 Periods.

Principles of electric circuits, magnetism and electromagnetism including basic motors and generators. Use of basic measuring instruments. Includes an overview of electronics in the modern world. Prerequisites: None.



ELC120

Solid State Fundamentals

3 Credits. 3 Periods.

Theory of operation of semi-conductor devices, component and system construction, operation, installation, and service. Specific and practical applications in relations to temperature, light, speed and pressure control. Includes amplifiers, power supplies, integrated circuits, fiberoptics, and safety. Prerequisites: None.

ELC210

AC Machinery and DC Machinery

3 Credits. 3 Periods.

Principles and operation of AC (Alternating current) and DC (direct current) motors, generators, and alternators. Includes single-phase motors along with induction, synchronous, and wound-rotor types of three-phase motors. DC motors including shunt-field, series field, wound rotor, permanent magnet, stepper and brushless types. Prerequisites: None.

ELC217

Motor Controls

3 Credits. 3 Periods.

Electrical symbols, line diagrams and logic. Contacts and starters, control devices, reversing circuits and power distribution systems. Magnetism and magnetic solenoids, reduced voltage starters, and circuits. Hand tools and safety procedures. Prerequisites: None.

ELC218

Variable Frequency Drives

3 Credits. 3 Periods.

Principles and operation of frequency controlled AC (Alternating current) motor drives, including current source inverters (CSI), variable voltage inverters (VVI) and pulse width modulated inverters (PWM). Heating, ventilation and air conditioning (HVAC) applications along with energy savings, motor pump sizing and torque load calculations. Prerequisites: Permission of instructor.

ELC219

Programmable Controllers

4 Credits. 6 Periods.

Principles and applications of programmable logic controls (PLC's). Numbering systems, control strategies, and ladder logic. Basic machine functions and operations to include programming, troubleshooting and maintenance. Application of PLC programming, operations and troubleshooting skills. Prerequisites: ELC105 and ELC115 and ELC119, or permission of instructor.

ELECTRONICS

ELT100

Survey of Electronics

3 Credits. 3 Periods.

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.

ELT101

Mathematics for Electronic I

3 Credits. 3 Periods.

Basic principles of Algebra with applications to the analysis of electronic circuits. Emphasis on the use of the calculator for conversions and DC (direct current) circuit problems. Prerequisites: None.

ELT102

Mathematics for Electronics II

3 Credits. 3 Periods.

The study of simultaneous equations, quadratic equations, trigonometric relationships, periodic functions and logarithms as applied to AC(alternating current) circuit analysis. Application of the scientific calculator to technical problem solving in electronics. Prerequisites: ELT101 or equivalent.

ELT113

Basic Electronics

LEC 4 Credits. 3 Periods. LAB 0 Credits. 3 Periods.

Direct and alternating current electrical circuits. Theory and practical lab experience, using the appropriate test equipment and computer solutions. Ohm's Law, Kirchhoff's Laws, and various network theorems applied to the study and analysis of series, parallel, and series-parallel circuit configurations. Includes complex algebra, impedance, frequency response, and resonance. Prerequisites or Corequisites: ELT102 or equivalent.

ELT131

Digital and Logic Circuits

LEC 4 Credits. 3 Periods.

LAB 0 Credits. 3 Periods.

Digital concepts and fundamentals, number systems and codes, Boolean algebra and combinational logic, logic reduction techniques, and logic hardware. Memories and programmable logic arrays. Hands-on hardware and computer-aided logic design experiments. Prerequisites: ELT113 or permission of instructor. Cross-References: SMT131

ELT195

Solid State Electronics

LEC 4 Credits. 3 Periods.

LAB 0 Credits. 3 Periods.

Characteristics and use of solid state devices in practical circuit applications. Circuit analysis techniques and computer simulations. Includes diodes transistors.

analysis techniques and computer simulations. Includes, diodes, transistors, four-layer devices, operational amplifiers, and interfacing devices. Prerequisites: ELT113 or departmental approval.

ELT251

Electronic Instrumentation

LEC 3 Credits. 2 Periods.

LAB 0 Credits. 3 Periods.

Electronic instruments and their usage in measuring and analyzing electronic circuits. Includes both analog and digital meters, oscilloscopes, and digital logic analyzers. Covers automatic test equipment, various transducers, and reliability requirements. Prerequisites: (ELT195 and ELT131) or departmental approval.

ENGLISH

ENG061

Basic Writing Skills

3 Credits. 3 Periods.

Emphasis on preparation for college-level composition with a focus on foundational skills. Establishing effective writing strategies through six or more writing projects comprising at least 1500 words in total. Prerequisites: Appropriate English placement test score or permission of department/division chair. Course Note: Through six or more writing projects comprising at least 1500 words (final drafts), the student will demonstrate an understanding of writing as a process through the ability to complete the ENG061 competencies.

ENG071

Fundamentals of Writing

3 Credits. 3 Periods.

Emphasis on preparation for college-level composition with a focus on organizational skills. Developing effective writing strategies through five or more writing projects comprising at least 2000 words in total. Prerequisites: Appropriate English placement test score or permission of department/division chair. Course Note: Through five or more writing projects comprising at least 2000 words (final drafts), the student will demonstrate an understanding of writing as a process through the ability to complete the ENG071 competencies.



ENG101

First-Year Composition

3 Credits 3 Periods.

Emphasis on rhetoric and composition with a focus on expository writing and understanding writing as a process. Establishing effective college-level writing strategies through four or more writing projects comprising at least 3,000 words in total. Prerequisites: Appropriate English placement test score or (a grade of "C" or better in ENG071). Course Note: Through four or more writing projects comprising at least 3,000 words (final drafts), the student will demonstrate an understanding of expository writing as a process per the course competencies.

ENG102

First Year Composition

3 Credits. 3 Periods.

Emphasis on rhetoric and composition with a focus on persuasive, research-based writing and understanding writing as a process. Developing advanced college-level writing strategies through three or more writing projects comprising at least 4,000 words in total. Prerequisites: ENG101 with a grade of "C" or better.

ENG107

First-Year Composition for ESL

3 Credits. 3 Periods.

Equivalent of ENG 101 for students of English as a Second Language (ESL). Emphasis on rhetoric and composition with a focus on expository writing and understanding writing as a process. Establishing effective college-level writing strategies through four or more writing projects comprising at least 3,000 words in total. Prerequisites: Appropriate ASSET/ COMPASS placement test score, or a grade of "C" or better in ENG071 or ESL077. Course Note: Through four or more writing projects comprising at least 3,000 words in total, the student will demonstrate an understanding of writing as a process per the course competencies

ENG108

First Year Composition for ESL

3 Credits. 3 Periods.

Equivalent of ENG102 for students of English as a Second Language (ESL). Emphasis on rhetoric and composition with a focus on persuasive, research-based writing and understanding writing as a process. Developing advanced college-level writing strategies through three or more writing projects comprising at least 4,000 words in total. Prerequisites: Grade of C, or better, in ENG107. Course Note: Through three or

more writing projects comprising at least 4,000 words in total, the student will demonstrate an understanding of writing as a process per the course competencies. Not open to students who have completed ENG101

ENG111

Technical Writing

3 Credits. 3 Periods

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.

ENG200

Reading and Writing About

Literature

3 Credits. 3 Periods.

Emphasis on critical analysis of various genres of literature; includes study of necessary terminology, introduction to methods of literary criticism, and practice in interpretation and evaluation. Prerequisites: ENG102.

ENG210

Creative Writing

3 Credits. 3 Periods.

Skills and techniques used in the production of marketable materials for contemporary publications that buy prose fiction, poetry, and expository articles. May be repeated for a total of six (6) credit hours with departmental approval. Prerequisites: ENG102 with a grade of "C", or better, or permission of department.

ENG213

Introduction to the Study of Language

3 Credits. 3 Periods.

Study of language as code; phonetics, phonology, morphology, syntax, semantics; language acquisition; historical and sociolinguistics. Prerequisites: ENG102, or ENG111 with a grade of "C", or better, or permission of instructor.

ENG217

Personal and Exploratory Writing

3 Credits. 3 Periods.

Using writing to explore one's self and the world one lives in; emphasis on journal writing as a source and inspiration for public writing. Prerequisites: ENG101 or ENG107 or equivalent.

ENGLISH AS A SECOND LANGUAGE

ESL001BA

Basic ESL I: Personal Health and Safety

2 Credits. 2 Periods.

Listening, speaking, reading and writing in English at a basic level. Focus on survival skills related to personal health and safety when living in the United States. Introduction to elementary grammatical patterns. Prerequisites: None. Course Note: Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog. May be repeated for a total of four (4) credits.

ESL001BB

Basic ESL I: Services & Employment

2 Credits. 2 Periods.

Listening, speaking, reading and writing in English at a basic level. Focus on survival skills related to services and employment when living in the United States. Introduction to elementary grammatical patterns. Prerequisites: ESL001BA or permission of instructor. Course Note: Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog. May be repeated for a total of four (4) credits.

ESL010

English as a Second Language I: Grammar

3 Credits. 3 Periods.

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.

ESL011

ESL I - Listening & Speaking

3 Credits. 3 Periods.

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 (6) credits. Prerequisites: Appropriate ESL placement test score or ESL002.



ESL012

ESL I-Writing with Oral Practice

3 Credits. 3 Periods.

Emphasis on basic conventions of writing in English. Includes introduction to the alphabet, capitalization, punctuation, and simple sentence structure. May be repeated for a maximum of six (6) credits. Prerequisites: Approximate ESL placement test score or permission of instructor.

ESL013

Vocabulary for ESLI

1 Credits. 1 Periods.

Emphasis on the acquisition of basic English vocabulary including identifying and pronouncing words related to people, medical/dental care, occupations and other activities. May be repeated for a maximum of two (2) credits. Prerequisites: Appropriate ESL placement test score or permission of instructor.

ESL014

Idiomatic English for ESL I

1 Credits. 1 Periods.

Study of idiomatic English for speakers of English as a Second Language(ESL). Emphasis on commonly misunderstood expressions. Includes practice on a computer or with audio tapes. May be repeated for a maximum of two (2) credits. Prerequisites: Appropriate ESL placement test score or permission of instructor.

ESL020

English as a Second Language II:

Grammar

3 Credits. 3 Periods.

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).

ESL021

ESL II - Listening & Speaking

3 Credits. 3 Periods.

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.

ESL022

ESL II-Writing with Oral Practice

Credits. 3 Periods.

Emphasis on basic writing skills, accompanied by recitation of short writings. Sentence patterns and introduction of paragraph writing. May be repeated for a maximum of six (6) credits. Prerequisites: ESL012 or appropriate ESL placement test score.

ESL030

English as a Second Language III:

Grammar

3 Credits. 3 Periods.

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).

ESL031

English as a Second Language III-Listening and Speaking

3 Credits. 3 Periods.

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.

ESL032

ESL III-Writing with Oral Practice

3 Credits. 3 Periods.

Emphasis on complex sentence patterns in writing and speech. Introduction to the prewriting and writing process in a college setting. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL course placement score, or a grade of C or better in ESL022, or permission of instructor.

ESL040

English as a Second Language IV:

Grammar

3 Credits. 3 Periods.

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).

ESL041

English as a Second Language IV: Listening and Speaking

3 Credits. 3 Periods.

Emphasis on academic skills. Listening to lectures, notetaking, 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.

ESL042

ESL IV - Writing with Oral Practice

3 Credits. 3 Periods.

Emphasis on paragraph writing and oral recitation of complex sentences and paragraphs. Introduction to the prewriting and writing process for short essays. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL course placement score, or a grade of C or better in ESL032, or permission of instructor.

ESL043

Vocabulary for ESLIV

1 Credits. 1 Periods.

Emphasis on the acquisition of basic English vocabulary including identifying and pronouncing words related to people, medical/dental care, occupations and other activities. May be repeated for a maximum of two (2) credits. Prerequisites: Appropriate ESL placement test score or permission of instructor.

ESL044

Idiomatic English for ESL IV

1 Credits. 1 Periods.

Study of idiomatic English for speakers of English as a Second Language(ESL). Emphasis on commonly misunderstood expressions. Includes practice on a computer or with audio tapes. May be repeated for a maximum of two (2) credits. Prerequisites: Appropriate ESL placement test score or permission of instructor.



ESL050

Review Grammar For ESL

3 Credits. 3 Periods.

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 course placement score, or a grade of C or better in ESL040, or permission of instructor.

ESL051

Pronunciation Improvement for ESL Speakers

3 Credits. 3 Periods.

Individualized pronunciation practice and drills for English as a second language (ESL) speakers. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL course placement score, or a grade of C or better in (ESL020 or ESL021 or ESL022 or RDG020), or permission of instructor.

ESL071

Advanced Pronunciation and Oral Reading for ESL

3 Credits. 3 Periods.

Pronunciation practice and review, spelling of Pronunciation practice and review, spelling of English sounds, and oral reading for stress and intonation patterns in English. Prerequisites: A grade of C or better in ESL051, or permission of instructor.

Course Note: May be repeated for a total of six (6) credit hours.

ENGLISH HUMANITIES

ENH110

Introduction to Literature

3 Credits. 3 Periods.

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.

ENH112

Chicano Literature

3 Credits. 3 Periods.

Introduction to the works of Mexican-American writers of the Southwest. Samples poetry, fiction, and essays viewed in their relationship to American cultural heritage and to contemporary culture. Prerequisites: None.

ENH114

African-American Literature

3 Credits.
3 Periods.

Survey of major African-American writers from Colonial period through the present; analysis of trends and movements within African-American literary history; analysis of literary types and selected works. Prerequisites: None.

ENH117

Rap Literature: The Oral Tradition

3 Credits. 3 Periods.

Survey of selected rap poetry looking at the oral tradition of Africa, the Caribbean, and the United States as precursors to East Coast, West Coast, Southern, North Central, and International development of the genre. Investigation of cultural environments, historical events, competitions (the "battles"), artists' biographies, and parallel art forms as they relate to the analysis of the genre and its themes. Prerequisites: None.

ENH120

The Literature of Science Fiction

3 Credits. 3 Periods.

Surveys the last two hundred years of Science Fiction literature and various other media. Investigates the similarities between Science Fiction and other imaginative literatures and media. Examines the Science Fiction genre, sub genres, and themes from a variety of perspectives, as well as social issues. Prerequisites: None.

ENH201

World Literature Through the Renaissance

3 Credits. 3 Periods.

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

World Literature After the

Renaissance

3 Credits. 3 Periods.

Includes a selection of the world's literary masterpieces from the Renaissance to modern times. Prerequisites: None.

ENH205

Asian American Literature

3 Credits. 3 Periods.

Survey of major Asian American writers. Examines literary types and selected works in their relationship to American cultural heritage and to contemporary culture. Prerequisites: ENG101 or ENG107.

ENH212

The Mexican American Novel

3 Credits. 3 Periods.

A study of the social, historical, and cultural backgrounds as well as the form and content of the Mexican American novel. Prerequisites: ENG101. ENH112 suggested but not required. Cross-References: CCS212

ENH221

Survey of English Literature Before 1800

3 Credits. 3 Periods.

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.

ENH230

Introduction To Shakespeare

3 Credits. 3 Periods.

Introduces Shakespeare the playwright, the sonneteer, the linguist, and the citizen of the 17th century. Considers the major tragedies, comedies, histories, and sonnets; focuses on the use of language; and connects the writer to the time. Some emphasis on Shakespeare's influence through the centuries, noting parallels between the late 16th century and the late 20th century. Prerequisites: None.

ENH241

American Literature Before 1860

3 Credits. 3 Periods.

Includes literature written prior to 1860 in the United States. Prerequisites: None.

ENH242

American Literature After 1860

3 Credits.

3 Periods.

Includes literature written after 1860 in the United States. Prerequisites: None.

ENH251

Mythology

3 Credits.

3 Periods

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

Literature and Film

3 Credits. 3 Periods.

Presents works of literature and their film versions and analyzes distinguishing techniques of each medium. Prerequisites: ENG101 or ENG107 or equivalent.



ENH256

Shakespeare on Film

3 Credits. 3 Periods.

Presents cinematic versions of Shakespeare's plays and explains and analyzes how the dramatist's major tragedies, comedies, histories and romances have been presented on film. Prerequisites: None

ENH259

American Indian Literature

3 Credits. 3 Periods.

Contemporary American Indian forms of literary expression. Selected oral traditions of American Indians. Trends and movements within American Indian literary history. Prerequisites: None.

ENH275

Modern Fiction

3 Credits. 3 Periods. Includes nove and short stories of modern writers which reflect significant themes of our time. Prerequisites: None.

ENH284

19th Century Women Writers

3 Credits. 3 Periods.

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. Cross-Reference: WST284

ENH285

Contemporary Women Writers

3 Credits. 3 Periods.

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. Cross-reference: WST285.

ENH291

Children's Literature

3 Credits. 3 Periods.

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. Cross-reference: EDU291.

ENH294

Multicultural Folktales

3 Credits. 3 Periods.

Study of multicultural folktales, exploring the impact of the oral tradition in American society and showing classroom applications.

Prerequisites: None. Cross-References: EDU294, STO294

FACILITIES MANAGEMENT

FAC101

Refrigeration Components and Applications I

2 Credits. 2 Periods.

Major components of refrigeration systems. Properties of refrigerants and piping practices. Prerequisites: None. Corequisites: FAC/HVA101LL or permission of instructor. Cross-References: HVA101

FAC101LL

Refrigeration Applications and Components I Lab

1 Credits. 3 Periods.

Servicing refrigeration units. Includes soldering tubing, installing/removing manifold gauge set, evacuating and charging the system. Emphasis on safety. Prerequisites: None. Corequisites: FAC/HVA101 or permission of instructor. Cross-References: HVA101LL

FAC104

Introduction to Facilities Management

3 Credits. 3 Periods.

Survey of the total responsibilities of the facilities organization in manufacturing, business, and government. Includes methods for coordinating the physical workplace with the people and work of the organization. Prerequisites: None.

FAC105

Electricity for Industry

3 Credits. 3 Periods.

Electricity related to industrial applications. Operation of and safety protocols for the use of electrical meters. Electrical loads calculations and evaluation of air conditioning power sources. Single-phase motors, motor resistance and motor terminals. Function of electro-magnetic solenoids and transformers. National Electric Code. Prerequisites: None. Corequisites: ELC/FAC/HVA105LL or permission of instructor. Cross-References: HVA105, ELC105

FAC105LL

Electricity for Industry Lab

1 Credits. 3 Periods.

Diagramming and assembling series circuits, parallel circuits and wiring relays, thermostats, switches and lights. Electrical readings on compressors. Emphasis on safety. Prerequisites: None. Corequisites: ELC/FAC/HVA105 or permission of instructor. Cross-References: ELC105LL, HVA105LL

FAC115

Motors, Controls and Wiring

Diagrams

3 Credits. 3 Periods.

Principles of three-phase motors. Wye and Delta wiring. Calculation of motor current draw. Sequence of operation, wiring diagram and electrical components associated with industrial equipment. Procedures for evaluating electrical problems. Safety stressed. Prerequisites: ELC/FAC/HVA105, or permission of department, or ELC/FAC/HVA105LL, or permission of department. Corequisites: ELC/FAC/HVA115LL or permission of department. Cross-References: ELC115, HVA115

FAC115LL

Motors, Controls and Wiring Diagrams Lab

1 Credits. 3 Periods.

Drawing wiring diagrams, wiring systems and checking electrical circuits. Troubleshooting electrical problems of three-phase motors and controls. Safety stressed. Prerequisites: ELC/FAC/HVA105, or permission of department, or ELC/FAC/HVA105LL, or permission of department. Corequisites: ELC/FAC/HVA115 or permission of department. Cross-References: ELC115LL, HVA115LL

FAC185

Electro-Mechanical Devices

4 Credits. 6 Periods.

Concepts, principles, maintenance, and troubleshooting of mechanical and electromechanical devices; mechanical alignment of shafts, pillowblocks, gears, and couplers on mechanical breadboard; transmission devices including lead screws, linkages, worm and worm wheels, gear trains, speed reducers, chain drives, and belt drives; principles of lubrication; operation of dc(direct current), ac(alternating current), and stepping motors; application of tachometers, stepping motors, linear actuators, relays, solenoids, switches, contactors, starters, and fuses; selection and specification of components from manufacturer's catalogs. Prerequisites: ELE101, or ELT101, or GTC108, or equivalent, or permission of instructor. Corequisites: None. ELE100 or ELT100 suggested but not required. Cross-References: GTC185, HVA185



FAC186

Electro-Mechanical Devices

3 Credits. 5 Periods.

Concepts, principles, maintenance, and troubleshooting of mechanical and electromechanical devices. Mechanical alignment of shafts, pillow blocks, gears, and couplers on mechanical equipment. Bearings removal and installation. Installation and troubleshooting of pump seals. Vernier calipers, micrometers, tachometers. Use and operation of air flow hoods for air balancing. Belt drive systems and set up and operation of variable frequency drives. Cooling tower water treatment controls and chemical additives. Prerequisites: (FAC/HVA101, FAC/HVA101LL, FAC/ELC/ HVA105 and FAC/ELC/HVA105LL or equivalent), or permission of instructor. Cross-References: HVA186

FAC210

Facilities Air Conditioning Systems

3 Credits. 3 Periods.

Fundamental principles of air conditioning including all-air, all-water (hydronic) and airwater combination systems. Overview of the physical principles, including air distribution systems and heating and cooling load calculation. System components and application theory for boilers, chillers, pumps, fans, and cooling towers. Theory and application of central air conditioning systems, air cleaning and humidification devices, pressure boosting, heat storage, expansion and pressurization equipment. Properties of water, pressure distribution in hydronic systems, flow in pipes, pressure drop/head loss, pump applications and pressurization of open and closed hydronic systems. Fundamentals of low and high temperature water systems. Prerequisites: (FAC/HVA101, HVA112 and ELC/FAC/ HVA115) or permission of department. Corequisites: FAC/HVA210LL or permission of department. Cross-References: HVA210

FAC210LL

Facilities Air Conditioning Systems Lab

1 Credits. 3 Periods.

Routine procedures on operational central forced-air conditioning systems and hydronic pumping systems. Components and function of large chillers, cooling towers, hot water boilers, associated piping, pumps and constant volume and variable air volume (VAV) air handlers. Perform pump sizing calculations and measurements. Perform measurements and calculations of pressure and air velocity in ducts. Apply the principles of psychometrics to central air handling systems. Evaluation of the energy

balance of components and systems. Personal and equipment safety. Prerequisites: (FAC/HVA101, HVA112 and ELC/FAC/HVA115), or permission of department. Corequisites: FAC/HVA210 or permission of department. Cross-References: HVA210LL.

FAC213

Controls

3 Credits. 3 Periods.

Control theory and terminology, pneumatics, electrical, and electronic control devices, flow control devices, elementary and advanced control systems. Electric and electronic control systems, programmable logic controls, and facilities management systems. Prerequisites: None. Cross-References: HVA213

FAC214

Instrumentation

3 Credits. 3 Periods.

Process and terms used in instrumentation, methods of heat transfer, calculations for heat temperature, and heat transfer. Measuring and calculating pressure, fluid flow, measuring humidity, control action, and instrumentation symbols. Prerequisites: None. Cross-References: HVA214

FAC220

Controls and Instrumentation

3 Credits. 3 Periods.

Control theory and terminology, pneumatics, electrical, and electronic control devices, flow control devices, elementary and advanced control systems. Electric and electronic control systems, programmable logic controls, and facilities management systems. Process and terms used in instrumentation, methods of heat transfer, calculations for heat temperature, and heat transfer. Measuring and calculating pressure, fluid flow, measuring humidity, control action, and instrumentation symbols. Prerequisites: FAC/HVA210 or permission of department. Corequisites: FAC/HVA220LL or permission of department. Cross-References: HVA220

FAC220LL

Controls and Instrumentation Lab

1 Credits. 3 Periods.

Calibrating pneumatic electrical, and electronic control devices. Commissioning and troubleshooting elementary and advanced control systems. Programming and tuning direct digital control (DDC) devices. Installing, testing and calibration control and instrumentation sensors. Developing and testing sequences of operation for control loops. Recording and analyzing data from facility management systems. Prerequisites:

FAC/HVA210 or permission of department. Corequisites: FAC/HVA220 or permission of department. Cross-References: HVA220LL

FRENCH

FRE101

Elementary French I

4 Credits. 4 Periods.

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

Elementary French II

4 Credits. 4 Periods.

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.

FRE115

Beginning French Conversation I

3 Credits. 3 Periods.

Conversational French. Basic sentence structure, pronunciation and vocabulary necessary to develop speaking ability in French. Designed for students seeking speaking and listening abilities with little emphasis on grammar. Prerequisites: None.

FRE116

Beginning French Conversation II

3 Credits. 3 Periods.

Continued development of speaking and listening skills for effective communication in French. Prerequisites: FRE115 or equivalent.

FIRE SCIENCE TECHNOLOGY

FSC113

Introduction to Fire Suppression

3 Credits. 3 Periods.

Characteristics and behavior of fire, fire hazard properties of ordinary materials, extinguishing agents, fire suppression organization and equipment, basic fire fighting tactics, and public relations as affected by fire suppression. Prerequisites: None.

FSC202

Supervisory Training for Firefighters

3 Credits. 3 Periods.

Administrative methods applied to the fire service, departmental organization, and personnel management. Includes fire alarm signaling systems, fire service planning, and relationships with other city departments. Prerequisites: None.

FSC204

Firefighting Tactics and Strategy

3 Credits. 3 Periods.

Methods of coordinating personnel, equipment, and apparatus on the fireground. Practical methods of controlling and extinguishing structural and other types of fires. Includes simulation exercises. Prerequisites: FSC113, or permission of instructor, or equivalent

FSC208

Firefighter Safety and Building Construction

3 Credits. 3 Periods.

Actions necessary to provide for the safety of firefighters operating on the fireground. Effects that fire and heat may have on various types of building construction resulting in the loss of structural integrity. Includes signs and symptoms of structural damage. Prerequisites: FSC113, or permission of instructor, or equivalent

FOOD AND NUTRITION

FON100

Introductory Nutrition

3 Credits. 3 Periods.

Basic nutrition concepts for health and fitness. Emphasizes current dietary recommendations for maximizing well-being and minimizing risk of chronic disease. Focuses on use of tables, food guides, and guidelines for making healthy food choices. Includes unique nutrition needs for selected stages of the lifecycle, methods for evaluating credibility of nutritional 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 other preprofessional majors. May not be taken for credit if credit has been earned in FON100AA and/or FON100AC. Prerequisites: None.

FON100AD

Nutrition Sports and Physical Activity

1 Credits. 1 Periods.

Principles of nutrition applied to fitness, exercise, and sports. Dietary fundamentals as applied to body fuels, hydration, and other unique needs for exercise and sports. Includes dietary guidelines for weight or endurance training, glycogen loading, the pregame meal, and glycogen recovery. Emphasis on maximizing fitness, performance, and safety. Prerequisites: FON100AA, or equivalent, or permission of instructor.

FON102

Menu Planning

2 Credits. 2 Periods.

Principles and techniques of menu planning for food service operations where food is served in quantity; includes applications for health care institutions, commercial kitchens, school cafeterias, and industrial facilities. Prerequisites: None. Cross-References: HRM102

FON118

Commercial Baking Techniques

3 Credits 5 Periods.

Principles and techniques for preparation, storage, and serving of bakery products. Includes breads, cakes, pies, pastry, cookies, fillings, and icings. Emphasis on practical experiences in a commercial bakery. Prerequisites: None.

FON119

Catering - Planning and Production

1 Credits 3 Periods.

Focuses on the basic steps of the catering process in a commercial food setting. Includes a review of safety and sanitation principles. Emphasizes practical experiences in booking and record keeping, planning, ordering, production, and service set-up and break-down for both in-house and off-premise catered events. Prerequisites: FON117 or FON180.

FON137

Nutrition Supplements

2 Credits 2 Periods.

Discussion of supplements and their effects on metabolic enhancement. The course will be divided into three major sections:anabolic, catabolic, and energy-producing agents. Addresses current supplements on the market in order to advise the general public. Prerequisites: FON100 or permission of instructor.

FON144

Gourmet Foods

3 Credits 4 Periods.

The art and appreciation of gourmet foods, accompanied by preparation and appropriate services. Prerequisites: None. Cross-References: HRM144

FON179

Garde Manger

3 Credits. 5 Periods.

Prepares students for employment in garde manger pantry positions in restaurants and resorts. Includes costing out and ordering food products; food and safety factors; preparing and garnishing pantry product. Emphasis on classical food presentation. Prerequisites: None.

FON180

Principles and Skills for Professional Cooking

3 Credits. 5 Periods. Introductory principles and skills for professional cooking. Introduces organizational structure of kitchen staff in different types of kitchens. Includes basic principles of safety and sanitation, equipment and utensil use, French cooking terms, recipe use, measuring techniques, identification and use of seasoning agents, and basic cooking methods applied to stocks, sauces and soups, vegetables, starches, entrees, and eggs. Emphasis on practical experiences in a commercial kitchen. Prerequisites: None.

FON182

American Regional Cuisine

3 Credits. 5 Periods.

American regional food preparation applied to restaurants. Review principles of sanitation and safety. Explores history and customs, serving styles, and preparation techniques of foods unique to selected American regions. Emphasis on practical cooking experiences in a restaurant setting. American regions to include, but not limited to: Southern, Cajun/Creole, New England, Mid-West, and Pacific Coast. Prerequisites: None.

FON183

International Cuisine

3 Credits. 5 Periods.

Gourmet international food preparation applied to restaurants. Review principles of sanitation and safety. Explores history and customs, serving styles, and preparation techniques of foods unique to selected international cultures. Emphasis on practical cooking experiences in a restaurant kitchen. Cultures to include, but not limited to: Italian, German, Oriental, Middle Eastern, and Spanish. Prerequisites: None.

FON190

Professional Cooking Practicum

7 Credits. 19 Periods.

Preparation of hot and cold foods in a commercial food service operation; experience in volume food production preparing salads, soups, stocks, sauces, entrees, starches, and vegetables; designed to develop knowledge and skills necessary to cook in a variety of commercial kitchens. Prerequisites: FON104, FON180, or departmental approval.



FON218

Commercial Baking; Classical Desserts

3 Credits. 5 Periods.

Preparation of hot and cold foods in a commercial food service operation; experience in volume food production preparing salads, soups, stocks, sauces, entrees, starches, and vegetables; designed to develop knowledge and skills necessary to cook in a variety of commercial kitchens. Prerequisites: FON104, FON180, or departmental approval.

FON230

Nutrition for Special Populations

3 Credits. 3 Periods.

Managing and understanding the nutrition needs of special populations. These populations include people who are diagnosed with heart disease, diabetes, women who are pregnant, children who are suffering from obesity, and senior adults. Prerequisites: FON100 or permission of instructor.

FON241 Principles of Human Nutrition

3 Credits. 3 Periods.

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.

FON247

Weight Management Theory

3 Credits. 3 Periods.

Comprehensive study of genetic, physiological, psychological, metabolic, and environmental influences on body weight. In- depth study of the theories of body weight with emphasis on distinguishing between behavioral and biological approaches. Focus on discovering successful healthful long-term weight management strategies. Prerequisites: FON100 or FON241 or permission of instructor.

GENERAL BUSINESS

GBS110

Human Relations in Business and Industry

3 Credits. 3 Periods.

Exploration of fundamental theories and concepts of human relations in business and industry. Particular emphasis is placed on developing effective interpersonal relationships and leadership skills within an organization. Prerequisites: None.

GBS131

Business Calculations

3 Credits. 3 Periods.

Review of basic arithmetic and application of mathematics to business problems, includes percentage, interest, discount, and markups. Prerequisites: None.

GBS151

Introduction to Business

3 Credits. 3 Periods.

Characteristics and activities of current local, national, and international business. An overview of economics, marketing, management and finance. Prerequisites: None.

GBS161

Mathematics of Business

3 Credits. 3 Periods.

Applications of basic financial mathematics; includes interest, financial statement, stocks and bonds, and international business. Prerequisites: GBS131, or MAT102, or permission of department/division.

GBS205

Legal, Ethical, and Regulatory Issues in Business

3 Credits. 3 Periods.

Legal theories, ethical issues and regulatory climate affecting business policies and decisions. Prerequisites: None.

GBS220

Quantitative Methods in Business

3 Credits. 3 Periods.

Business applications of quantitative optimization methods in operations management decisions. Prerequisites: (Grade of "C" or better in MAT150, or MAT151, or MAT152) or equivalent, or satisfactory score on district placement exam.

GBS221

Business Statistics

3 Credits. 3 Periods.

Business applications of descriptive and inferential statistics, measurement of relationships, and statistical process

management. Includes the use of spreadsheet software for business statistical analysis. Prerequisites: Grade of "C" or better in GBS220.

GBS233

Business Communication

3 Credits. 3 Periods.

Internal and external business communications, including verbal and nonverbal techniques. Prerequisites: ENG101 or ENG107 with grade of "C" or better, or permission of department/division.

GENERAL TECHNOLOGY

GTC106

Industrial Safety

2 Credits. 2 Periods.

Safety, health management and accident prevention in industrial work environment. Role of OSHA act, materials handling, electrical safety, machine safety, first response to fire and medical emergencies, safety signs and color codes, recognition of safety and health hazards accident prevention, and management's responsibilities. Prerequisites: None. Cross-References: FAC106, MIT106, OSH106

GTC107

Technical Mathematics I

3 Credits. 3 Periods.

Mathematical principles to include basic operations, significant digits, exponents, square roots and order of operations. Solve problems using arithmetic, signed numbers, percentages, fractions, exponents, and square root. Use of hand held calculator. Technology related problems. Recommended for all technology students except electronics. Prerequisites: None. Cross-References: MET107

GTC108

Technical Mathematics II

3 Credits. 3 Periods.

Fundamental algebraic operations. Problem solving involving metric measurement, gears, pulleys, simple mechanism problems. Areas and volume calculations of geometric figures. Essentials of trigonometry for solving right and oblique triangles. Prerequisites: GTC/MET107 or permission of instructor. Cross-References: MET108.

GTC181

Introduction to Fluid Power

3 Credits. 6 Periods.

Develops an understanding of the fundamental laws and principles of fluids together with consideration of such fluid devices as valves, cylinders, pumps, sizes of lines, and simple hookups. Includes both hydraulics and pneumatics. Prerequisites: ELE101 or equivalent.



GTC216

Properties of Materials

3 Credits. 3 Periods.

Study of manufacturing properties of materials, the behavior of materials under load, stress and strain and torsion and qualities of materials other than strength. Prerequisites: None.

GEOLOGY

GLG101

Intro to Geology I: Physical Lecture

3 Credits. 3 Periods.

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

Introduction to Geology II - Historical Lecture

3 Credits. 3 Periods.

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

Introduction to Geology I: Physical Lab

1 Credit. 3 Periods. May accompany GLG101. Study of common rock-forming minerals, rocks, and

maps. Prerequisites: None.

GLG104

Introduction to Geology II - Historical Lab

1 Credit. 3 Periods.

May accompany GLG102. Study of geological structures and rocks, fossils, and geologic maps. May require field trips. Prerequisites: None.

GLG110

Geological Disasters and the

Environment

3 Credits. 3 Periods.

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

Geological Disasters and the Environment Lab

1 Credit. 3 Periods.

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.

HEALTH CORE CURRICULUM

HCC109

CPR for Health Care Provider

.5 Credit. .5 Period.

Current American Heart Association standards for one and two rescuer cardiopulmonary resuscitation (CPR) and obstructed airway procedures on the adult, infant, and pediatric victim. Use of automated, external defibrillation and resuscitation equipment. Prerequisites: None.

Cross-References: RES109

HCC130AA

Health Care Today

.5 Credit. .5 Period.

Overview of current health care professions including career and labor market information. Health care delivery systems, third-party payers, and facility ownership. Health organization structure, patient rights and quality care. Prerequisites: None.

HCC130AB

Workplace Behavior in Health Care

.5 Credit. .5 Period.

Health care and life values. Definition and importance of values, ethics, and essential behaviors in the workplace. Worker rights and responsibilities. Prerequisites: None.

HCC130AC

Personal Wellness and Safety

.5 Credit. .5 Period.

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

HCC130AD

Communication and Teamwork in the Health Care Organizations

.5 Credit. .5 Period.

Emphasis on basic communication skills which facilitate team work in the health care setting. Focus on development of personal communication skills and an understanding of how effective communication skills promote team work. Focus on intercultural communication strategies. Prerequisites: None.

HCC130AE

Legal Issues in Health Care

.5 Credit. .5 Period.

Basic legal terminology used in the health care setting. Legal concepts related to health care employment, medical documentation, and communication. Introduction to regulatory requirements in health care. Prerequisites: None.

HCC130AF

Decision Making in the Health Care Setting

.5 Credit. .5 Period.

Principles and application of the decision making model. Description and application of ethics and process improvement and the relationship of both to the decision making model. Prerequisites: None.

HCC146

Common Medical Terminology for Health Care Workers

2 Credits. 2 Periods.

Common medical terms used in health care. Body systems approach to terms related to structures, functions, diseases, procedures, and diagnostic tests. Building and analyzing terms using word parts. Medical abbreviations and symbols and term spelling. Prerequisites: None.

HEATLH SCIENCE

HES100

Healthful Living

3 Credits. 3 Periods.

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

First Aid/Cardiopulmonary Resuscitation

3 Credits. 3 Periods.

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

Prevention and Treatment of Athletic Injuries

3 Credits. 3 Periods.

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.

HEATING, VENTILATING & AIR CONDITIONING

HVA112

Heating and Air Conditioning

3 Credits. 3 Periods.

Types and styles of cooling equipment and duct systems. Methods of supplying air to spaces for heating and cooling. Human comfort factors related to heating and cooling. Psychrometric terminology and applications. Operation, control, and metering devices for heat pumps and package air conditioning systems. Basic heating and ventilating equipment including performance measurement of heating and combustion equipment. Procedures used with DX cooling and gas-fired and electric heating equipment. Troubleshooting techniques, local gas and electric codes, and safety precautions. Prerequisites: HVA103, HVA/ELC/FAC105. Corequisites: HVA112LL.

HVA112LL

Heating and Air Conditioning Lab

1 Credits. 1 Periods.

Application of routine procedures related to heating and air conditioning. Includes identification of air conditioning and heating system components, evaluation of energy balance, identification of electrical malfunctions, and proper refrigerant handling procedures. Emphasis on safety. Prerequisites: HVA103, HVA/ELC/FAC105. Corequisites: HVA112.

HVA143

Load Calculation and Duct Design

3 Credits. 3 Periods.

Heat transmission factors calculations for specific types and combinations of construction materials. Application of design factors for cooling and heating load determination. Methods for residential applications. Design of residential and light commercial ducting systems. Calculation of duct size for constant and variable air flow, system operating characteristics and air measuring devices. Protocols to test, adjust,

and balance an air distribution system. Prerequisites: None.

HVA234

HVAC and Refrigeration Installation

3 Credits. 3 Periods.

Industry codes used by the trades. Pipe and duct installation practices. Procedure for the installation of heating, ventilation, air conditioning and refrigeration (HVAC) equipment. Calculation of roof pitch and wire size for HVAC equipment. Start-up procedures for HVAC equipment. Prerequisites: ELC/FAC/HVA115 or permission of instructor. Corequisites: HVA234LL.

HVA234LL

HVAC and Refrigeration Installation Lab

1 Credits. 3 Periods.

Practices and application for the installation of residential and commercial refrigeration and air conditioning equipment. Actual installation problems used as the basis of discussion and code application. Prerequisites: ELC/FAC/HVA115 or permission of instructor. Corequisites: HVA234.

HVA240

Psychrometrics

2 Credits. 2 Periods.

Composition of air, particle pressures of dry air and water vapor, terms and symbols associated with psychrometrics. Psychrometric chart, processes, calculations, mixed air conditions, and solving of actual air conditioning and refrigeration problems. Prerequisites: None.

HISTORY

HIS100

History of Western Civilization to the Middle Ages

3 Credits. 3 Periods.

Survey of the origin and development of Western civilization and its institutions from prehistory through the Ancient World and the Middle Ages. Prerequisites: None.

HIS101

History of Western Civilization Middle Ages to 1789

3 Credits. 3 Periods.

Survey of origin and development of Western civilization and its institutions from the Renaissance and Reformation through Age of Enlightenment. Prerequisites: None.

HIS102

History of Western Civilization 1789 to Present

3 Credits. 3 Periods.

Survey of origin and development of Western civilization and its institutions from French Revolution through the present. Prerequisites: None.

HIS103

U.S. History to 1870

3 Credits. 3 Periods.

The political, economic, and social development of United States from Colonial through Reconstruction period. Prerequisites: None.

HIS104

U.S. History 1870 to Present

3 Credits. 3 Periods.

The political, economic, and social development of United States from Reconstruction period up to present time. Prerequisites: None.

HIS105

Arizona History

3 Credits. 3 Periods.

The prehistoric and contemporary Native American experience, Spanish colonial times, the Mexican National period, the U.S. federal territorial years, and Arizona's political and economic development during the twentieth century. Prerequisites: None.

HIS106

Southwest History

3 Credits. 3 Periods.

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.

HIS108

United States History 1945 to the Present

3 Credits. 3 Periods.

Survey of American history from 1945 to the present. Focuses on the political, social, economic and cultural history of the United States from the end of World War II to the present time. Includes domestic developments and foreign policy. Prerequisites: None.



HIS145

History of Mexico

3 Credits.
3 Periods.

Survey of the political, economic, and social forces which have shaped the development of Mexico from Pre-columbian times to the present. Prerequisites: None.

HIS203

African-American History I

3 Credits.
3 Periods.

History and cultural heritage of African-Americans from their beginnings in Ancient Africa through the experience of chattel slavery in the Americas to their eventual emancipation and participation in the American Civil War. Prerequisites: None.

HIS204

African-American History II

3 Credits. 3 Periods.

Multifaceted experiences of African-American people from the post-Civil War period (1865) to the present, including the collective struggle for freedom, equality, and self-determination in the United States. Prerequisites: HIS203.

HIS241

Latin American Civilization in the Colonial Period

3 Credits. 3 Periods.

A survey of the political, economic, and social forces which molded Latin American civilization in the Colonial Period. Prerequisites: None.

HIS273

US Experience in Vietnam 1945 - 1975

3 Credits. 3 Periods.

Survey of the US experience in Vietnam, 1945-1975, in view of political, economic, and social forces of the Cold War. Prerequisites: None.

HOTEL RESTAURANT MANAGEMENT

HRM110

Introduction to Hospitality and Tourism Management

3 Credits. 3 Periods.

A fundamental overview of the hotel, restaurant, and tourism segments of the hospitality and tourism industry. Provides an overview of the operational sectors of the industry and reviews management components and skills. Contains components to develop communication skills and a professional career plan. Prerequisites:

HRM120

Hotel Facility Management

3 Credits. 3 Periods.

Fundamental duties and responsibilities of hotel facility management. Emphasis on detail tasks, including personnel, cleaning, purchasing, equipment, textiles, maintenance, and safety. Examines basic systems for hotel facility management record keeping. Prerequisites: None.

HRM126

Food Service Cost Systems

2 Credits. 2 Periods.

Basic skills necessary to understand and utilize cost controls. Overview of systems for purchasing, storage, production control, and budgeting. Mechanical and mathematical details emphasized. Accounting process taught with aid of microcomputer. Introduction to standardized accounting software. Prerequisites: None.

HRM130

Guest Services Management

3 Credits. 3 Periods.

Examines organization and management of the hotel front office and guest service operations. Explores key front office functions and related systems and skills necessary to ensure guest satisfaction and efficient operations. Prerequisites: None.

HRM140

Food Production Concepts

3 Credits. 3 Periods.

Concepts related to preparation of hot foods, pantry, and bakery items for commercial kitchens. Emphasis on essential components and techniques of food production, food cost control, setting standards, ordering, and inventory. Prerequisites: None.

HRM220

Hospitality Managerial Accounting

3 Credits. 3 Periods.

Study of financial statement analysis, asset management, ratio analysis, analytical techniques, and investment decision making. Emphasis on planning, budgeting, and management decisions. Prerequisites: ACC211.

HRM244

Quality Sanitation Management

3 Credits. 3 Periods.

SSystems approach to answering public health concerns, reducing sanitation risks, and ensuring satisfaction for guests, staff members, and owners. Definition and implementation of sanitation quality, cost control, and risk reduction in a hospitality operation. Prerequisites: None.

HRM260

Hospitality Human Resource

Management

3 Credits. 3 Periods.

Examines concepts and applications of human resource management in the hospitality industry. Topics include recruitment, selection, training and evaluation. Emphasis on current management methods and productivity in the service environment. Prerequisites: GAM100/HRM110 or approval of instructor.

HRM270

Hospitality Marketing

3 Credits. 3 Periods.

Essential skills of defining a service market, developing a market plan, and directing personnel to follow market plan. Emphasis on marketing in the hospitality industry and understanding segmentation, positioning and promotion in that market. Prerequisites: None.

HRM275

Restaurant Management

3 Credits. 3 Periods.

Overview of restaurant industry with focus on the major segments. Emphasis on developing plans for: marketing, accounting system, staffing, training, menu development and cost controls for restaurant operation. Special emphasis on safety and sanitation, and legal regulations in the restaurant industry. Prerequisites: None.

HRM280

Hospitality and Tourism Law

3 Credits. 3 Periods.

Examines legal aspects of hotel, restaurant and tourism management. Uses case study approach to develop understanding of the laws and regulations governing guest relationships, contracts, employee relations, civil rights, alcoholic beverages, safety and product liability. Prerequisites: HRM110.

HRM296WA

Cooperative Education

1 Credits. 5 Periods.

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: Completion of at least twelve (12) college credits, minimum 2.6 grade point average, and be able to obtain a position related to student's academic or career goals (student's present job may qualify); or permission of instructor. Corequisites: Must be concurrently enrolled in at least one class which is related to student's major or career interest or with permission of the instructor.



HRM298AA Special Projects

1 Credit. 1 Period.

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 available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: Permission of Program Director or instructor.

HUMANITIES

HUM107

Humanities Through the Arts

3 Credits. 3 Periods.

Introduction to humanities including film, drama, music, literature, painting, sculpture, and architecture. Prerequisites: None.

HUM190AA-AD

Honors Forum

1 Credit. 1 Period.

Interdisciplinary studies of selected issues confronting the individual and society. Formal lectures followed by informal discussion with outstanding scholars and social leaders. Supplemented by readings and pre- and postforum discussion and critique. Varied content from module to module due to changing forum themes and issues. Prerequisites: Admission to the College Honors Program or Permission of the Instructor.

HUM120

Cultural Viewpoints in the Arts

3 Credits. 3 Periods.

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.

HUM209

Women and Films

3 Credits. 3 Periods.

Analysis of images of women in films from both historical and contemporary perspectives. Prerequisites: None. Cross-References: WST209

HUM213

Hispanic Film

3 Credits. 3 Periods.

Analysis of Hispanic film as art form and as social commentary. Prerequisites: None.

HUM250

Ideas and Values in the Humanities

3 Credits. 3 Periods.

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

Ideas and Values in the Humanities

3 Credits. 3 Periods.

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.

HUM292

The Art Of Storytelling

3 Credits. 3 Periods.

Explore the art and origin of storytelling. Provide a variety of storytelling techniques, styles and exercises to enhance the delivery of telling stories. Assist in the integration and application of storytelling to the learning environment in the classroom. Prerequisites: None. Cross-References: EDU292, STO292.

INFORMATION TECHNOLOGY SECURITY

ITS100

Information Security Awareness

1 Credits. 2 Periods.

Computer and network security topics, including network communication. Includes security policy, implementation of basic security measures, the importance of backups and the value of protecting intellectual property. Real-life examples and practical projects to reinforce the need for computer security. Prerequisites: None.

ITS11(

Information Security Fundamentals

4 Credits. 5 Periods.

Fundamental concepts of information technology security. Topics include authentication methods, access control, cryptography, Public Key Infrastructure (PKI), network attack and defense methods, hardening of operating systems and network devices, securing remote access and wireless technologies and securing infrastructures and topologies. Emphasis on hands-on labs in both the Windows and Linux environments. Builds on thorough understanding of Transmission Control Protocal/Internet Protocol (TCP/IP) and security concepts and Microsoft (MS) Windows and Linux Administration. Prerequisites: CIS126DA or CIS126DL and CNT150 and MST150DA or MST150XP or permission of instructor.

ITS120

Legal, Ethical and Regulatory Issues

3 Credits. 3 Periods.

Exploration of legal and ethical issues unique to information security. Analysis of professional ethical codes and their application to information security practitioners. Federal and state laws as they relate to information security. Prerequisites: ITS110 or permission of instructor.

ITS130

Operating System Security

3 Credits. 4 Periods.

In-depth examination of operating system security including Transmission Control Protocol/Data Encryption Standard (DES), Triple Data Encryption (3DES), Advanced Encryption Standard (AES), Pretty Good Privacy (PGP), and other encryption technologies (TCP/IP), Internet Protocol Security (IPSec) and Cisco Internetwork Operating Systems (IOS), Microsoft Windows, Linux and Mac OSX Security. Procedures to defend networks against attacks and recovery from network disasters. Web server security. Emphasis on hands-on labs in both the Windows and Linux environments. Builds on thorough understanding of Transmission Control Protocol/Internet Protocol (TCP/IP) and security concepts and MS Windows and Linux Administration. Prerequisites: ITS110 or permission of instructor.

ITS140

Network Security

3 Credits. 4 Periods.

Examination of techniques used to defend network security. Design and implementation of devices including firewalls and Intrusion Detection Systems (IDSs) and Virtual Private Networks (VPNs). Risk analysis and security policies methodologies. Emphasis on hands-on labs in both the Windows and Linux environments. Builds on thorough understanding of Transmission Control Protocol/Internet Protocol (TCP/IP) and security concepts and MS Windows and Linux Administration. Prerequisites: (ITS110 and ITS130) or permission of instructor.

ITS150

Building Trusted Networks in the Enterprise

3 Credits. 4 Periods.

Design of a trusted network to secure electronic transactions. Techniques to secure electronic transactions to include cryptography, digital signatures, digital certificates and strong authentication. Computer forensics techniques and legislative issues. Emphasis on hands-on labs in both the Windows and Linux environments. Builds on thorough understanding of Transmission Control Protocol/Internet Protocol (TCP/IP) and security concepts and MS Windows and Linux Administration. Prerequisites: ITS110, ITS130, and ITS140, or permission of instructor.

ITS160

Managing Trusted Networks in the Enterprise

3 Credits. 4 Periods.

Establishment of trusted networks to ensure enterprise security. Techniques for planning and implementation of trusted networks including secure Wireless LANs (WLANs) and secure email. Emphasis on hands-on labs in both Windows and Linux environments. Builds on thorough understanding of Transmission Control Protocol/ Internet Protocol (TCP/IP) and security concepts and MS Windows and Linux Administration. Prerequisites: ITS110, ITS130, ITS140 and ITS150 or permission of instructor.

ITS170

Information Security Policy Development

1 Credits. 1 Periods.

Components required to plan, develop and write information security policies. Policy development processes and the relationship between security and policy directions. Emphasis on writing effective information security policies in a governmental or corporate setting. Prerequisites: None.

ITS171

Information Security Risk Management

1 Credits. 1 Periods.

Examination and assessment of risk management in an information technology environment. Identification and valuation of organizational assets. Risk identification to include types of threats and exposures to loss. Risk mitigation techniques, documentation methods and regulatory requirements. Prerequisites: ITS110.

ITS172

Viruses and Other Malicious

Software

1 Credits. 2 Periods.

Spyware, adware, viruses, worms and

trojans. Available tools for identifying and removing malicious software. Techniques for analyzing the behavior of malicious software. Methods of infection and prevention of infection. Prerequisites: None.

ITS230

Deploying Snort Intrusion Detection Systems (IDS)

3 Credits. 4 Periods.

Intrusion Detection System (IDS). Examination of network intrusion detection concepts, principles and practices. Study of the mechanics and behaviors of Transmission Control Protocol/Internet Protocol (TCP/IP). Creation of filters and rules for network monitoring. Analysis of packet structure. Evaluation of intrusion detection system architectures. Detection and analysis of scans, vulnerabilities, exploits, and attacks. Identification of Architectural countermeasures. considerations for intrusion detection systems. Prerequisites: ITS110 or permission of instructor.

ITS231

Router Hardening

1 Credits. 2 Periods.

IThe role of routers in communication networks. Device specific threats and vulnerabilities. Strategies to harden routers to protect networks. Includes standardsbased and proprietary protocols. Prerequisites: CNT150 or permission of the instructor.

ITS232

Laver 2 Attacks and Defenses

3 Credits. 4 Periods.

Security issues associated with Layer 2, the data link layer, of the seven-layer Open Systems Interconnection (OSI) model. Countermeasures and security best practices to mitigate Layer 2 attacks applied to Ethernet networking environments. Prerequisites: CNT160 and (ITS110 or CIS270) or permission of instructor.

TS233

Wireless Network Security

3 Credits. 4 Periods.

Advanced concepts of securing wireless (802.11) communications. Auditing tools, Radio Frequency (RF) jamming and Wired Equivalent Privacy (WEP) decryption tools. Policies for implementing secure Wireless Local Area Networks (WLANs) including baselines, WLAN auditing and threat monitoring and responses. The role of encryption and Virtual Private Networks (VPNs), 802.11i and Wi-Fi Protected Access (WPA) as well as network segmentation and

WLAN user authentication. Prerequisites: CNT186 and (ITS110 or CIS270) or permission of instructor.

ITS290

Computer Security Incident

Response

3 Credits. 3 Periods.

Study of computer security incidents and how to respond to those incidents. Examination of frameworks for developing response strategies. Development and presentation of an incident response plan. Prerequisites: BPC170 and ITS110 or permission of instructor.

ITS291

Computer Forensics Foundations

4 Credits. 5 Periods.

Development of foundational computer forensic skills. Introduction to preserving, identifying, extracting, interpreting, and documenting computer data as part of a forensically sound analysis. Examination of the physical and logical structure of hard drives. Study of the logical structure of Windows-based file systems and common applications. Introduction to the logical structure of Unix/Linux-based file systems and common applications of commercial forensic tools. Prerequisites: BPC170 and ITS110 or permission of instructor.

ITS292

Advanced Computer Forensics

4 Credits. 5 Periods.

Advanced computer forensics analysis techniques with commercial tools. Introduction to open-source forensic tools. Emphasis on data recovery from complex applications and media types. Study of the logical structure of Unix/Linux-based file systems. Advanced search techniques. Analysis of unallocated space, compound files, and NTFS artifacts. Prerequisites: ITS291 or permission of instructor.

ITS295AA

Special Topics in Information Security

1 Credits. 2 Periods.

Exploration of special topics in Information Security. Includes both theoretical and practical aspects of the selected topic. Prerequisites: Completion of Information Security Technology certificate program or permission of instructor.



ITS295AB

Special Topics in Information Security

2 Credits. 3 Periods.

Advanced level seminar in Information Security. Focuses on both the theoretical and practical aspects of selected Information Security topics. Prerequisites: Completion of Information Security Technology certificate program or permission of instructor.

ITS295AC

Special Topics in Information Security

3 Credits. 4 Periods.

Advanced level seminar in Information Security. Focuses on both the theoretical and practical aspects of selected Information Security topics. Research methods in specific Information Security disciplines. Prerequisites: Completion of Information Security Technology certificate program or permission of instructor.

MANAGEMENT

MGT101

Techniques of Supervision

3 Credits. 3 Periods.

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.

MGT175

Business Organization and Management

3 Credits. 3 Periods.

Covers basic principles of managing quality and performance in organizations. Covers management functions: planning, organizing, leading, and controlling. Emphasizes continual improvement, ethics, and social responsibility. Prerequisites: None.

MGT179

Utilizing the Human Resources Department

3 Credits. 3 Periods.

Provides the opportunity to learn how to appropriately utilize the human resources department within an organization in order to improve job performance. Topics include staffing, training and development, manpower planning, compensation and benefits, federal labor laws and why people seek outside representation. Prerequisites: None.

MGT229

Management and Leadership I

3 Credits. 3 Periods.

Covers management concepts and applications for business, industry, and government organizations. Prerequisites: None.

MGT251

Human Relations in Business

3 Credits. 3 Periods.

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

Owning and Operating a Small Business

3 Credits. 3 Periods.

Starting, organizing, and operating a small business, including location, finance management processes, advertisement and promotion, credit, inventory control and ethics. Prerequisites: None.

MGT276

Personnel/Human Resources

Management

3 Credits. 3 Periods.

Human resource planning, staffing, training, compensating, and appraising employees in labor management relationships. Prerequisites: None. MGT101, or MGT175, or MGT229 suggested but not required.

MARKETING

MKT101

Introduction to Public Relations

3 Credits. 3 Periods.

Emphasizes public relations techniques used both within and outside the business organization, including operation of a PR counseling firm. Prerequisites: None.

MKT268

Merchandising

3 Credits. 3 Periods.

Surveys structure and operation of retail organizations. Emphasizes merchandising to include price, location, time promotion and quantity. Prerequisites: None. MKT271 suggested but not required.

MKT271

Principles of Marketing

3 Credits. 3 Periods.

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.

MANUFACTURING TECHNOLOGY

MET100AA

Tool Room I: Introduction to Machine Processes

2 Credits. 2 Periods.

Safe practices in the manufacturing environment. Organizational structure of a manufacturing organization. Equipment and processes used in material removal process. Required documentation. Tools and measurement devices used in manufacturing. Applied mathematics used in a manufacturing. Specific coolants, cooling oils and chemical used in the material removal process. Operator certification check sheet. Prerequisites: None.

MET100AB

Tool Room II: Machine, Processes, and Employment

2 Credits. 2 Periods.

Career selection process and completion of a resume and job application. Job interview under a simulated situation. Ideal work habits, ethics and career opportunities in the manufacturing field. Operator certification check sheet. Prerequisites: MET100AA.

MET102

Machine Processes, Theory and Application

5 Credits. 9 Periods.

Study and application of principles and theory of common metal removal processes including drilling, reaming, boring, milling, turning, and grinding. Cutting tool geometry and materials, cutting speeds and feeds, coolants, and precision measurement. Prerequisites or Corequisites: MET/GTC107 and MET109 or minimum score of 80% on related competency evaluation.

MET105

Computer-Aided Drafting for Manufacturing

3 Credits. 6 Periods.

Use of Computer Aided Drafting (CAD) equipment (hardware and software) in manufacturing and engineering drawings.

Prerequisites: None.



MET108

Technical Mathematics II

3 Credits. 3 Periods.

Fundamental algebraic operations. Problem solving involving metric measurement, gears, pulleys, simple mechanism problems. Areas and volume calculations of geometric figures. Essentials of trigonometry for solving right and oblique triangles. Prerequisites: GTC/MET107 or permission of instructor.

Cross-References: GTC108

MET109

Machine Trades Print Reading

3 Credits. 3 Periods.

Analysis and interpretation of technical drawings (prints) common to manufacturing and the machine trades. Types of print formats, line types, and view projections. Mathematical calculations for determining dimensions. Symbols and features present on prints. Prerequisites: None.

MET110

Survey of Manufacturing Materials

1 Credits. 1 Periods.

Survey of metallurgy, composites, plastics, ceramics and other materials used in manufacturing. Material properties, classification and structure. Elementary strength of materials, heat treatment, and other materials processing requirements. Emphasis on relating materials and processes to specific hardware. Prerequisites: None.

MET112

Inspection Techniques

3 Credits. 3 Periods.

Set-up and use of inspection tools, equipment, and procedures used in the industry. Use of ancillary equipment. Inspection planning forms and tables. Tool control activities and tool use certification process. Prerequisites: MET109 or permission of department.

MET114

Quality Systems

1 Credits. 1 Periods.

Quality system models and their application to a manufacturing organization. Cost of quality in a manufacturing organization. Prerequisites: None.

MET115

Teamwork Dynamics in

Manufacturing

2 Credits. 2 Periods.

Theory and practice of how team members and team leaders use listening, negotiating and interpersonal skills for the enhancement of team process. Concepts of team development and team problem-solving techniques. Prerequisites: None.

MET203

Machine Tools

5 Credits. 9 Periods.

Set up and operation of machine tools including engine lathes, drill presses, grinders, and milling machines. Emphasis on safety procedures during machine operation. Completion of operator certification checklist. Prerequisites: MET102, MET/GTC107, and MET109.

MET206

CNC Programming

3 Credits. 6 Periods.

MManual programming using computer generation of program media. Set-up and operation of a three axis machine. Study of management implications and advantages of computer numerical control (CNC). Prerequisites: MET102 or (MET102AA, MET103AA, MET104AA and MET105AA), or machine shop experience or permission of program director. Cross-References: GTC206

MET236

CAD/CAM Computer Numerical Control (CNC) Programming

3 Credits. 6 Periods.

Programming of Numerical Control (NC) Mill, Lathe, and Wire Electrical Discharge Machine (EDM), utilizing Computer Aided Drafting and Computer Aided Manufacturing (CAD/CAM) for design and generation of part geometry. Verification of tool path using CAD graphics. Generate programs using CAM post processor. Prerequisites: GTC/MET206. Cross-References: GTC236

MET260

Tooling and Fixturing

3 Credits. 3 Periods.

Various types of jigs and fixtures and their function as related to Numerically Controlled (NC) machines. Clamping and workholding principles and also use of common jigs and fixture hardware. Prerequisites: (MET111 and MET140) or permission of department.

MET264

Manufacturing Process Planning

3 Credits. 3 Periods.

Development of a production plan (routing) from basic pre- production information in the product drawing, expected volume, available equipment, set-up reduction requirements, and other planning requirements. Prerequisites or Corequisites: MET260.

MASS COMMUNICATIONS

MCO220

Cultural Diversity and the Media

3 Credits. 3 Periods.

Images of the diverse cultures and gender issues within the U.S. media. Exploration of racial and gender roles which shape the media as well as media roles which influence U.S. race relations and racial change. Roles, contributions, and challenges of the minority press in the United States. Prerequisites: ENG101, or ENG107, or equivalent.

MATHEMATICS

MAT082

Basic Arithmetic

3 Credits. 3 Periods.

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

Developmental Algebra

5 Credits. 5 Periods.

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

Algebra/Anxiety Reduction

4 Credits. 4 Periods.

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

Introductory Algebra

3 Credits. 3 Periods.

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

Mathematical Concepts/Applications

3 Credits. 3 Periods.

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.

MAT103AA

Mathematics for Industrial Applications I

2 Credits. 2 Periods.

Fundamental operations with whole numbers, common fractions, decimals, percentages, and ratio and proportion. Graphs, measurements, and measurement tools. Fundamentals of algebra to include signed numbers, algebraic operations, linear equations, graphs of linear equations, and systems of equations. Includes applied math problems. Prerequisites: Grade of "C" or better in MAT082, or equivalent, or satisfactory score on District placement exam.

MAT103AB

Mathematics for Industrial Applications II

2 Credits. 2 Periods.

Fundamentals of plane geometry and angular measure. Theorems, axioms, corollaries and definitions applying to triangles, congruent and similar figures, polygons, and circles. Computed measure of geometric figures, area, volume, surface area, and weight. Fundamentals of trigonometry, trigonometric functions, right triangles, law of sines and law of Cosines. Includes applied math problems. Prerequisites: MAT103AA or permission of the instructor.

MAT108

Tutored Mathematics

2 Credits. 2 Periods.

Structured tutorial assistance and math study skills to help students achieve success in a mathematics course in which they are concurrently enrolled. Mathematics study skills emphasized. Prerequisites: None. Corequisites: MAT082, or MAT090, or MAT091, or MAT092, or MAT120, or MAT121, or MAT122, or MAT140, or MAT 141, or MAT 142, or MAT150, or MAT151, or MAT152, or permission of department chair. Course Notes: MAT108 may be repeated for a total of 10 credits.

MAT120

Intermediate Algebra

5 Credits. 5 Periods.

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

Intermediate Algebra

4 Credits. 4 Periods.

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.

MAT142

College Mathematics

3 Credits. 3 Periods.

Working knowledge of college-level mathematics and its applications to real-life problems. Emphasis on understanding mathematical concepts and their applications. Topics include set theory, probability, statistics, finance, and geometry. Prerequisites: Grade of "C" or better in MAT120, or MAT121, or MAT122 or equivalent, or satisfactory score on District placement exam.

MAT150

College Algebra / Functions

5 Credits. 5 Periods.

Analysis and interpretation of the behavior and nature of functions including polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions; systems of equations, modeling and solving real world problems. Additional topics may include matrices, combinatorics, sequences and series, and conics. Prerequisites: Grade of "C" or better in MAT120, or MAT121, or MAT122 or equivalent, or satisfactory score on District placement exam.

MAT151

College Algebra/Functions

4 Credits. 4 Periods.

Analysis and interpretation of the behavior and nature of functions including polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions; systems of equations, modeling and solving real world problems. Additional topics may include matrices, combinatorics, sequences and series, and conics. Prerequisites: Grade of "C" or better in MAT120, or MAT121, or MAT122, or equivalent, or satisfactory score on District placement exam. Course Note: May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187

MAT152

College Algebra / Functions

3 Credits. 3 Periods.

FAnalysis and interpretation of the behavior and nature of functions including polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions; systems of equations, modeling and solving real world problems. Additional topics may include matrices, combinatorics, sequences and series, and conics. Prerequisites: Grade of "B" or better in MAT120, or MAT121, or MAT122, or equivalent, or satisfactory score on District placement exam.

MAT156

Mathematics for Elementary Teachers

Ι

3 Credits. 3 Periods.

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

Mathematics for Elementary Teachers

I

3 Credits. 3 Periods.

Focuses on measurement, geometry, probability and data analysis. Appropriate technologies, problem solving, reasoning, and proof are integrated throughout the course. Prerequisite: MAT156 or equivalent.

MAT172

Finite Mathematics

3 Credits. 3 Periods.

An introduction to the mathematics required for the study of social and behavioral sciences. Includes combinatorics, probability, descriptive statistics, matrix algebra, linear programming and the mathematics of finance. Includes applications of technology in problemsolving. Prerequisites: Grade of "C" or better in MAT150, or MAT151, or MAT152, or MAT187 or equivalent, or satisfactory score on District placement exam.

MAT182

Plane Trigonometry

3 Credits. 3 Periods.

A study of measures of angles, properties of graphs of trigonometric functions, fundamental identities, addition and halfangle formulas, inverse trigonometric functions, solutions of trigonometric equations, complex numbers and properties of triangle solution. 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.

MAT212

Brief Calculus

3 Credits. 3 Periods.

Introduction to the theory, techniques and applications of the differential and integral calculus of functions with problems related to business, life, and the social sciences. Prerequisites: Grade of "C" or better in MAT150, or MAT151, or MAT152, or MAT187 or equivalent, or satisfactory score on District placement exam.

MAT220

Calculus with Analytic Geometry I

5 Credits. 5 Periods.

Limits, continuity, differential and integral calculus of functions of one variable. May receive credit for only one of the following: MAT220 or MAT221. Prerequisites: Grade of "C" or better in (MAT150, or MAT151, or MAT152), and MAT182, or MAT187 or equivalent, or satisfactory score on District placement exam.

MAT230

Analytic Geometry and Calculus II

Credits. 5 Periods.

Continuation of MAT220 including work on the elementary transcendental functions, techniques of integration, vector functions, and infinite series. May receive credit for only one of the following: MAT230 or MAT231. Prerequisites: Grade of "C" or better in MAT220 or MAT221 or equivalent.

MAT241

Calculus with Analytic Geometry III

4 Credits. 4 Periods.

Multivariate calculus including vectors, vector-valued functions, partial differentiation, multiple integration and an introductin to vector fields. Prerequisites: Grade of "C" or better in MAT230 or MAT231. **Course Notes:** May receive credit for only one of the following: MAT240 or MAT241.

MAT262

Differential Equations

3 Credits.
3 Periods.

Ordinary differential equations with applications including LaPlace transforms with numerical methods. Prerequisites: Grade of "C" or better in MAT230, or MAT231, or equivalent.

MICROSOFT TECHNOLOGY

MST140

Microsoft Networking Essentials

3 Credits. 4 Periods.

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.

MST141

Supporting Microsoft Windows Desktop Operating Systems

3 Credits. 4 Periods.

Troubleshooting and repairing problems with Microsoft Windows desktop operating systems. Basic knowledge of system architecture and security as needed to provide skills required to support users. Preparation for Microsoft Certified Desktop Support Technician (MCDST) certification examination. Prerequisites: CIS102 and CIS105, or permission of instructor. Prerequisites or Corequisites: MST150XP.

MST142

Supporting Applications on Microsoft Windows Desktop Operating Systems

3 Credits. 4 Periods.

Troubleshooting and repairing end-user problems with applications running on current Windows desktop operating systems. Preparation for Microsoft Certified Desktop Support Technician (MCDST) certification examination. Prerequisites: CIS102 and CIS105, or permission of instructor. Prerequisites or Corequisites: MST150XP.

MST145

Microsoft Client System Administration

3 Credits. 4 Periods.

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.

MST150

Microsoft Windows Professional Administration

3 Credits. 4 Periods.

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

Microsoft Windows 2000

Professional

3 Credits. 5 Periods.

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

Microsoft Windows XP Professional

3 Credits. 4 Periods.

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

Microsoft Windows Server

4 Credits. 5 Periods.

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.

MST154

Microsoft Windows Network Enterprise

3 Credits. 4 Periods.

Knowledge and skills to plan, install, configure, customize, and integrate networks with Windows server operating system in a heterogeneous, multiple-domain environment. Preparation for Microsoft certification examination. Prerequisites: MST150 or permission of instructor. Corequisites: MST152 or permission of instructor.

MST155

Implementing Windows Network Infrastructure

3 Credits. 4 Periods.

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

Implementing Windows Directory Services

3 Credits. 4 Periods.

Knowledge and skills to install, configure, and administer Microsoft Windows Active Directory services. Preparation for Microsoft certification examination. Prerequisites: Any MST152 course or permission of instructor.

MST170

Visual Basic Desktop Application Development

4 Credits. 5 Periods.

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

Microsoft FrontPage

3 Credits. 4 Periods.

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

Visual Basic .NET Web Application Development

4 Credits. 5 Periods.

Knowledge and skills to develop and implement Web-based applications using ASP.NET, Web forms, and the Microsoft.NET framework with Visual Basic. Preparation for Microsoft Certified Applications Developer (MCAD) certification examination. Prerequisites: (BPC/CIS133DA, or BPC/CIS133AA and BPC/CIS133BA and BPC/CIS133CA) and CIS259, or permission of instructor.

MST174

Microsoft Visual InterDev

3 Credits. 4 Periods.

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.

MST232

Managing a Windows Network Environment

3 Credits. 4 Periods.

WKnowledge and skills necessary to administer Windows network operating systems. Preparation for Microsoft certification examination. Prerequisites: MST140, MST150, and MST152, or permission of instructor.

MST240

Microsoft Transmission Control Protocol/Internet Protocol (TCP/IP)

3 Credits. 4 Periods.

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

Microsoft Exchange Server

4 Credits. 5 Periods.

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.

MST244

Microsoft SQLAdministration

3 Credits. 4 Periods.

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

Implementing Microsoft Internet Explorer

2 Credits. 3 Periods.

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

Microsoft Proxy Server

2 Credits. 3 Periods.

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

Microsoft Windows Network Upgrade

3 Credits. 4 Periods.

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.

MST253

Designing a Microsoft Windows 2000 Directory Services Infrastructure

3 Credits. 4 Periods.

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

Microsoft SQL Server Design and Implementation

3 Credits. 4 Periods.

Knowledge and skills required to design and implement databases using Microsoft SQL server. Preparation for Microsoft certification examination. Prerequisites: CIS259, or any MST152 course, or permission of instructor.

MST255

Designing Windows Network Infrastructure

3 Credits. 4 Periods.

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

Designing Windows Network Security

3 Credits. 4 Periods.

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

Microsoft Solution Architectures

3 Credits. 4 Periods.

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 GBS151) and MST170, or permission of instructor.

MST298AC

Special Projects

3 Credits 3 Periods.

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 available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: Permission of Program Director or instructor.

MUSIC: HISTORY/ LITERATURE

MHL140

Survey of Music History

3 Credits. 3 Periods.

Study of composers, compositions, styles, and periods in music history. Prerequisites: None.

MHL143

Music in World Cultures

3 Credits. 3 Periods.

Non-European musical traditions including the study of music in rituals, musical instruments and the impact of cultures on musical styles. Prerequisites: None.

MHL145

American Jazz and Popular Music

3 Credits. 3 Periods.

The study of cultural and social contributions to the evolution of American Jazz and popular music from the mid-1800's to present. Prerequisites: None.

MHL147

Music of African-American Cultures

3 Credits. 3 Periods.

African-American music traced from its origin in Africa to the present. Includes spirituals, blues, gospel, jazz, and classical style. Prerequisites: None.

MHL153

Rock Music and Culture

3 Credits. 3 Periods.

History of Rock music and how cultural, social, political and economic conditions have shaped its evolution. Prerequisites: None.

MHL155

Survey of American Music

3 Credits. 3 Periods.

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

Music in Latin America and the Caribbean

3 Credits. 3 Periods.

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.

MUSIC: PERFORMANCE

MUP225

Class Guitar I

2 Credits. 3 Periods.

Emphasis on note-reading and folk-style harmonic accompaniment. Includes finger-style playing. Stresses development of efficient practicing techniques and proper sitting and hand positions. Prerequisites: None.

MUP226

Class Guitar II

2 Credits. 3 Periods.

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.

NURSING

NUR111

Nursing Process and Critical Thinking I

4 Credits. 4 Periods.

Overview of nursing and critical thinking strategies focused on meeting basic human needs within the wellness/illness continuum. Theoretical concepts related to holistic care of well, geriatric, and adult clients with selected alterations in health including psychological/mental health disorders. Emphasis on use of nursing process in the role of the nurse as member of the health care team. Includes concepts of pathophysiology, nutrition, and communication. Requires application of previous knowledge of physical, biological, and social sciences. Prerequisites: Admission to the Practical Nursing or Nursing programs. Corequisites: NUR119 or permission of Nursing Department chairperson.



NUR117

Pharmacology and Medication Administration I

2 Credits. 4 Periods.

Introduction to pharmacology. Includes foundation knowledge and skills instruction. Emphasis on core medication prototypes and skills necessary for safe administration of selected medication categories. Concepts of medication administration by selected routes introduced. Application of previous knowledge of physical, biological and social sciences. Prerequisites: Admission to the Practical Nursing or Nursing Programs.

NUR119

Nursing Science I

5 Credits. 15 Periods.

Development of clinical competency in the performance of selected nursing skills and procedures. Provides for participation in the care of clients experiencing problems of alteration in health and selected mental health disorders. Provides for clinical practice experiences with individuals and families in a variety of long term care and acute settings. Application of holistic nursing concepts and assessments related to health promotion, disease/illness prevention, and health restoration, as well as concepts of pathophysiology. nutrition. communication. Prerequisites: Admission into the Practical Nursing or Nursing Programs. Corequisites: NUR111 or permission of Nursing Department chairperson.

NUR121

Nursing Process and Critical Thinking II

4 Credits. 4 Periods.

Nursing and critical thinking strategies focused on meeting basic human needs within the wellness/illness continuum. Theoretical concepts related to holistic care of adult and geriatric clients with selected alterations in health. Introduces human growth and developmental principles. Introduction to care of newborn, pediatric, well childbearing clients, and childrearing families. Continuation of the role of the nurse as member of the health care team. Includes concepts of pathophysiology, nutrition, and communication. Application of previous knowledge of physical, biologic, social, and nursing sciences. Prerequisites: NUR111, NUR117, and NUR119. Corequisites: NUR129 or permission of Nursing Department chairperson.

NUR127

Pharmacology and Medication Administration II

2 Credits. 4 Periods.

Continues emphasis on core medication prototypes and skills. Emphasis on critical thinking skills for safe practice in medication administration. Introduces concepts of venipuncture and initiation of IV access. Requires application of previous knowledge of physical, biological, social and nursing sciences. Prerequisites: NUR111, NUR117, and NUR119.

NUR129

Nursing Science II

5 Credits. 15 Periods.

Continuation of application of holistic nursing concepts and assessments related to health promotion, disease/illness prevention and health restoration of individuals and families. Provides continued opportunity for the development of clinical competency in the performance of selected nursing skills, participation in the care of clients with alterations in health. Provides clinical experiences with adult, pediatric, well childbearing clients and childrearing families in a variety of acute care and community settings. Application of nursing concepts in the development of care plans as well as concepts of pathophysiology, nutrition, and communication. Includes participation in client teaching and discharge planning. Prerequisites: NUR111, NUR117, and NUR119. Corequisites: NUR121 or permission of Nursing Department chairperson.

NUR231

Nursing Process and Critical Thinking III

4 Credits. 4 Periods.

Nursing and critical thinking strategies. Emphasis on complex human needs within the wellness/illness continuum in a variety of acute care and community settings. Theoretical concepts related to holistic care of adults with selected acute and chronic alterations in health and psychiatric/mental health disorders. Introduction to role of the professional nurse as member of the health care team. Integrates concepts of nutrition, communication, health promotion, and advanced pathophysiology. Application of previous knowledge of physical, biologic, social, and nursing sciences. Prerequisites: NUR121, NUR127, and NUR129. Corequisites: NUR239 or permission of Nursing Department chairperson.

NUR237

Pharmacology and Medication Administration III

1 Credits. 2 Periods.

Knowledge and skills to safely prepare and administer intravenous medications and solutions. Emphasizes management of clients receiving complex therapies such as blood and blood products, parenteral nutrition, and advanced pain management. Application of previous knowledge of physical, biological, and social sciences. Includes an overview of parenteral medications and therapies used in selected situations. Prerequisites: NUR121, NUR127, and NUR129.

NUR239

Nursing Science III

5 Credits. 15 Periods.

Application of critical thinking skills through the nursing process to clients and families with acute alterations in health and psychiatric/mental health disorders. Provides for the development of clinical and cultural competency and the continued development of selected nursing skills and procedures within the nursing scope of practice. Holistic care of clients, families, and small groups in a variety of acute and community health care settings. Application of nursing concepts related to health education/promotion for clients, families, and small groups. Integrates concepts of nutrition, communication, health promotion advanced pathophysiology. Prerequisites: NUR121, NUR127, and NUR129. Corequisites: NUR231 or permission of Nursing Department chairperson.

NUR241

Nursing Process and Critical Thinking IV

4 Credits. 4 Periods.

Nursing and critical thinking strategies for complex holistic needs of high-risk clients with multi- system health alterations. Includes perinatal, newborn, pediatric, and adult clients in acute care settings. Continuation of role development of the professional nurse. Integrates concepts of nutrition, communication, health promotion, and advanced pathophysiology. Application of previous knowledge of physical, biologic, social, and nursing sciences. Prerequisites: NUR231, NUR237, and NUR239. Corequisites: NUR249 or permission of Nursing Department chairperson.



NUR249

Nursing Science IV

6 Credits. 18 Periods.

Synthesis of nursing concepts. Provides nursing care for high-risk newborn, pediatric, perinatal, and adult clients with multi-system alterations in health. Emphasis on leadership and management roles of the nurse. Includes a preceptorship experience to facilitate role transition from student to graduate nurse. Integrates concepts of nutrition, communication, health promotion and advanced pathophysiology. Prerequisites: NUR231, NUR237, and NUR239. Corequisites: NUR241 or permission of Nursing Department chairperson.

OCCUPATIONAL SAFETY AND HEALTH

OSH101

Introduction to Environmental Hazardous Materials Technology

3 Credits. 3 Periods.

Overview of environmental hazardous materials technology. History of pollution leading to current legislation. Environmental effects of pollution. Overview of the regulatory framework. Career opportunities in handling and management of hazardous substances. Prerequisites: None.

OSH102

Introduction to Industrial Hygiene

3 Credits. 3 Periods.

Fundamental concepts of Industrial Hygiene, including terminology, basic toxicology, body entry routes, threshold limit values, and measurement. Control of typical occupational physical and chemical hazards, radiation and environmental concerns. Instruction and practice in basic sampling techniques. Prerequisites: None.

OSH106

Industrial Safety

2 Credit. 2 Periods.

Safety, health management and accident prevention in industrial work environment. Role of Occupational Safety and Health Administration (OSHA) act, materials handling, electrical safety, machine safety, first response to fire and medical emergencies, safety signs and color codes, recognition of safety and health hazards accident prevention, and management's responsibilities. Prerequisites: None. Cross-References: FAC106, GTC106, MIT106

OFFICE AUTOMATION SYSTEMS

OAS101AA

Computer Typing I: Keyboard Mastery

1 Credit. 1.7 Periods.

Incorporates correct touch typing principles. Prerequisites: None.

OAS118

10-Key By Touch

1 Credit. 1.7 Periods.

Touch system of numeric keys on ten-key pads. Prerequisites: None.

OAS120

Financial Record Keeping

3 Credits. 3 Periods.

Computerized application of concepts and procedures of office record keeping; includes finance and personnel records, inventory systems, banking procedures and cash control; decision-making process for solving financial problems. Prerequisites: None.

PHILOSOPHY

PHI101

Introduction to Philosophy

3 Credits. 3 Periods.

General consideration of human nature and the nature of the universe. Knowledge, perception, freedom and determinism, and the existence of God. Prerequisites: None.

PHI103

Introduction to Logic

3 Credits. 3 Periods.

Informal logic, logical fallacies, elementary symbolic logic, analysis of argument forms, and construction of proofs for validity. Prerequisites: ENG101 or ENG107 or equivalent.

PHI201

History of Ancient Philosophy

3 Credits. 3 Periods.

Historical survey of the intellectual history of the Greco-Roman world, focusing on the philosophical tradition and social/historical context. Prerequisites: None.

PHI213

Medical and Bio-Ethics

3 Credits. 3 Periods.

A philosophical consideration of moral problems that arise in relation to medicine and biology, e.g., death, patient's rights and biological experimentation. Prerequisites: None. Cross-References: REL213

PHI224

Political Philosophy

3 Credits. 3 Periods.

Predominant figures and theories in Euroamerican political philosophy from Plato to contemporary social/political philosophers. Prerequisites: None.

PHI243

World Religions

3 Credits. 3 Periods.

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. Cross-reference: HIS243, REL243.

PHI245

Introduction to Eastern Philosophy

3 Credits. 3 Periods.

Fundamental theories of Indian and Chinese metaphysics, epistemology, ethics and aesthetics. Prerequisites: None.

PHYSICAL EDUCATION

HES154

FirstAid/Cardiopulmonary

Resuscitation

3 Credits. 3 Periods.

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.

PED101GF

Physical Activities: Cycling

1 Credit. 2 Periods.

Individual, dual, or team sports activities as listed in the schedule of classes. May be repeated for credit. Prerequisites: None.

PED102

Physical Activities

1 Credit. 2 Periods.

Individual, dual, or team sports activities as listed in the schedule of classes. May be repeated for credit. Prerequisites: None.



PED102AF

Physical Activities: Aerobics

1 Credit. 2 Periods.

Individual, dual, or team sports activities as listed in the schedule of classes. May be repeated for credit. Prerequisites: None

PED102AQ

Water Exercise

1 Credit. 2 Periods.

Individual, dual, or team sports activities as listed in the schedule of classes. May be repeated for credit. Prerequisites: None.

PED102BP

Backpacking

1 Credit. 2 Periods.

Covers basic skills and techniques of backpacking and the application of these to wilderness travel. Includes outdoor survival and evacuation techniques under a variety of environmental conditions. Prerequisites: None.

PED102CX

Basketball

1 Credit. 2 Periods.

Individual, dual, or team sports activities as listed in the schedule of classes. May be repeated for credit. Prerequisites: None.

PED102JX

Golf

1 Credit. 2 Periods.

Individual, dual, or team sports activities as listed in the schedule of classes. May be repeated for credit. Prerequisites: None.

PED102LK

Hiking

1 Credit. 2 Periods.

Development of safe and effective hiking skills. Essentials and requirements for safe hiking; proper hiking clothing and attire; impact of hiking on the environment. Prerequisites: None.

PED102QR

Physical Activities: Physical

Conditioning

1 Credit. 2 Periods.

Individual, dual, or team sports activities as listed in the schedule of classes. May be repeated for credit. Prerequisites: None.

PED102SL

Physical Activities: Scuba Diving

1.50 Credit. 2.50 Periods.

Individual, dual, or team sports activities as listed in the schedule of classes. May be repeated for credit. Prerequisites; None.

PED102SP

Physical Activities: Self Defense

1 Credit. 2 Periods.

Individual, dual, or team sports activities as listed in the schedule of classes. May be repeated for credit. Prerequisites: None.

PED102SU

Scuba Diving: Advanced

1 Credit. 2 Periods.

Individual, dual, or team sports activities as listed in the schedule of classes. May be repeated for credit. Prerequisites: PED102SL or equivalent (any certification card from a nationally recognized agency). A health form and/or physical may be required.

PED102VR

Tai Chi

1 Credit. 2 Periods.

Teaches the fundamentals of Tai Chi including the moves, rules, and traditional discipline of the sport. Prerequisites: None.

PED102WT

Physical Activities: Volleyball

1 Credit. 2 Periods.

Individual, dual, or team sports activities as listed in the schedule of classes. May be repeated for credit. Prerequisites: None.

PED112

Professional Applications of Fitness Principles

3 Credits 3 Periods

Basic principles of fitness for the prospective fitness professional. Planning and teaching in a fitness program. Topics include exercise risks and safety, weight control, components of fitness, fitness assessment, and exercise programming. Prerequisites: None.

PED113

Weight Training

1.5 Credits 3 Periods

Weight training 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. Prerequisites: None.

PED114

Fitness

1.5 Credits 3 Periods.

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.

PED115

Lifetime Fitness

2 Credits. 4 Periods.

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 credit. Prerequisites: None.

PED118

Aerobics for Seniors

1.5 Credits. 3 Periods.

Formatted for older adults with music and class tempo appropriate for those over age 55. Includes flexibility exercises, cardiovascular conditioning, and strengthening and toning exercises. Prerequisites: None.

PED125

Exercise Science

3 Credits 3 Periods

Principles of exercise science applied to teaching fitness/aerobics. Major factors related to the function of the human body. Emphasis on anatomy/physiology, exercise physiology, and biomechanics. Prerequisites: None.

PED130

Strength Fitness-Physiological Principles and Training Techniques

3 Credits 3 Periods

Principles and techniques of strength training including strength physiology, performance factors, training recommendations, exercise techniques, and program design and management. Prerequisites: None. Cross-References: WED130

PED132

Cardiovascular Fitness: Physiological Principles and Training Techniques

2 Credits 2 Periods

Covers principles and techniques of aerobic training and the application of these to the development of aerobic training programs. Includes instructional techniques and safety, and stresses injury prevention. Prerequisites: None



PED139

Practical Applications of Personal Training Skills and Techniques Internship

3 Credits 5.40 Periods

Development of personal training skills including effective communication, client assessment, fitness testing, goal setting, program design, and program implementation. Includes hands on experience with clients in a Fitness Center. Prerequisites: Current CPR certification or permission of instructor. Course Note: Students will have 240 hours of contact with clientele.

PED145

Guidelines for Exercise Testing and Prescription

3 Credits 3 Periods

Follows the current ACSM guidelines for health appraisal, risk assessment, safety of exercise, exercise testing, and exercise prescription. Prerequisites: None.

PED212CR

Instructional Competency Laboratory: Cardiorespiratory Exercises and **Activities**

3 Period. 2 Credit.

Fundamental methods of instructing and leading fitness activities including cardiorespiratory exercises and activities. Core competencies identified by professional certification agencies. Prerequisites: None.

PED212FL

Instructional Competency Laboratory: Flexibility and Mind-Body Exercises

2 Credit. 3 Period.

Fundamental methods of instructing and leading fitness activities including flexibility activities. Core competencies identified by professional certification agencies. Prerequisites: None.

PED212SC

Instructional Competency Lab: Muscular Strength and Conditioning

3 Period. 2 Credit.

Fundamental methods of instructing and leading fitness activities including strength and conditioning activities. Core competencies identified by professional certification agencies. Prerequisites: None.

PED214

Fitness for Living

1 Credit. 1 Period.

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; and exercise adherence and program planning. Prerequisites: None.

PED215

Fitness for Life

3 Credits. 3 Periods.

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 wellbeing. Prerequisites: None.

PED275

Methods of Enhancing Physical **Performance**

3 Credit. 3 Period.

Theoretical and practical applications of performance enhancement methodologies and practices. Basic sport mechanics and exercise physiology. Training clients for speed, power, agility, balance, and endurance activities to enhance athletic performance. Application of training principles to specific sports and design of training programs. Prerequisites: PED125 or PED130 or permission of instructor.

PED285

Exercise Program Design and Instruction

3 Credits. 3 Periods.

Business aspects of the fitness profession such as program administration, quality assurance, and effective communication skills for the professional personal trainer and/or strength and conditioning coach. Implementation of behavioral strategies, progression of program planning, and development of programs for populations with special physical/medical needs. Designing exercise programs in an internship setting. Prerequisites: PED145 or permission of instructor.

PHYSICAL SCIENCE

PHS110

Fundamentals of Physical Science

4 Credits. LEC 3 Periods. LAB 0 Credits. 3 Periods. Survey of the principles of physics and

chemistry. Prerequisites: Grade of "C" or better in MAT090, or MAT091, or MAT092, or MAT093, or equivalent, or satisfactory score on Math placement exam.

PHYSICAL

GEOGRAPHY

GPH212

Introduction to Meteorology I

3 Periods. 3 Credits.

Atmospheric processes and elements. General and local circulation, heat exchange and atmospheric moisture. Prerequisites: None.

GPH214

Introduction to Meteorology

Laboratory I

1 Credits. 3 Periods.

Basic meteorological and climatological measurements. Prerequisites: None. Corequisites: GPH212

PHYSICS

PHY101

Introduction to Physics

LEC 4 Credits. 3 Periods. 0 Credits. 3 Periods. LAB

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.

PHY105

Basic Physics

LEC 4 Credits. 3 Periods. LAB 0 Credits. 3 Periods. Survey of Newtonian mechanics to help students acquire a problem solving ability in physics generally. Primarily for students with either no physics background or a limited physics background who intend to take PHY115 and PHY116. Prerequisites: MAT152 and MAT182, or MAT187 or permission of

instructor.



PHY111

General Physics I

LEC 4 Credits. 3 Periods.

LAB 0 Credits. 3 Periods.

Includes motion, energy, and properties of matter. Prerequisites: Trigonometry or department consent. Course Note: Recommended for preprofessional and suggested for certain other majors.

PHY112

General Physics II

LEC 4 Credits. 3 Periods. LAB 0 Credits. 3 Periods. Includes electricity, electromagnetism, and modern physics. Prerequisites: PHY105 or PHY111.

PHY115

University Physics I

LEC 5 Credits. 4 Periods.
LAB 0 Credits. 3 Periods.
General physics course using calculus to develop the principles of mechanics and thermodynamics. Recommended for majors in the sciences and mathematics. Required for Engineering majors.

Prerequisites: MAT220 or MAT221 or department consent. Corequisites: MAT230 or MAT231. One year High School physics or PHY111 and PHY112 is strongly recommended.

PHY116

University Physics II

LEC 5 Credits. 4 Periods.

LAB 0 Credits. 3 Periods.

Principles of electricity, magnetism, waves, and optics. Required for Engineering majors.

Prerequisites: PHY115 and (MAT230 or MAT231). Corequisites: MAT241.

PHY121

University Physics I: Mechanics

LEC 4 Credits. 3 Periods.

LAB 0 Credits. 3 Periods.

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

University Physics II: Electricity and Magnetism

LEC 4 Credits. 3 Periods.

LAB 0 Credits. 3 Periods.

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.

PHY252

LEC

University Physics III:

Thermodynamics, Optics, and Wave Phenomena

4 Credits.

LAB 0 Credits. 3 Periods. Heat, entropy, and laws of thermodynamics; wave propagation; geometrical and physical optics; introduction to special relativity. Prerequisites: PHY131.

3 Periods.

POLITICAL SCIENCE

POS110

American National Government

3 Credit. 3 Period.

Study of the historical backgrounds, governing principles, and institutions, of the national government of the United States. Prerequisites: None.

POS125

Issues in World Politics

3 Credits. 3 Periods.

Contemporary issues and factors in international relations. Stress conditions in civil order, trade, and international institutions. May be repeated for a total of six (6) credit hours. Prerequisites: None.

POS130

State and Local Government

3 Credits. 3 Periods.

Survey of state and local government in the United States. Special attention on Arizona State government. Prerequisites: None.

POS220

U.S. and Arizona Constitution

3 Credits. 3 Periods.

Examination of the United States Constitution and the constitution and government of the state of Arizona. Prerequisites: None.

POS221

Arizona Constitution

1 Credit. 1 Period.

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

U.S. Constitution

2 Credits. 2 Periods.

Examination of the United States Constitution. Equivalent to the first part of POS220. May not enroll in POS220 and POS222 concurrently. Prerequisites: None.

POS223

Civil Rights

3 Credits. 3 Periods.

The historic background and current status of major civil rights issues in the United States. Prerequisites: None.

POWER PLANT TECHNOLOGY

PPT101

Hand and Power Tools

1 Credits. 1 Periods.

Identification and use of hand and hand-held power tools used in a power plant. Tool construction and purpose. Maintenance of hand and power tools. Prerequisites: None.

PPT102

Introduction to Electricity

3 Credits. 3 Periods.

Basic electrical terminology and concepts. Fundamentals of electrical theory. Calculations using electrical laws. Voltage and current production. Battery construction and applications. Principles of magnetism. Operation of motors, transformers, and generators. Electrical safety. Prerequisites: None.

PPT103

Print Reading and Plant Drawings

1 Credits. 1 Periods.

Introduction to print reading and plant drawings. Flow diagrams and symbols on drawings. Dimension, tolerance and clearance on drawings. Amendments to drawings. Specific types of drawings. Proper procedures when using plant drawings. Prerequisites: None.

PPT104

Properties of Materials

1 Credits. 1 Periods.

Basic properties of solids, liquids and gases. Basic properties and classifications of metals. Hazards of mixing different materials. Causes, effects and prevention of corrosion. Correct storage and handling of materials. Prerequisites: None.

PPT105

Air Compressor Principles

1 Credits. 1 Periods.

Air compressor terminology. Principles of gas behavior and inter-cooling. Internal and external factors affecting compressor operation. Operating principles, components, preventive and corrective maintenance procedures. Compressor troubleshooting procedures. Prerequisites: None.

217



PPT106

Diesel Engine Systems

1 Credits. 1 Periods.

Diesel operating principles and diesel engine systems. Practical knowledge of safety precautions, inspection and maintenance of diesel engines. Prerequisites: None.

PPT107

Lubrication

1 Credits. 1 Periods.

Principles, properties, and safe handling requirements of lubricants. Lubrication of bearings, lubrication systems, and system components. Oil settling systems. Construction, operation, and maintenance of oil purifiers. Prerequisites: None.

PPT108

Turbines

1 Credits. 1 Periods.

Operations, steam properties, energy transfer, parts, and types of turbines. Components and function. Turbine maintenance for oil and hydraulic systems, inspection of casings, nozzles and rotors. Turbine alignment and the tightening of joints using appropriate tools and equipment. Prerequisites: None.

PPT109

Pipefitting Auxiliaries I

2 Credits. 2 Periods.

Principles of operation, maintenance procedures and inspection procedures. Basic piping systems, fittings, joints, and assorted piping materials. Prerequisites: None.

PPT110

Valve Maintenance I

2 Credits. 2 Periods.

Safety, terminology, components, and operating principles of valves. Inspection and rework of valves. Components of the valve packing chamber. Packing and safety procedures. Stem packing installation. Quality assurance test methods for specific valves. Prerequisites: None.

PPT112

Principles of Machining

3 Credits. 3 Periods.

Safety practices, machining methods, and principles of material removal. Types of cutting tools, lathe, milling, drill, and bandsaw components. Principles of operation of specific machines found in the machine shop including turning, milling, drilling and cutting machines. Prerequisites: None.

PPT113

Pumps I

2 Credits. 2 Periods.

Types of pumps, applications and principles of operation and safety. Pump components identification. Inspection, use and maintenance of packing and mechanical seals. Prerequisites: None.

PPT114

Drive and Gear Components

1 Credits. 1 Periods.

Terminology, identification and inspection of the component parts of a drive and gear system. Operation, maintenance and inspection of couplings, clutches, brakes, belt drives, chain drives, shafts and gears. Operation and configurations of variable speed drives. Prerequisites: None

PPT115

Hydraulics and Pneumatics

2 Credits. 2 Periods.

Hydraulic and pneumatic safety, physical concepts, and fluid laws. Hydraulic and pneumatic system components and operation. Troubleshooting procedures of hydraulic and pneumatic systems. Prerequisites: None.

PPT116

Introduction to Welding and Metal Fabrication

3 Credits. 3 Periods.

Principles of metallurgy and material identification. Technical theory and basic skill training in oxyacetylene and shielded metal arc welding. Welding equipment safety and weld joints methods. Prerequisites: None.

PPT17

Forklift Operations

1 Credits. 1 Periods.

Safe and proper operation of forklift. Parts and function of forklift, principles of operation, and safety precautions. Inspection procedures, proper care, and industry standards. On-hands operation of a forklift. Prerequisites: None.

PPT118

Conduct of Maintenance

1 Credits. 1 Periods.

Safety and management expectations. Defense in Depth strategy and Conduct of Verifications. Maintenance procedures. Work control process. Performance of work standards and documentation including prejob preparation, pre-job notification, job review, job verification and job close out specific to nuclear power plant operations. Prerequisites: None.

PPT119

Instrument Air Compressor

Maintenance

2 Credits. 2 Periods.

Purpose, function, and identification of system drawings. Identification of major components. Instrument air compressor components and function. Air flow operations. Free air unloader components and function. Fluids and flow paths. Compressor cooling water and lubricating oil. Inspection and repair of parts. Troubleshooting. Prerequisites: None.

PPT200

Industry Events

1 Credits. 1 Periods.

Information distribution; methods and avenues of communication. Material and design problems in the nuclear power plant. Procedural deficiencies of motor and equipment operation. Operation of sensitive equipment. Potential plant vulnerabilities. Personnel errors including mis-positioning, flooding, testing and procedural violations. Prerequisites: None.

PPT202

Plant Systems and Components I

2 Credits. 2 Periods.

Plant mission, numbering and drawing systems. Components and function of reactor coolant, volume control, safety injection, and nuclear sampling systems. Function and operation of main stream and turbine systems. Main and auxiliary feedwater systems. Operation and function of steam and heater drain systems. Prerequisites: None.

PPT203

Plant Systems and Components II

2 Credits. 2 Periods.

Advanced course on plant systems and components. Water, electrical and cooling systems. Safe shutdown cooling water system. Waste drain system. Fuel handling and storage systems. Fuel pool cooling and cleanup. Purpose and operation of radioactive waste management. Service air and gas systems. Ventilation and fire protection systems. Prerequisites: PPT202.

PPT204

Measuring and Test Equipment

1 Credits. 1 Periods.

Administrative controls for precision measurement. Use of precision measuring equipment. Emphasis on proper use, accuratereading, and calculations using precision measuring devices. Prerequisites: None.



PPT205

Rigging

2 Credits. 2 Periods.

Safe and proper operation of lifting equipment. Weight calculations. Identification and proper location of rigging equipment. Hand signals and industry standards. Safe rigging practices. Inspection and maintenance procedures. Operation of pendant cranes. Prerequisites: None.

PPT206

Bearings

1 Credits. 1 Periods.

Application, inspection and maintenance of plant bearings. Design and operation of sliding and anti-friction bearings. Function, design and applications of bearing seals. Reasons for bearing failure and related preventative maintenance procedures. Prerequisites: None.

PPT207

Heat Exchangers

1 Credits. 1 Periods.
Heat exchanger theory including heat transfer and operating principles. Classification of heat exchangers including types, construction, and operation. Inspection of heat exchangers. Cleaning of exchanger tubes and shells. Cleaning of component parts. Troubleshooting tubes. Maintenance of exchangers. Prerequisites: None.

PPT208

Thermal Insulation

0.50 Credits. 0.50 Periods.

Principles of heat transfer and insulation. Types and temperature ranges for insulation. Safe and proper handling of insulation materials. Practical experience in removing and installing insulation. Prerequisites: None.

PPT209

Pipefitting Auxiliaries II

2 Credits. 2 Periods.

Purpose, terminology and system stress factors related to piping systems. Principles of fluid flow, and piping inspection procedures. Fabrication and installation of tubing materials, specific joints, and flanges. Basic piping system component maintenance, rework and installation procedures. Prerequisites: PPT109.

PPT210

Valve Maintenance II

3 Credits. 3 Periods.

Fundamentals of hand lapping. Dexter and Unislip resurfacing tools. Valve packing: purpose, components and specifications. Valve survey data sheet. Procedure for field manufacture of die-formed packing rings. Function of the Optical Flat. Valve inspection. Gaskets and torquing techniques. Prerequisites: PPT110.

PPT211

Couplings

0.50 Credits. 0.50 Periods.

Types, functions, and specific applications of couplings. Coupling removal and inspection procedures. Coupling rework and installation. Prerequisites: None.

PPT212

Control Valves and Actuators

1 Credits. 1 Periods.

Modulating control terminology. Disassembly, inspection and assembly processes. Construction and operation of specific actuators. Maintenance of pneumatic and hydraulic valve actuators. Principles of operation, inspection and testing of control valves. Bench testing. Prerequisites: None.

PPT213

Pumps II

3 Credits. 3 Periods.

Rotary, reciprocating and centrifugal pump operation. Positive displacement and metering pump operation. Diaphragm pulsafeeder operation. Disassembly, inspection and reassembly of radially and axially split centrifugal pumps. Troubleshooting and lab safety. Prerequisites: None.

PPT214

Machine Alignment

3 Credits. 5 Periods.

Calculations and practical lab exercises using alignment principles. Determination of indicator sag and thermal growth. Obtaining readings for alignment or misalignment. Rimface method of alignment stressed and practiced. Prerequisites: None.

PPT215

Relief and Safety Valves

1 Credits. 1 Periods.

Concepts of pressure and pressure measurement. Components and operation of rupture discs, relief valves, and safety valves. Maintenance procedures. Prerequisites: None.

PPT217

Refueling Overview

1 Credits. 1 Periods.

Destack and restack operations of the Reactor Vessel. Purpose and location of refueling equipment. Refueling operation including spent fuel, refueling machines and fuel transfer equipment. Safety. New fuel receipt, transfer and moving of spent fuel. Prerequisites: None.

PPT218

Lathe Operations

2 Credits. 4 Periods.

Safe and proper operation of the lathe. Component and accessories and their functions. Cutting tools and methods. Processes of machining including mounting, aligning, knurling, grooving, turning, thread cutting, drilling, reaming boring, and tapping. Machining techniques using a chuck. Prerequisites: None.

PPT219

Milling Machine Operations

2 Credits. 2 Periods.

Components of horizontal and vertical milling machines. Common milling machine accessories and cutters. Cutting speeds, feeds and depths for materials and cutters. Machine set up and operations. Common cutter failure. Operation of horizontal and vertical milling machines. Milling safety. Prerequisites: None.

PSYCHOLOGY

PSY101

Introduction to Psychology

3 Credits. 3 Periods.

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.

PSY123

Psychology of Parenting

3 Credits. 3 Periods.

The demonstration and application of psychological principles to the development and guidance of children and adolescents. Prerequisites: None.

PSY218

Health Psychology

3 Credits. 3 Periods.

Behavioral and mental foundations of health, wellness, illness, and disease, and psychological dimensions of medical intervention. Prerequisites: PSY101 with a grade of "C" or better, or permission of instructor.

PSY225

Psychology and Religion

3 Credits. 3 Periods.

Analysis of psychological perspectives on the religious experience of the individual. Application of historical and contemporary psychological theories to the question of religious experience. Prerequisites: PSY101 or Permission of Instructor.

219

PSY230

Introduction to Statistics

3 Credits. 3 Periods.

An introduction to the 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.

PSY235

Psychology of Gender Differences

3 Credits. 3 Periods.

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 instructor.

PSY240

Developmental Psychology

3 Credits. 3 Periods.

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, premed, and psychology. Prerequisites: PSY101 with a grade of "C" or better or permission of the instructor.

PSY250

Social Psychology

3 Credits. 3 Periods.

The scientific study of how people's thoughts, feelings, and behaviors are influenced by other people and situations. Includes how we think about ourselves and others, persuasion and influence, sexual and romantic attraction, friendship, and helping others, aggression and prejudice. Prerequisites: PSY101 with a grade of "C" or better or permission of the instructor.

PSY260

Personality Development

3 Credits. 3 Periods.

Introduction to theories of personality with emphasis upon application of specific theories towards the understanding of individuals. Prerequisites: PSY101 with a grade of "C" or better or permission of instructor.

PSY266

Abnormal Psychology

3 Credits. 3 Periods.

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.

PSY290AB

Research Methods

4 Credits. 3 Periods. 0 Credits. 3 Periods. (Lab)

Planning, execution, analysis, and written reporting of psychological research. Surveys the literature, procedures, and instruments in representative areas of psychological research. Prerequisites: ENG101 or ENG107 or equivalent. Prerequisites or Corequisites: PSY230 (or equivalent) with a grade of "C" or better, or permission of instructor.

PUBLIC ADMINISTRATION

PAD101

Survey of Public Administration

3 Credits. 3 Periods.

The history, present and future of public administration. Covers roles of public administrators, organizational relationships, intergovernmental relations and human resources as well as ethical issues, financial management, communication skills, and productivity issues. Prerequisites: None.

PAD201

Techniques of Municipal Administration

3 Credits. 3 Periods.

City administration management. Covers techniques, practices and responsibilities of city staff including forces of change, administrative techniques and leadership. Prerequisites: PAD101 or PAD103 or permission of instructor.

READING ENGLISH AS A SECOND LANGUAGE

RDG008

Phonics

3 Credits. 3 Periods.

Designed for students who are learning English as a second language. Includes the study of the speech sounds used in English as represented by the written symbols of the alphabet; recognition of spelling patterns and resulting pronunciation; and diacritical markings. Prerequisites: Reading placement score (ASSET) or permission of instructor

RDG010

Reading English as a Second

Language I

3 Credits. 3 Periods.

Designed for students who are learning English as a second language. Provides students with skills needed to become proficient readers in English. Teaches sound symbol relationships of the English alphabet. Expands essential vocabulary for daily communication both in isolation and context. Includes development of reading comprehension skills. Prerequisites: Appropriate ESL placement test score

RDG020

Reading English as a Second Language II

3 Credits. 3 Periods.

Designed for students who are learning English as a second language. Includes continued development of vocabulary and reading comprehension skills. Prerequisites: Appropriate ESL placement test score or grade of "C" or better in RDG010 or permission of instructor.

RDG030

Reading English as a Second Language III

3 Credits. 3 Periods.

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

Reading English as a Second Language IV

3 Credits. 3 Periods.

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.



READING EDUCATION

RDG081

Reading Improvement

3 Credits. 3 Periods.

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

College Reading Skills I

3 Credits. 3 Periods.

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.

RELIGIOUS STUDIES

REL101

Introduction to Religion

3 Credits. 3 Periods.

Various religious expressions of humankind. Focuses on basic religious themes common to religions, such as encounter with the Holy, search for self and community, mystical illumination, spiritual discipline. Prerequisites: None.

REL202

Classics of Asian Religions

3 Credits.
3 Periods.

Academic study of selected works from Hindu, Buddhist, Taoist and Confucian traditions. Study of cultural and concepts of the world, history, culture, and human nature as represented in these works. Prerequisites: None.

REL210

Introduction to Judaism

3 Credits. 3 Periods.

Introduction to the history, scriptures, practices and impact of Judaism. Prerequisites: None.

REL270

Introduction to Christianity

3 Credits. 3 Periods.

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

SLG101

American Sign Language I

4 Credits. 4 Periods.

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

American Sign Language II

4 Credits. 4 Periods.

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.

SLG202

American Sign Language IV

4 Credits. 4 Periods.

Advanced American Sign Language skills including continued vocabulary. Emphasis on conversational techniques in a crosscultural framework. Continued work on conceptual accurate signing of English idioms and words with multiple meanings. Prerequisites: SLG103 and SLG201 with a grade of "C" or better, or permission of department/division. Suggested but not required: ENG101, SLG200, and CRE101 or CRE111 or exemption by score on the reading placement test (ASSET).

SOCIETY AND BUSINESS

SBU200

Society and Business

3 Credits. 3 Periods.

The study and scientific inquiry of issues and demands placed on business enterprise by owners, customers, government, employees and society. Included are social, ethical and public issues and analysis of the social impact of business responses. Prerequisites: None.

SOCIOLOGY

SOC101

Introduction to Sociology

3 Credits. 3 Periods.

Fundamental concepts of social organization, culture, socialization, social institutions and social change. Prerequisites: None.

SOC140

Racial & Ethnic Minorities

3 Credits. 3 Periods.

Contemporary/Historical racial and ethnic intergroup relations emphasizing cultural origins, developments, and problems of minority groups in the United States. Prerequisites: None.

SOC157

Sociology of Marriage & Family

3 Credits. 3 Periods.

The study of courtship, marriage, and family patterns, their historical development, their adaptation to a changing culture, and their impact on individuals. Prerequisites: None.

SOC212

Gender and Society

3 Credits. 3 Periods.

A study of the way culture shapes and defines the positions and roles of both men and women in society. Major emphasis on social conditions which may lead to a broadening of gender roles and a reduction of gender role stereotypes and the implications of these changes. Open to both men and women. Prerequisites: None.

SOC251

Social Problems

3 Credits. 3 Periods.

A sociological exploration of selected social problems. Emphasis on current concerns. Prerequisites: SOC101.

221



SMALL BUSINESS MANAGEMENT

SBS200

Small Business Operations

2 Credits. 2 Periods.

In-depth analysis of and individual plan development for the "day-to-day" problems encountered in the operation of a small business. Includes the development of an individual business operations plan including finance, purchasing, production scheduling, maintenance, shipping/receiving, personnel management and insurance/risk management requirements. Investigation of daily problems related to inventory control and business expansion. Prerequisites: None.

SBS202

Small Business Bookkeeping and Tax Preparation

1 Credit. 1 Period.

Introduces accounting and record-keeping with emphasis on practical use of financial data for the successful management of a small business. Develops an understanding of the accounting cycle and preparation of financial statements. Includes section on tax consequences and preparation for small business owners. Designed for the non-financially oriented owner/manager of a small business. Prerequisites: None.

SBS203

Financing and Cash Management for a Small Business

1 Credit. 1 Period.

Planning for and meeting the financial needs of the small business including cash flow planning, identification of financial needs and sources, equity and debt financing, and preparation of loan packages. Participants complete a financial plan for their individual company, with emphasis on cost controls, sales revenue projection, expense allocation, and inventory cost control. Day-to-day operational budgeting also included. Prerequisites: None.

SBS204

Small Business Marketing and Advertising

2 Credits. 2 Periods.

Introduction to marketing and advertising strategies and methods including business image, target market analysis, and customer buying behavior profile. Analysis and selection of advertising/business promotion methods and timing. Methods of deciding products and market segment focus included. Design of an individual marketing and advertising/promotion plan. Prerequisites: None.

SBS214

Small Business Customer Relations

1 Credit. 1 Period.

Developing and improving customer relations for the small business. Planning and delivering quality customer service. Includes topics on attitudes of employees, customer perceptions and motivations, handling customer dissatisfaction, and developing customer, supplier, vendor, and distributor loyalty. Prerequisites: None.

SBS220

Internet Marketing for Small Business

2 Credits. 2 Periods.

Focus on "e-Commerce"-doing business on the Internet and planning a web site. Topics include: how the Internet can help growth and success of business; examples of successful marketing on the Internet; availability of Internet services; necessary hardware and software for marketing on the Internet; determining products/services appropriate for Internet marketing; budget constraints and on-going operations of the Internet site. Prerequisites: None.

SOCIAL WORK

SWU102

Introduction to Social Work

3 Credits. 3 Periods.

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 student enrolled in the associate degree program of the social work curriculum. Prerequisites: Eligibility for ENG101 and CRE101.

SWU291

Social Service Delivery Systems

3 Credits. 3 Periods.

Purposes, structures, and delivery systems of human service agencies. Includes 40 hours of volunteer experience in local human service agencies. Prerequisites or Corequisites: SWU102, or SWU271, or permission of the department.

SWU292

Effective Helping in a Diverse World

3 Credits. 3 Periods.

Introduction to professional helper communication skills with respect to cross-cultural practice and diversity issues, in a social work setting. Prerequisites: (SOC101 and SWU102) or SWU271 suggested but not required.

SPANISH

SPA101

Elementary Spanish I

4 Credits. 4 Periods.

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

Elementary Spanish II

4 Credits. 4 Periods.

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

Beginning Spanish Conversation I

3 Credits. 3 Periods.

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

Beginning Spanish Conversation II

3 Credits. 3 Periods.

Continued development of speaking and listening skills for effective communication in Spanish. Prerequisites: SPA115 or departmental approval.

SPA117

Health Care Spanish

3 Credits. 3 Periods.

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

Intermediate Spanish I

4 Credits. 4 Periods.

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, or SPA111, or permission of department.



SPA202

Intermediate Spanish II

4 Credits. 4 Periods.

Review of grammar, continued development of Spanish language skills with continued study of the Spanish-speaking cultures. Prerequisites: SPA201 or departmental approval.

SPEECH LANGUAGE PATHOLOGY

SLP104

Intermediate Spanish II

4 Credits. 4 Periods.

Review of grammar, continued development of Spanish language skills with continued study of the Spanish-speaking cultures. Prerequisites: SPA201 or departmental approval.

SLP205

Intermediate Spanish II

4 Credits. 4 Periods.

Review of grammar, continued development of Spanish language skills with continued study of the Spanish-speaking cultures. Prerequisites: SPA201 or departmental approval.

SLP214

Intermediate Spanish II

4 Credits. 4 Periods.

Review of grammar, continued development of Spanish language skills with continued study of the Spanish-speaking cultures. Prerequisites: SPA201 or departmental approval.

SLP216

Intermediate Spanish II

4 Credits. 4 Periods.

Review of grammar, continued development of Spanish language skills with continued study of the Spanish-speaking cultures. Prerequisites: SPA201 or departmental approval.

STORYTELLING

STO282AC

Volunteerism for Education: A Service Learning Experience

3 Credits. 3 Periods.

Service-learning field experience within educational systems, citizen advocacy groups, and human service organizations/agency. May be repeated for a total of six (6) STO282 credit hours; may not repeat specific agency assignment for more than three (3) credit hours. Standard grading available according to procedures outlined in catalog. Prerequisites: Permission of instructor.

STO286

Using Storytelling in a Variety of Settings

3 Credits. 3 Periods.

The application of storytelling and storytelling activities in the world of health care, business, parks, museums, hospitals, and education. Prerequisites: None.

STO288

Telling Sacred Stories from Around the World

3 Credits. 3 Periods.

Introduction to sacred stories as a genre. Researching, developing, and crafting traditional and personal sacred stories. Finding appropriate applications and venues for telling. Prerequisites: None.

STO289AA

Using Storytelling in Educational Settings

1 Credits. 1 Periods.

The application of storytelling and storytelling activities in educational settings. Prerequisites: None. Cross-References: EDU283AA

STO289AB

Using Storytelling in Business Settings

1 Credits. 1 Periods.

The application of storytelling and storytelling activities in business settings. Prerequisites: None.

STO289AC

Using Storytelling in Healing Settings

1 Credits. 1 Periods.

The application of storytelling and storytelling activities in healing settings. Prerequisites: None

STO292

The Art of Storytelling

3 Credits. 3 Periods.

Explore the art and origin of storytelling. Provide a variety of storytelling techniques, styles and exercises to enhance the delivery of telling stories. Assist in the integration and application of storytelling to the learning environment in the classroom. Prerequisites: None. Cross-References: EDU292, HUM292.

STO293

The Art of Storytelling II

3 Credits. 3 Periods.

Further exploration of the art of storytelling. Provide opportunities for the expansion of storytelling skills and a deeper appreciation of storytelling and its applications. Prerequisites: EDU292 or HUM292 or STO292.

STO297

Creating and Telling Personal Stories

3 Credits. 3 Periods.

Exploration of the art and craft of finding, developing and telling personal stories. Prerequisites: EDU292, or HUM292, or STO292.

THEATRE

THE111

Introduction to Theatre

3 Credits. 3 Periods.

A survey of theatre, including basic elements and principles of production, styles, and/or historical perspectives of theatre, dramatic literature, and criticism. Prerequisites: None.

THE220

Modern Drama

3 Credits. 3 Periods.

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.

THEATRE PERFORMANCE/ PRODUCTION

THP112

Acting I

3 Credits. 4 Periods.

Fundamental techniques and terminology of acting through physical and vocal expression, improvisation, and monologue and scene work. Emphasis on characterization. Prerequisites: None.

THP212

Acting II

3 Credits. 4 Periods.

Fundamental techniques of acting through script analysis, rehearsal, and performance. Prerequisites: THP112 or departmental approval.



TOTAL QUALITY MANAGEMENT

CSM101

Quality Customer Service

3 Credits. 3 Periods.

Examines the nature of quality customer service and the attitudes, knowledge, and skills needed to work effectively in a quality customer service environment. Foundation skills for quality customer service are taught, applied and practiced. Prerequisites: None. Cross-References: TQM101

CSM202

Principles of Process Improvement

3 Credits. 3 Periods.

Examines the concepts and tools of quality/continuous customer service improvement. Includes mapping processes, flow charts, focus groups, customer satisfaction surveys, statistical measurement, problem-solving tools and methods of presenting findings, evaluating, and implementing changes to improve customer service. Prerequisites: None.

CSM203

Teamwork Dynamics

3 Credits. 3 Periods.

Theory and practice of how team members and team leaders use listening, negotiating and interpersonal skills for the enhancement of team process to improve customer service based on employee evaluations and employee feedback. Included are concepts of team development and team problemsolving techniques. Prerequisites: None.

TQM101

Quality Customer Service

3 Credits. 3 Periods.

Examines the nature of quality customer service and the attitudes, knowledge, and skills needed to work effectively in a quality customer service environment. Foundation skills for quality customer service are taught, applied and practiced. Prerequisites: None. Cross-References: CSM101

TQM201

Total Quality Concepts

2 Credits. 2 Periods.

Examines the concepts of quality as they relate to service, products and the employee. Focuses on the history, rationale and basic principles of Total Quality. Recognizes the scope and requirements for a Total Quality development effort. Prerequisites: None.

TQM204

Team Roles and Dynamics

3 Credits. 3 Periods.

Focuses on basic concepts and tools associated with quality improvement to help teams function effectively. Participants use theory and practice to work as a team, plan, and conduct good meetings, manage logistics and details, gather useful data, analyze the data, communicate clearly and persuasively ideas and results with confidence and impact, and implement change. Prerequisites: None.

TQM214

Principles of Process Improvement

2 Credits. 2 Periods.

Examines the concepts and tools of quality/continuous improvement. Includes mapping processes, statistical measurement, problemsolving tools and methods of presenting findings, evaluating, and implementing changes. Prerequisites: None. TQM201 is recommended.

TQM230

Teamwork Dynamics

2 Credits. 2 Periods.

Theory and practice of how team members and team leaders use listening, negotiating and interpersonal skills for the enhancement of team process. Included are concepts of team development and team problem-solving techniques. Prerequisites: None. TQM201 is recommended.

TRANSLATION & INTERPRETATION

TRS100

Survey of Translation and Interpretation

4 Credits. 4 Periods.

Professional, sociolinguistic, and cognitive aspects of translation and interpretation. Includes social justice goals and language policy for interpretation and translation, role of translators and interpreters, consecutive interpretation, role of norms in legal translation, conservation of meaning, register, and style, meaning of translation, health care interpretation and translation, business and technical translation. Prerequisites: None.

WELDING TECHNOLOGY

WLD101

Welding I

3 Credits 6 Periods.

Principles and techniques of electric arc and oxyacetylene welding and cutting. Provides technical theory and basic skill training in these welding processes. Prerequisites: None.

WLD106

Arc Welding

5 Credits. 8 Periods.

Electric welding with emphasis on metallic arc welding in out-of-position practice and procedures. Prerequisites: None.

WLD201

Welding II

3 Credits. 6 Periods.

Further study of electric arc and oxyacetylene welding with emphasis on GTAW (heliarc) and GMAW (mig) processes to weld both ferrous and nonferrous metal. Prerequisites: WLD101

WLD206

Advanced Welding- Heliarc and Wire Feed

5 Credits. 8 Periods.

Instruction in theory and practice on tungsten inert gas and wire feed welding. Welding procedures on ferrous and nonferrous metals. Set up and operation of all types of machines used in tig and mig welding. Prerequisites: WLD106 or departmental permission.

WLD208

Advanced Arc Welding- Certification

5 Credits. 8 Periods.

Advanced metallic arc welding emphasizing out-of-position welding in preparation for certification. Includes various test methods. Provides training on machine flame cutting and gouging and arc air cutting and gouging. Prerequisites: WLD106 or permission of instructor.

WOMEN STUDIES

WST100

Women and Society

3 Credits. 3 Periods.

Introduction to critical issues in women's studies. Prerequisites: None.



WST128

Law and Violence Against Women

3 Credits. 3 Periods.

ICovers cases and materials on systems of oppression particularly as related to women in our society. Areas covered include battering, sexual harassment, sexual assault, prostitution, and pornography as exemplified in present-day society. Designed to give students the ability to identify problems of violence against women and participate in current societal discourse on various ways to resolve them. Prerequisites: None. Cross-References: AJS128WST209

WST200

Essential Feminist Writing

3 Credits. 3 Periods.

Literary tracing of feminism from 18th century to present. Explores major issues related to women in the 20th century. Prerequisites: ENG101 or permission of instructor.

WST209

Women and Films

3 Credits. 3 Periods.

Analysis of images of women in films from both historical and contemporary perspectives. Prerequisites: None.

Cross-References: HUM209





MCCCD Policies and Procedures

Estrella Mountain and all Maricopa Community Colleges are governed by the same policies and procedures which include information about nondiscrimination, compliance with regulations, health concerns, admissions, residency guidelines, financial assistance, academic advising, assessment, articulation, registration, tuition and fees, refunds, attendance, grading, records, and scholastic and disciplinary standards.



MARICOPA COUNTY COMMUNITY COLLEGE DISTRICT

The following are a portion of the Administrative Regulations used in managing the day-to-day operations of the Maricopa County Community College District (MCCCD) and are subject to change. Administrative Regulations are amended, adopted or deleted as necessary and are subject to a formal approval process. Administrative Regulations are referenced as "AR" followed by a regulation number, which corresponds with the regulations on the MCCCD website:

http://www.dist.maricopa.edu/gvpolicy/adminregs/adminregs_toc.htm. Some regulations include reference to Arizona Revised Statues from the State of Arizona and are noted as "A.R.S." followed by a reference number.

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 orienta-

tion, 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

Vice President of Student Affairs ADA/504/Title IX Coordinator EMCC, 3000 N. Dysart Road, Avondale, Arizona 85323 Telephone (623) 935-8814

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 física o mental referente a cualquier posición para la cuál el aplicante o empleado ha calificado. Maricopa promete tomar acción afirmativa para emplear, dar ascenso en empleo y tratar a dichos individuos con incapacidades sin hacer incapie en sus incapacidades físicas o mentales en la selección de recursos humanos y prácticas decisivas como son las siguientes: anuncios, beneficios, compensación, disciplina (incluyendo período de prueba, suspensión, y/o terminación de empleo por causa de paro forzoso), facilidades para empleados, evaluación de trabajo, 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 período 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

Vice President of Student Affairs , ADA/504/Coordinador del Título IX

EMCC, 3000 N. Dysart Road, Avondale, Arizona 85323 Telefónico (623) 935-8814

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.

MARICOPA COMMUNITY COLLEGES

VISION

A Community of Colleges...Colleges for the Community

... working collectively and responsibly to meet the life-long learning needs of our diverse students and communities.

MISSION

The Maricopa Community Colleges provide access to higher education for diverse students and communities.

We focus on learning through:

University Transfer Education

General Education

Developmental Education

Workforce Development

Student Development Services

Continuing Education

Community Education

Civic Responsibility

Global Engagement

VALUES

The Maricopa Community Colleges are committed to:

Community

We value all people – our students, our employees, their families, and the communities in which they live and work. We value our global community of which we are an integral part.

Excellence

We value excellence and encourage our internal and external communities to strive for their academic, professional and personal best.

Honesty and integrity

We value academic and personal honesty and integrity and believe these elements are essential in our learning environment. We strive to treat each other with respect, civility and fairness.

Inclusiveness

We value inclusiveness and respect for one another. We believe that team work is critical, that each team member is important and we depend on each other to accomplish our mission.

Innovation

We value and embrace an innovative and risk-taking approach so that we remain at the forefront of global educational excellence.

Learning

We value lifelong learning opportunities that respond to the needs of our communities and are accessible, affordable, and of the highest quality. We encourage dialogue and the freedom to have an open exchange of ideas for the common good.

Responsibility

We value responsibility and believe that we are each accountable for our personal and professional actions. We are responsible for making our learning experiences significant and meaningful.

Stewardship

We value stewardship and honor the trust placed in us by the community. We are accountable to our communities for the efficient and effective use of resources as we prepare our students for their role as productive world citizens.



COMPLIANCE WITH POLICIES, RULES, REGULATIONS

General Regulations (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/ ENROLLMENT

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

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.
- 3. Is 18 years of age or older and demonstrates evidence of potential success in the community college.
- 4. Is a transfer student in good standing from another college or university.

B. Admission of Students Under 18 Years of Age

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

C. Admission of Students in Special Status

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

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

1. Is beyond the age of compulsory high school attendance and has met the established requirements for the courses for which he or she plans to enroll based on the college assessment examinations, or



- 2. Is under the age of 18 and has taken the appropriate college assessment tests in order to demonstrate the knowledge of the necessary academic skill level to benefit from the course. Departments may have additional requirements to register for a course. (Signature of parent or guardian is required for students under 18), or
- 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 section B or C 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.

E. Western Undergraduate Exchange Program

The Western Undergraduate Exchange (WUE) program is a student exchange program coordinated by the Western Interstate Commission for Higher Education (WICHE), and administered by the Arizona Board of Regents. Through WUE, students who reside in western states (Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming) and meet the eligibility requirements, pay 150 percent of the regular resident tuition plus fees. Students must mark prominently on the Student Information Form that they seek admissions as WUE students. Students may not apply as out-of-state students and expect to receive the WUE tution rate after admitted. Once admitted as WUE students, students may not petition for in-state residency. Further information may be obtained from the Office of Admissions and Records.

F. 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 hprovide proof of secondary school with documentation comparable to a United States high school diploma or higher degree. 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 computerbased test) or 61 (on the internet-based TOEFL, known as the iBT. 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

2. Admission to the Intensive English Program

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

- At least six years of English language instruction as shown by the applicant's school transcript(s);
- b. A minimum TOEFL score of 400 (on the traditional TOEFL) or 97 (on the computer-based test) or 23 (on the internet-based test, known as the IBT);
- 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 unless and until they have met all of the prerequisites or other course requirements.

231



e. 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 10 months to be:

Tuition and fees: $$6,400^1$ Living Expenses: $8,700^2$ Books: 800^3 Health Insurance: 950^4 Total $$17,800^5$

4. Dependent Financial Guarantee

Evidence of financial support for dependents of F-1 students (spouse and dependent children) is also required: \$5,000 for the first dependent and \$2,500 for each additional dependent

5. Health Insurance

All F-1 students who have an I-20 issued by one of the Maricopa Community Colleges are required to purchase the Maricopa Community College's international student health insurance plan. Health insurance coverage for dependents of F-1 students is highly recommended. The Maricopa Community Colleges contracts with an insurance provider annually to offer a health insurance plan for F-1 students. For more information contact the college office of admissions and records or designated international student office.

Footnotes:

- (1) Based 2005-06 tuition and fee schedule.
- (2) Based on estimated living expenses for 2 semesters (10 months).
- (3) Based on average new and used textbook prices. Assumes books are sold at the end of the semester.
- (4) Based on 2005-06 insurance premiums 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

1. Freshman - A student who has completed fewer than 30 credit hours in 100-level courses and above.

- 2. 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

Disclosure of the social security number is voluntary (A.R.S. §15-1823). However, students must use social security numbers for reporting information pertaining to potential educational tax credits and for processing federal financial aid applications and Veterans Administration benefits.

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 for Tuition Purposes (Appendix A)

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

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

Residency for tuition purposes is determined in accordance with state law (A.R.S. §15-1801 *et. sec.*) and regulations of the Maricopa Community Colleges Governing Board. 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

- 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 full-time or part-time student for a normal academic year since the beginning of the period for which continuous attendance is claimed. Students need not attend summer sessions or other such intersession beyond the normal academic year in order to maintain continuous attendance.

"County resident" means an individual who has lived in the county for at least fifty (50) days before the first day of classes of the semester.

"Domicile" means a person's true, fixed, and permanent home and place of habitation. It is the place where he or she intends to remain and to which he or she expects to return when he or she leaves without intending to establish a new domicile elsewhere.

"Emancipated person" means a person who is neither under a legal duty of service to his parent nor entitled to the support of such parent under the laws of this state.

"Full-time student" means one who registers for at least twelve (12) credit hours per semester.

"Part-time student" means one who registers for fewer than twelve (12) credit hours per semester.

"Parent" means a person's father, or mother, or if one parent has custody, that parent, or if there is no surviving parent or the whereabouts of the parents are unknown, then a guardian of an unemancipated person if there are not circumstances indicating that such guardianship was created primarily for the purpose of conferring the status of an in-state student on such unemancipated person.

Criteria for Determining Residency In-State Student Status

A. Except as otherwise provided in this article, no person having a domicile elsewhere than in this state is eligible for classification as an in-state student for tuition purposes.

- B. A person is not entitled to classification as an in-state student until he or she is domiciled in this state for one year preceding the official starting day of the semester, except that a person whose domicile is in this state is entitled to classification as an in-state student if:
 - 1. The person's 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.
 - The person 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.
 - 3. The person 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 instate 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 instate student if he or she is eligible for classification as an instate student pursuant to this paragraph.
 - 4. The person's spouse has established domicile in this state for at least one year and has demonstrated intent and financial independence and is entitled to claim the student as exemption for state and federal tax purposes or the person's spouse was temporarily out of state for educational purposes, but maintained a domicile in this state. If the person is a non-citizen, the person must be in an eligible visa status pursuant to federal law to classify as an in-state student for tuition purposes.
- C. The domicile of an unemancipated person is that of such person's parent.
- D. An unemancipated person who remains in this state when such person's parent, who had been domiciled in this state, removes from this state is entitled to classification as an in-state student until attainment of the degree for which currently enrolled, as long as such person maintains continuous attendance.
- E. A person who is a member of the Armed Forces of the United States and who is stationed in this state pursuant to military orders or who is the spouse or a dependent child of a person who is a member of the armed forces of the United States and who is stationed in this state pursuant to military orders is entitled to classification as an in-state student. The student does not lose in-state student classification while in continuous attendance toward the degree for which he or she is currently enrolled.



- F. A person who is a member of the armed forces of the United States or the spouse or a dependent of a member of the armed forces of the United States is entitled to classification as an in-state student if the member of the armed forces has claimed this state as the person's state of home record for at least twelve consecutive months before the member of the armed forces, spouse or dependent enrolls in a university under the jurisdiction of the Arizona Board of Regents or a community college under jurisdiction of a community college district governing board. For purposes of this subsection, the requirement that a person be domiciled in this state for one year before enrollment to qualify for in-state student classification does not apply.
- G A person who is honorably discharged from the armed forces of the United States shall be granted immediate classification as an in-state student on honorable discharge from the armed forces and, while in continuous attendance toward the degree for which currently enrolled, does not lose in-state student classification if the person has met all of the following requirements:
 - 1. Declared Arizona as the person's legal residence with the person's branch of service at least one year prior to discharge from the armed forces.
 - 2. Demonstrated objective evidence of intent to be a resident of Arizona which, for the purposes of this section, include at least one of the following:
 - a. An Arizona driver 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 depart ment of revenue during the previous tax year.
- H. A person who is a member of an Indian tribe recognized by the United States Department of the Interior whose reservation land lies in the state and extends into another state and who is a resident of the reservation is entitled to classification as an in-state student.

Alien In-State Student Status

- A. An alien shall be classified as an in-state student if the alien can establish that on or before the official starting date of the semester the alien meets one of the following situations:
 - 1. Has been domiciled in the state for at least one year immediately preceding the official starting date of the semester.
 - 2. Is domiciled in this state and:
 - 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 Recog nized Foreign Member Government to International Staff
 - 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
 - V Spouses and Dependent Children of Lawful Permanent Residents
 - I-688 Employment Authorization
- C. Students who hold visas as listed in section B above, or who were issued a visa of a type other than those listed in section B above and have submitted an I-485 to Citizenship and Immigration Services (CIS) or have been out of status for at least one year, may establish domicile by complying with paragraphs A1, A2 or A3 above. In establishing domicile, the alien must be in a status that does not prohibit establishing domocile in this state for at least one year immediately preceding the official starting date of the semester.

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

- hold a valid visa of a type as listed in paragraph B., or
- 2. have never held a visa, or
- 3. have been issued a visa of a type other than those of the foregoing categories but be out of status for at least one year.
- D. A person's status as an undocumented or illegal alien shall not preclude that person from being able to qualify as an in-state student on the same terms as other persons.
- E. An alien is entitled to classification as an in-state refugee student if such person has been granted refugee status in accordance with all applicable laws of the United States and has met all other requirements for domicile.

Presumptions Relating to Student Status

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

- A. No emancipated person has established a domicile in this state while attending any educational institution in this state as a full-time student, as such status is defined by the community college district governing board 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
- i) Notarized statement of landlord and/or employer
- j) Bank accounts
- k) Other relevant information

B. County Residency

- 1. An affidavit signed by the student must be filed with the person responsible for verifying domicile to prove continuous residency in a county for fifty (50) days, and
- 2. Any of the following may be used to determine a student's county residency:
 - a) Notarized statements of landlord and/or em ployer
 - 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) (Appendix C)

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 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 Course Placement Process (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. Credit awarded through prior learning will be posted to a student's transcript upon completion of one or more credit hours (other than by prior learning) at the college granting credit. 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. Educational Experiences in the Armed Services

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

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



b. 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. College Credit Recommendation Service (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
- b. credit meets a program requirement or is used as elective credit.

3. Departmental Credit By Evaluation

Students may apply for Departmental Credit By Evaluation in certain courses by obtaining the appropriate form in the Office of Admissions and Records, and completing applicable paperwork and other requirements of the college, including payment of required fee. See fee schedule 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;
- b. the evaluation of a course while currently enrolled in the course;
- c. 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 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. Credit awareded through Credit by Evaluation will be posted to a student's transcript upon completeion of one or more credit hours (other than by prior learning) at the college granting the credit. 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 as guidelines 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.

1. 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:

Exam	Score	Credit Hours/Equivalency
English-Language and		6 credit hrs/ENG101, ENG100, AA
Compostion	4 or 5	AC, AD, eligible for Honors ENG102
English Literature and		6 credit hrs/ENG101 ENG110 eligible
Composition	4 or 5	for Honors ENG102

Math AP Recommendation:

Exam	Score	Credit for Course
Math-Calculus AB	3, 4 or 5	MAT220 or MAT221
Math-Calculus BC	3	MAT220 or MAT221
Math-Calculus BC	4 or 5	MAT220 or MAT221, and MAT230
		or MAT231 upon completion of
		MAT241
Computer Science A		
and AB	4 or 5	CSC100

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.

Rio Salado College and Paradise Valley Community College are national CLEP test sites. For more information on registering for CLEP examinations, contact Rio Salado College or Paradise Valley Community Colleges.

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, 102,
				201)
202	62-80	63-80	60-80	16 (101, 102,
				201, 202)

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

3. 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. American College Testing Proficiency Examination Program

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

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;
- b. to challenge a course while currently enrolled in the course;
- c. 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. Credit awarded through Departmental Credit By Examination will be posted to a student's transcript upon completion of one or more credit hours (other than by prior learning) at the college granting the credit.



COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

Examination	G	Sem.	MCCCD
General	Score	Hrs.	Equivalency
English Compostion	50 (Iuly 1, 2001 on later)	3	With Essay qualifies for ENC 101
English Compostion	50 (July 1, 2001or later) 610 (1986 version),	3	With Essay qualifies for ENG101
	500 (1978 version)		
Humanities	50 (July 1,2001 or later)	6	Elective Credit
Tumamues	500 (prior to July 1,	0	Elective Cledit
	2001)		
Mathematics	50(July 1, 2001 or later)	3	MAT122
with the control of t	500(prior to July 1,		11111122
	2001)		
Natural Sciences	50(July 1, 2001 or later)	8	Elective Credit*
	500 (prior to July 1,		
	2001)		
Social Sciences & History	50(July 1, 2001 or later)	8	Elective Credit
	500 (prior to July 1,		
	2001)		
Subject			
Accounting, Principles of	ACE Score	6	ACC Elective Credit
American Government	50	3	POS110
American Literature	ACE Score	6	ENH241, 242
Analyzing & Interpreting Literature	ACE Score	3	Elective Credit
Biology	ACE Score	8	BIO Elective Credit*
Calculus (Calculus with Elem Functions) Chemistry	ACE Score ACE Score	9	MAT221 CHM Elective Credit*
College Algebra (1993) replaces College	ACE Score	9	CHIVI Elective Credit*
Algebra (1979)	ACE Score	3	MAT152
College Algebra and Trigonometry	ACE Score	3	MAT152 MAT152
English Literature	ACE Score	3	Elective Credit
French Language	50-54	4	FRE101
French Language	55-61	8	FRE101, 102
French Language	62-65	12	FRE101, 102, 201
French Language	66-80	16	FRE101, 102, 201, 202
Freshman College Composition	ACE Score	3	With Essay ENG101
German Language	39-45	4	GER101
German Language	46-50	8	GER101, 102
German Language	51-59	12	GER101, 102, 201
German Language	60-80	16	GER101, 102, 201, 202
Human Growth & Development	ACE Score	0	No Credit
Information Systems & Computer	A CTE C		GTG FIL. d. G. IV
Applications	ACE Score	3	CIS Elective Credit
Intro to Educational Psychology	ACE Score ACE Score	3	EDU Elective
Introductory Business Law		3	GBS Elective Credit PSY101
Introductory Psychology Introductory Sociology	50 ACE Score	3	SOC101
Mathematics, College	ACE Score	3	MAT142
Macroeconomics, Principles of (replaces	TICE SCORE	3	111111111111111111111111111111111111111
Introductory Macroeconomics)	ACE Score	3	ECN111
Management, Principles of	ACE Score	3	MGT Elective Credit
Marketing, Principles of	ACE Score	3	MKT271
Microeconomic, Principles of (replaces			
Introductory Microeconomics)	ACE Score	3	ECN112
Spanish Language	50-54	4	SPA101
Spanish Language	55-65	8	SPA101, 102
Spanish Language	66-67	12	SPA101, 102, 201
Spanish Language	68-80	16	SPA101, 102, 201, 202
Trigonometry	ACE Score	3	MAT182
U.S. History I - Early Colonization to 1877	ACE Score	6	HIS103
U.S. History II - 1865 to the Present	ACE Score	3	HIS104
Western Civilization I - Ancient Near East	A CE C		1110100101
to 1648	ACE Score ACE Score	6	HIS100 or101 HIS102
Western Civilization II - 1648 to the Present			111631117



ADVANCED PLACEMENT CREDIT

Examination	Score	Sem. Hours	MCCCD
Art-History	5 or 4	6	ARH101, 102
•	3	3	ARH101 or 102
Art-Studio-Drawing	5	6	ART111, ART112
<u> </u>	4	3	ART111
Art - Studio- General	5	6	ART111, ART112
	4	3	ART112
Biology	5 or 4	8	BIO181, 182
<i>-</i>	3	4	BIO100 or Equivalent
Chemistry	5 or 4	8 or 9	CHM151/151LL and CHM152/152LL or
•			CHM154/154LL
	3	4	CHM151, 151LL
Computer Science A	5 or 4	3	CSC100
Computer Science AB	5 or 4	3	CSC100
Economics- Introductory Macro-	5 or 4	3	ECN111
economics	0 01 .		
Economics- Introductory Micro-	5 or 4	3	ECN112
economics	3 01 1		
English - Language & Composition	5 or 4	6	ENG100AA,AC,AD,&ENG101
English - Literature & Composition	5 or 4	6	ENG101 & ENH110
Environmental Science	5 or 4	3	No Credit
French - Language	5, 4 or 3	16	FRE101, 102, 201, 202
French - Literature	5, 4 or 3	16	FRE101, 102, 201, 202
German - Language	5, 4 or 3	16	GER101, 102, 201, 202
German - Literature	5, 4 or 3	16	GER101, 102, 201, 202 GER101, 102, 201, 202
History - American	5 or 4	6	HIS103, HIS104
History - European	5 or 4	6	HIS103,1113104 HIS101,102
Thistory - European	5	16	LAT101, 102, 201, 202
Latin Language	4	12	LAT101, 102, 201, 202 LAT101, 102, 201
Latin Language	3	8	LAT101, 102 LAT101, 102
Mathematics - Calculus AB	5, 4 or 3	4 or 5	MAT220 or MAT221
Mathematics - Calculus BC	5 or 4	8 to 10	MAT220 or MAT221 & MAT230 or MAT231 upon
Wathematics - Calculus BC	3014	0 10 10	completion of MAT241
	3	5	MAT220 or MAT221
Music	5 or 4	3	MTC105
Physics B	5	8	PHY111,112
Physics C - Electricity & Magnetism	5	5	PHY116 - with calculus and laboratory course work
r hysics C - Electricity & Magnetishi	3	4	or PHY112 - with laboratory course work
Physics C - Mechanics	5	5	PHY115 - with calculus and laboratory course work
Filysics C - Mechanics	3	4	or PHY111 - with laboratory course work
Political Science American Covernment	5 om 1		_
Political Science - American Government	5 or 4 5 or 4	3	POS110 POS140
Political Science - Comparative Government and Politics	3014	3	1 00140
	5 09 1	3	PSY101
Psychology Spenich Language	5 or 4		
Spanish - Language	5,4 or 3	16	SPA101, 102, 201, 202
Spanish - Literature Statistics	5, 4 or 3	16	SPA101, 102, 201, 202
Statistics	5, 4 or 3	3	MAT206



INTERNATIONAL BACCALAUREATE DIPLOMA/CERTIFICATE CREDIT

6. International Baccalaureate Diploma/Certificate
Students who present an International Baccalaureate Diploma/Certificate may qualify for college credit. Maricopa
Colleges grant credit for college-level courses only. Credit is awarded according to the "International Baccalaureate Diploma/Certificate Credit" table.

Examination	Score	Sem. Hours	MCCCD
Art/Design	7, 6, or 5	6	ART111, 112
	4	3	ART112
Biology	7, 6, or 5	8	BIO181, 182
	4	4	BIO181
Chemistry	7, 6, or 5	9	CHM151, 152
	4	4	CHM151
Economics	7, 6, or 5	6	ECN111,112
	4	3	ECN111
English A	7, 6, or 5	6	ENG101,ENG100AB,AC,AD
	4	3	ENG100AB,AC,AD
English B	No Credit	-	None
Foreign Language A or B*	7, 6, or 5	8	Foreign Language 101, 102
	4	4	Foreign Language 101
History - American	7, 6, or 5	6	HIS103, 104
	4	3	HIS103
History - European	7, 6, or 5	6	HIS101, 102
	4	3	HIS101
Mathematics	7, 6, 5, or 4	4	MAT221
Physics	7, 6, or 5	8	PHY111,112
	4	4	PHY111



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 or by email at ican@domail.maricopa.edu. Website: http://healthcare.maricopa.edu/healthcarecourses.php. 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.

Credit by Examination and Credit by Skills Demonstration Assessment

Health care students may apply for credit for prior learning in certain courses. Specific information an required forms can be found on http://healthcare.maricopa.edu/ healthcarecourses.php. 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;
- b. 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.



Transfer Articulation Guidelines (Appendix B) Transfer Articulation with Secondary Institutions, the Maricopa Skills Center, and the Southwest Skill Center 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.

Transfer Articulation from Arizona Public Community College Districts and Universities 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/academic/curric/curricrpts.php - Select Tab labeled Curriculum Procedures Handbook-Programs, Select Academic Programs, Select AGEC Course Matrix

Transfer Articulation from the Maricopa Community Colleges to Baccalaureate Degree-Granting Institutions

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.

Transfer Options for Maricopa Community Colleges Associate in Applied Science Degrees

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 on the following page.



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/tranguid/

Northern Arizona University

http://www4.nau.edu/aio/articulation/tginfo.htm

University of Arizona

http://transferguides.arizona.edu

Arizona Course Applicability System (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 COURSE PLACEMENT PROCESS (AR 2.2.7)

The Maricopa Community Colleges are committed to providing students with opportunities for successful academic experiences. Student academic achievement is directly related to the proper initial course placement. Students are strongly urged to enroll in the courses indicated by their course placement tests. Initial course 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. Testing for Course Placement

- Students will be required to complete a course placement test under any one of the following con ditions:
 - 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 course placement scores 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 and is taking his or her first English as a Second Language class is required to take a test of English proficiency.
- 2. Students will be strongly encouraged to complete a course placement test under any one of 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.
- 3. Students MAY be exempt from a course place ment test if at least one of the following conditions apply:
 - The student has earned an associate or higher degree.
 - The student has earned college credits from a regionally accredited college 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 has currently valid district approved course placement scores on file.

Note: Being exempt from taking a course placement test does not exempt the student from fulfilling the minimum graduation requirements.

B. Course Placement

- Students will be advised for specific course enrollment based on highest test or retest scores.
- Students with test scores that fall into the range described as a "decision zone" must receive advisement to select appropriate course(s).
- Students will be permitted one re-test in English, reading or by math level after at least a 24-hour waiting period. An additional retest is permitted one year from the date of student's original or re-test at any course placement testing site.
- The vice president of student affairsor designee may approve re-testing for students with special needs or circumstances. The retest date will then serve as the date of record.



Students may request a Course Placement Waiver from the appropriate department/ division chair or college designee. The signed waiver will be noted on the student's record and will be kept on file in the Office of Admissions and Records.

C. Implementation of Policy

To ensure consistency of the course placement process within the Maricopa Community Colleges:

- All colleges shall accept the same approved course placement instruments.
- All colleges shall adhere to the same approved cut-off scores.
- Course placement scores, with the exception of the reading exemption, will be valid for two years from the date of the original or re-test.

D. Evaluation

The Maricopa Community Colleges will provide an ongoing evaluation of the course 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.

ACADEMICADVISING (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 pur pose 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 alterntive careers through counselors, workshops, seminars, and other resources.
- make course, certificate, and/or degree selections.
- understand and utilize placement test results.
- be encouraged to be active participants in their educational planning and college life.
- be informed of support services that are available and how to make an appointment, if appropriate.
- be aware of transfer articulation arrangements.
- be informed about research results and general perceptions of student experiences at the institution.
- receive accurate printed materials on academic majors, minors, and other degree and program requirements.
- 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 the Admissions section. The college may allow early or priority registration. Tuition and fees must be paid by the due date to secure class enrollment. 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 Tuition and Fees Schedule for charges for other official transcripts.



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

Residency for tuition purposes is determined in accordance with state law (A.R.S. §15-1801 *et. sec.*) and regulations of the Maricopa Community Colleges Governing Board. 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, 2006 for Fall, Spring and Summer Sessions)

The following is a tuition and fees schedule for 2006-2007 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: \$63.50 plus fees: \$1.50	\$65.00
2.	County Resident - Audit rate- per credit hour Audit fee Surcharge: \$25.00 plus General Tuition: \$63.50 plus Fees: \$1.50	\$90.00
3.	Out-of-County Resident (7 & more credit hourss system-wide) - per credit hour Out-of-County Surcharge: TBD (Applies only to counties with no community college) plus General Tuition: \$63.50 plus Fees: \$1.50	TBD
4.	Out-of-State Resident* (including F-1 Non-immigrants - 7 & more credit hours system-wide) - per credit hour Out-of-State Surcharge: \$215.00 plus General Tuition: \$63.50 plus Fees: \$1.50	\$280.00
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: \$63.50 plus Fees \$1.50.	\$90.00
6.	Out-of-State Students participating in Western Undergraduate Exchange Program* (any number of credit hours) - per credit hour WUE Out-of-State Surcharge: (\$32.50 plus General Tuition: \$63.50 plus fees: \$1.50	\$97.50
7.	Courses offered out of Arizona, including distance learning, to non-resident out-of-state student** Total tuition per credit hour	\$159.00
8.	Corporate Tuition Rate- Out-of-State* (any number of credit hour) for out-of-state employees of companies in training contracts with Maricopa - per credit hours Out-of-State Surcharge: \$76.00 plus General Tuition: \$63.50 plus Fees: \$1.50	\$141.00
9.	Corporate Contract - Out-of-State Non-Resident Total Tuition per credit hours	\$125.00
10.	Skill Center Tuition Rates Hourly Tuition: Nursing Asst & Practical Nursing Programs:	\$4.10 \$5.10
11.	Credit by Examination & Credit by Evaluation -per credit hours - excludes HCIES Courses Regular Rate: Contract Testing Rate:	\$63.50 \$31.75

Students from the following counties are considered out-ofcounty 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 incounty due to a reciprocal arrangement with that county.

- *According to A.R.S., 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.



The following are fees are in addition to applicable	GED- First Test
tuition and fees:	Test repeat (per section)
	General Laboratory & Course Fees not to exceed \$ 25.00
Check Returned from Bank\$15.00	Graduation Fees:
Child Care Fees: (per clock hour)	Application/Recording/Issuance Fee (Degrees/Certificates
GCC\$1.75	- 25 or more credits) non refundable
- Drop in	Commencement Fee (One time fee refundable up to 2 weeks
- For each 15 minutes of late pick-up	prior to graduation)
- Registration per semester - Students	HCIES Skills Demonstration
GWCC – Students	Assessment Fee actual cost
- Staff & Faculty	HESI-PN (Health Educ System actual cost
- For each minute of late pick-up	Library Fines - lost materials (List price) +\$ 5.00
- Registration per semester	NET - Nursing Entrance Test actual cost
MCC – Students	Nursing - Nursing 181, 281
- Drop in	Nursing 169, 189, 269, 289
- Faculty & Staff	Nursing 167, 267
- Registration per semester – Students	Nursing 157
- Registration per semester – Staff & Faculty 25.00	Parking Fines:
- For each 15 minutes of late pick-up	(All fines are doubled if not paid within 15 working days.)
- For every week payment is late	Fee are subject to change upon adoption of the schedule for
PC	the new fiscal year. For current fee amounts, please contact
- For each 15 minutes of late pick-up 15.00	College Safety or visit: http://www.dist.maricopa.edu/gv
PVCC	policy/adminregs/students/2_10.htm)
- Registration per semester	-Displaying an altered or substituted permit
- Supply Fees	-Failure to register a vehicle and display a parking permit
- For each 15 minutes of late pick-up 5.00	andre to register a venicle and display a parking perint
SCC – Students	-Falsifying information on vehicle registration application
- Staff & Faculty	
- Overtime Fee - Student	-Improperly displaying a parking permit (ie., not affixed to
- Overtime Fee - Faculty & Staff	window)
- Registration per semester – Students	-Obstructing a properly parked/moving vehicle 15.00
- Registration per semester – Staff & Faculty 40.00	-Parking in an unauthorized parking area
- Contract Changes (2+)	-Parking by a college employee or student in a visitor area
- For each 15 minutes of late pick-up 5.00	15.00
- For every week payment is late 5.00	-Parking in a Fire Lane
SMC – Students	-Parking on or blocking a pedestrian path 15.00
- From 9 am to 12 pm Preschool per week	-Parking outside stall lines
- Staff & Faculty	-Parking beyond posted time limit
- From 9 am to 12 pm per week	- Removing a barricade or failure to obey vehicle control
- Registration per semester 10.00	device
- For each 15 minutes of late pick-up 5.00	- Violating disabled parking stall or access 50.00
All other colleges 1.75	PED Special Course Charge actual cost
College Level Examination Program (CLEP) - Paradise Valley .	Private Music Lessons:
	Music Majors:
Course Materials Fee actual cost	-First 1/2 hr per wk/per semester
Dental Hygiene Skills Enhancement- Rio Salado	- Each additional 1/2 hr per wk/per semester 90.00
	- First 1/2 hr per wk/per semester
8 hour block: 320.00	Non-Music Majors:
Distance Learning Fees	- Each additional 1/2 hr per wk/per semester 320.00
Electronic Health Record Student Access Fee actual cost	Registration Processing Fee -
Emergency Medical Technology (EMT) actual cost, not	(- assessed on a per student, per semester, per college
to exceed	basis) Refundable only if the student drops all credit classes
Excessive Laboratory Breakage actual cost	at a particular college during the 100% refund period 15.00
Field Studies	*Skill Centers Material Fee - See Schedule
Field Trips & Out-of-County/County Tours actual cost	- Specific clothing & headwear issued to students - prorated
Fitness Center	for course of program less than 21 days 250.00



*Skill Center Material Fee:

The Skill Centers do not operate bookstores. Instead a standard Books/Lab/Materials Fee of \$250 per section covers all books/lab cost, materials, and job-specific clothing and headwear issued to students. The standard \$250 fee is prorated for students enrolled in a course of program less than 21 days long. The average training length of 5-7 months includes many courses in which the first \$250 fee covers all books and materials. The additional assessment of the \$250 fee for courses with high books and material costs is assessed as students pass into advance sections with new books and materials. It is also prorated when the cost are less than \$250. Due to openentry/open-exit scheduling and the changing costs of textbooks the individual course totals for books/lab/materials are listed in campus and program-specific materials.

College Specific Fees:

Students may incur expenses beyond the established fees in certain courses. Please check with the Enrollment Service Area or go directly to the following website:

http://www.estrellamountain.edu/instructservices CourseFeesForEMCC_MainPg.html

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.
- 3. If other attempts fail, the Maricopa Community Colleges District Office will either collect or use other means available, including:
 - a) collection agency, requiring payment of collection fees by the student;
 - b) the Tax Refund Setoff Programs as stated in A.R.S. §42-133;
 - c) litigation, requiring payment of court costs and legal fees by the student.

D. Discounted Fees and Waivers

- 1. 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
- Employees, Dependents and Mandated Groups: 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.
- 3. Tuition and Registration Fee Waiver for members of the Pima-Maricopa Indian Community: 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. All other guidelines and procedures established for the purpose of administering waivers, affidavits and exemptions are outlines in the Maricopa Community Colleges tuition waiver manual.

REFUND POLICY (AR 2.2.10)

A. Refund Policy for Credit Classes

Students who officially withdraw from credit classes (in fall, spring, or summer) within the withdrawal deadlines listed below will receive a 100% refund for tuition, class and registration processing fees. Deadlines that fall on a weekend or a college holiday will advance to the next college workday except for classes fewer than 10 calendar days in length or a specified by the college. Calendar days include weekdays and weekends. Refer to individual colleges for withdrawal and appeal processes.

Length of Class

1-9 calendar days 10-19 calendar days 20-29 calendar days 30-39 calendar days 40-49 calendar days 50-59 calendar days 60-69 calendar days

Official Withdrawal Deadlines for 100% Refund*

Prior to class start date

1 calendar day including class start date 2 calendar day including class start date 3 calendar day including class start date 4 calendar day including class start date 5 calendar day including class start date 6 calendar day including class start date 7 calendar day including class start date

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

Debts owed to any MCCCD college must be satisfied before any refunds are paid to student.

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

B. Refund Policy for Non-Credit Classes

Unless otherwise specified, students must drop non-credit classes prior to the course start date to be eligible for a 100% refund.



C. Canceled Classes

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

D. 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 or designated college official:

- 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 partial 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.

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.

The Maricopa Community Colleges Foundation offers a variety of scholarship opportunities. Scholarship opportunities are available year round. However, most scholarships are posted mid-January and most deadlines are the last week of March. Options are available at www.maricopa/resdev/scholarships/apply.php or by call 480-731-8400.

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.

L Evaluation of Financial Aid Eligibility

- A. Standards of Satisfactory Academic Progress (SAP) are applied at least 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 2006-2007 academic year, academic progress will be evaluated on Spring 2006, Fall 2005, and Summer 2005).
- 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
 - 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.
- E. Reinstatement procedures as outlined in VI are not applicable to Maximum Time Frame Eligibility.

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

- Financial aid may be used to cover the cost of repeated courses.
- B. Audited courses, non-credit courses, credit by examination, and any credit for prior learning option (as outlined in the catalog) are excluded when determining eligibility for financial aid.
- C. Courses funded through a consortium agreement are included in determining academic progress.

- D. All attempted remedial credits will be included when evaluating SAP. (A maximum of 30 remedial credit hours, excluding ESL courses, may be funded.)
- E. Enrollment in any or all summer sessions within the same calendar year will be considered one term.

V. Appeal Process

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

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

VI. Reinstatement of Financial Aid Eligibility

- A. A student who has lost financial aid eligibility may be reinstated after the student has taken (without federal funds) at least six credit hours in a semester, passed all attempted credit hours, and meets minimum cumulative GPA requirements.
- B. If the student attempts more than six hours, the student will be evaluated on all attempted credit hours within that term.
- C. Classes taken at other colleges will not be taken into consideration for reinstatement purposes.
- D. It is the student's responsibility to notify the 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 courses that apply to the student's approved program. 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 and the length of the enrollment period for each course.

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

The following guidelines are for institutional purposes. Rules regarding academic load for financial aid eligibility, veteran benefits and athletic eligibility may be defined differently.

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

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

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

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

Students who are working, have considerable extra-curricular or co-curricular activities, or have been reinstated from academic suspension/probation should plan their academic load accordingly.



SCHEDULE CHANGES

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

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 vice president or designee 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, faculty member 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. Official grades are available on designated college websites.

Grade Key:

A	Excellent	4 grade points per credit hour
В	Above Average	3 grade points per credit hour
C	Average	2 grade points per credit hour
D	Passing	1 grade point per credit hour
F	Failure	0 grade point per credit hour
I	Incomplete	Not computed in grade point average
IP	Course In Progress	Not computed in grade point average
N	Audit	Not computed in grade point average
P*	Credit	Not computed in grade point average
W	Withdrawn, passing	Not computed in grade point average
Y	Withdrawn, failing (effective Fall 2000)	0 grade point per credit hour
Z	No Credit	Not computed in grade point average

*A"P" is judged to be equivalent to a grade of C or higher.

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 and must meet the same prerequisite requirements or obtain approval of the instructor. 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."

IMPORTANT DEADLINES FOR STUDENTS

IMPORTANT DEADLINES FOR STUDENTS

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

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

	Deadlines that fall on a weekend or noliday advance to the next college work day.							
Class Length	Deadline for Students to Withdraw with Guaranteed Grade of W	Deadline for Students to Withdraw From a Course (Instructor Signature Required)	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 (1 to 7 days)	1 st Day of Class	1 st Day of Class or Prior to the Last Day of Class	1 st Day of Class or Prior to the Last Day of Class	1 st Day of Class	1 st Day of Class	1 st Day of Class		
Two Weeks (8 to 14 days)	3rd Calendar Day	6th Calendar Day	6th Calendar Day	1st Day of Class	1st Day of Class	3rd Calendar Day		
Three Weeks (15 to 21 Days)	6th Calendar Day	12th Calendar Day	12th Calendar Day	2nd Calendar Day	1st Day of Class	5th Calendar Day		
Four Weeks (22 to 28 days)	9th Calendar Day	17th Calendar Day	17th Calendar Day	3rd Calendar Day	2nd Calendar Day	7th Calendar Day		
Five Weeks (29 to 35 days)	12th Calendar Day	23rd Calendar Day	23rd Calendar Day	4th Calendar Day	2nd Calendar Day	9th Calendar Day		
Six Weeks (36 to 42 days)	14th Calendar Day	29th Calendar Day	29th Calendar Day	5th Calendar Day	3rd Calendar Day	11th Calendar Day		
Seven Weeks (43 to 49 days)	17th Calendar Day	35th Calendar Day	35th Calendar Day	5th Calendar Day	3rd Calendar Day	12th Calendar Day		
Eight Weeks (50 to 56 days)	20th Calendar Day	41st Calendar Day	41st Calendar Day	6th Calendar Day	3rd Calendar Day	15th Calendar Day		
Nine Weeks (57 to 63 days)	23rd Calendar Day	46th Calendar Day	46th Calendar Day	7th Calendar Day	4th Calendar Day	17th Calendar Day		
Ten Weeks (64 to 70 days)	26th Calendar Day	52nd Calendar Day	52nd Calendar Day	8th Calendar Day	4th Calendar Day	19th Calendar Day		
Eleven Weeks (71 to 77 days)	29th Calendar Day	58th Calendar Day	58th Calendar Day	9th Calendar Day	5th Calendar Day	21st Calendar Day		
Twelve Weeks (78 to 84 days)	32nd Calendar Day	63rd Calendar Day	63rd Calendar Day	10th Calendar Day	5th Calendar Day	23rd Calendar Day		
Thirteen Weeks (85 to 91 days)	35th Calendar Day	70th Calendar Day	70th Calendar Day	10th Calendar Day	5th Calendar Day	25th Calendar Day		
Fourteen Weeks (92 to 98 days)	38th Calendar Day	76th Calendar Day	76th Calendar Day	11th Calendar Day	6th Calendar Day	27th Calendar Day		
Fifteen Weeks (99 to 105 days)	41st Calendar Day	82nd Calendar Day	82nd Calendar Day	12th Calendar Day	6th Calendar Day	28th Calendar Day		
Sixteen Weeks or more (106 or more days)	End of the seventh week	Two weeks before the last class period	Two weeks before the last class period	Within 14 days including the first class period	Within first week of class	Within first five weeks		

Deadlines are based on calendar days and begin with the first day of class. Deadlines that fall on a weekend or holiday advance to the next college workday.



ACADEMIC PROBATION (PROGRESS) (AR 2.3.4)

A. Probation

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

1. 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 (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

(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

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.

INSTRUCTIONAL GRIEVANCE 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 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 take:

- 1. Discuss the issue with the faculty member in volved. This conference should be requested by the student within fifteen (15) working days from the time the student knew or reasonably should have known about the unfair or unjust treatment.
- 2. If, within ten (10) 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 chair person and appropriate administrative officer at the college/-center. This written complaint must be filed within ten (10) working days following the previous deadline. The written complaint will be given to the faculty member five (5) 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 vice president of academic affairs or designee, a copy of the original written complaint with an explanation regarding action taken at each prior level. The vice president of academic affairs or designee will meet with the student, faculty member, the college faculty senate president if requested by the faculty member, and department/division chairperson and attempt to resolve the issues. This level will be the final step in any grievance process regarding grades.
- 5. If the grievance, other than those concerning grades, is not resolved by the vice president of academic affairs or designee, 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.



NON-INSTRUCTIONAL COMPLAINT RESOLUTION PROCESS (outside the classroom)

A student who feels that he or she has been treated unfairly or unjustly by any employee with regard to a non-instructional process such as a student or administrative services has the right to file a formal and written complaint according to the approved procedures.

Steps for students to take:

- 1. Discuss the issue with the employee involved. The student should request this conference within fifteen (15) working days from the time the student knew or reasonably should have known about the unfair or unjust treatment.
- 2. If, within ten (10) working days of the request for the conference with the employee, the problem is not resolved or the employee has been unable to meet with the student, the student may continue to process by filing a written complaint with the appropriate supervisor of the employee where authority exists to take corrective action. This written complaint will be given to the employee five (5) working days before any official meeting areconvened.
- 3. Upon receipt of a written complaint, the appropriate supervisor will work with the parties in an attempt to resolve the conflict. Every attempt will be made to maintain confidentiality during this process. An employee will not be required to respond to a complaint which is not in writing and which, when appropriate, does not have specific documentation including dates, times, actions, supporting documents, etc. The written complaint will be made available to the employee.
- 4. If the complaint is not resolved at this level within ten (10) working days, the student should forward to the or the appropriate college/-center vice president or designee, a copy of the original written complaint with an explanation regarding action taken at each prior level. The vice president or designee will meet with the student, the employee, and the relevant supervisor and attempt to resolve the issues.
- 5. If the vice president or or designee do not resolve the complaint, the student may forward it in writing to the college president for final resolution. The college president or designee will issue a final written determination in the complain 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." Failure to file an official withdrawal form may result in failing grades and responsibility for course tuition and fees.

WITHDRAWAL PROCEDURES (Appendix G)

A. Withdrawal from Specific Courses

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

- 1. Through the 7th week, a student may initiate an official withdrawal from any course by submitting a course withdrawal form with the required signatures to the Office of Admissions and Records in accordance with the published deadlines. A grade of W (withdrawn, passing not computed in the grade point average) or Y (withdrawn, failing computed in the GPA as a failing grade) will be assigned.
- 2. After the 7th week, a student may initiate a withdrawal. The faculty member 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. A faculty member 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 faculty member. A grade of W will be assigned through the 7th week. After the 7th week, a grade of W or Y will be assigned. Faculty members 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

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 - not computed in the grade point average) or Y (withdrawn, failing - computed in the GPA as a failing grade) will be assigned.

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.

GENERAL GRADUATION REQUIREMENTS (AR 2.3.9)

Note: Also see "Catalog Under Which a Student Graduates (AR 2.2.5) - Page 258

All students are required to complete the degree and/or certificate requirements as approved by the Maricopa Community Colleges 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:

- 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.
- 2. have earned a minimum of 12 semester credit units toward the degree or certificate at the district college granting the degree or certificate. In cases where the certificate requires fewer than 12 credit units, a minimum of six credit unit must be completed at the college awarding the certificate.
- 3. have filed an application for the degree or certificate with the Office of Admissions and Records on the date determined by the college/center.



Students must apply for graduation from the college where they have successfully completed Block 4 of the Associate in Applied Science in Nursing.

- 4. have a minimum cumulative grade point average of 2.000 at the college granting the degree.
- 5. have a minimum cumulative grade point average of 2.000 in all courses used to fulfill degree requirements. Some specific programs have higher grade requirements. It is the student's responsibility to be aware of these program requirements.
- 6. have removed, thirty (30) days after the anticipated graduation date, all deficiencies on the record to use those courses toward program completion.
- 7. have removed any indebtedness to any MCCCD college/center.
- 8. have paid required degree or certificate application fee. See fee schedule for charges.

Graduation Grade Point Average

Students must meet all requirements for graduation. Graduation requires a minimum grade point average of 2.00. Some specific programs have higher grade requirements. It is the student's responsibility to be aware of these program requirements. For more information, see the General Graduation Requirements section.

Graduation with Honors

All courses used to fulfill graduation requirements, including courses from other accredited institutions, will be entered in the grade point average calculation for honors designations.

Students who have the following grade point averages will graduate with the following distinctions:

3.50 to 3.69 "with distinction" 3.70 to 3.89 "with high distinction" 3.90 to 4.0 "with highest distinction"

Graduation – Honors Program

Students who meet all the requirements of the Honors Program at the district college granting the degree will be designated as Honors Program Graduates.

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) General Education Certificate
- (4) Associate in Arts
- (5) Associate in Science
- (6) Associate in Business
- (7) Associate in General Studies
- (8) Associate in Transfer Partnership
- (9) 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 Maricopa Community Colleges 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.

GRADUATE GUARANTEE POLICY

The Governing Board believes so strongly in the quality of its colleges' occupational training programs that it guarantees graduate competence.

- 1. Graduation from an Associate in Applied Science (AAS) is designed to prepare a person for entry-level employment in a specific career field. A graduate's ability to perform approved program competencies will be judged by employers. Should the employer of a graduate who has earned an AAS Degree find the employee lacking in the technical skills normally expected of an entry-level employee in the specific career field for which that graduate prepared, the District will provide the graduate with up to the equivalent of twelve (12) credit hours of retraining for no additional tuition.
- Because technical occupations change rapidly, initial employment in an AAS Degree-related field must occur within one year of graduation from the AAS Degree program in question.

Retraining needs to occur as cost effectively as possible. The graduate's employer must present a list of the graduate's skill deficiencies to the appropriate vice president or designee at the graduate's alma mater. All retraining will be completed in a reasonable time as agreed to by the employer, the student, and the college.



LICENSUREDISCLAIMER

Maricopa Community Colleges courses and programs prepare students for entry into a variety of professions. Many of these professions require that a person hold an occupational license or certificate in order to work in a particular field. Typically, a person must meet certain legal requirements before obtaining such a license or certificate. These requirements are established by county, state or federal agencies, and often are based on a person's character, or whether the person has been convicted of a criminal offense. It is possible for a student who has obtained a degree or certificate from a community college to be denied the right to work in a particular profession after completing the degree or certificate because of concerns over the student's character or criminal background. Any student preparing to enter a field for which a professional license or certificate is required is strongly advised to consult with the appropriate government agency that issues such credentials. That agency can provide the student complete information about any requirements the law imposes for working in a particular occupation.

MCCCD GENERAL EDUCATION STATEMENT

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.

CATALOG UNDER WHICH A STUDENT GRADUATES (AR 2.2.5)

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.

EXAMPLEA:

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)

Transferred to a University Spring '95 (1993 or Any

Subsequent 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)

Transferred to a University Fall '94 (1994 or Any

Subsequent Catalog)

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

EXAMPLE A:

Admitted & Earned Course Credit at a Public Community

College or University Fall '92 (Active) Nonattendance Spring '93, Fall '93, Spring '94

(Inactive)

Readmitted & Earned Course Credit at a Public Community
College Fall 94 (Active)

Transferred to a University Spring '95 (1994 or Any

Subsequent Catalog)

EXAMPLE B:

Admitted & Earned Course Credit at a Public Community

College or University Fall 92 (Active)
Nonattendance Spring '93 (Inactive)
Readmitted & Earned Course Credit at a Public Community
College Summer '93 (Active)
Nonattendance Fall '93, Spring '94 (Inactive)

Transferred to a University Fall '94 (1992 or Any

Subsequent Catalog)

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

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

EXAMPLE:

Admitted & Earned Course Credit at a Public Community
College or University Summer '94 (Active)
Continued at a Public Community College

Fall '94, Spring '95 (Active)

Nonattendance Fall '95 (Inactive)

Readmitted & Earned Course Credit at a Public

Community College Spring '96 (Active)

Transferred to a University Summer '96 (1994 or Any

Subsequent Catalog)

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

University Department Time Limit for Coursework

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

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

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' Sexual Harassment Policy for any employee, student or campus visitor to:

- 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 Equal Employment Opportunity/Affirmative Action Office(480-731-8885). 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 vice president of student affairs or designee 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, vice president of student affairs 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.

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 Collegesaffiliated 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

- 1. 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.
- 3. 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.



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.

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:

- 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.
- 4. Any solicitor who violates this regulation may be deemed a trespasser on college or center premises, and therefore subject to appropriate prosecution within the discretion 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.



STUDENT RIGHTS AND RESPONSIBILITIES

COPYRIGHTACT 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.

What Students Should Know About Copyright What is copyright?

Copyright is a protection afforded under federal law for various types of creative works. A work is copyrightable if it is an original work of authorship fixed in a tangible medium of expression. Copyrightable works include literary, musical or dramatic works; motion pictures and other audiovisual works; choreographic works and pantomimes; sound recordings; and architectural works.

The owner of a copyright in a particular work has the exclusive right to copy, display, perform, distribute, and create a derivative version of the work. Generally, then this means that you may not duplicate, show or perform a copyrighted work unless it is expressly allowed under the Copyright Act or you have the prior permission of the copyright holder.

A copyright exists in a work at the time it becomes fixed in some tangible medium of expression. Neither registration of the copyright with the federal government nor a copyright notice on the work itself is required for copyright protection.

What is copyright infringement?

Generally, copyright infringement occurs when you copy, display, perform, distribute or create a derivative version of a copyrightable work either without the permission of the copyright holder or when such activity is not otherwise allowed under an exception provided by federal copyright law. The penalties for infringement include significant damages—potentially in excess of \$100,000 for each work infringed.

How does copyright law affect information I obtain off the Internet?

Copyright law covers works in both traditional and new media, including digital media. Copyrightable materials are often available on the Internet without any indication of their copyrighted status. As a rule of thumb, you should assume that everything you find on the Internet is copyrighted, unless otherwise labeled. Even popular activities, such as file swapping or copying software, or pictures from the Internet, may be copyright infringement and should be avoided.

The Digital Millennium Copyright Act, which Congress enacted in 2000, affords greater protection for copyright holders of digital works. Generally, then, even if a work appears solely in a digital form, it is likely subject to copyright law protections.

New technology has made many creative works widely available through the Internet. For example, the technology known as Peer to Peer (P2P) allows for the transmission of music, videos, movies, software, video games and other materials—most of which is subject to copyright protection.

Remember that a copyright exists in a work at the time it becomes fixed in some tangible medium of expression. That means that an image you have downloaded from the Internet, as well as a video or musical performance is almost certainly subject to copyright protection.



When you download these works, transfer them to a disk or other medium, or send them to a friend, you are infringing on the rights of the copyright holder. Trafficking in such material without the permission of the copyright holder, then, violates copyright law. This includes unauthorized music file sharing over the Internet.

According to a statement recently issued by representatives of the motion picture, recording and songwriting industries, uploading and downloading copyrighted works over the Internet is theft: "It is no different from walking into the campus bookstore and in a clandestine manner walking out with a textbook without paying for it."

Why is it important for a student to be aware of copyright law?

Copyright infringement is expressly prohibited by the U.S. Copyright Act. Anyone who infringes another's copyright in a creative work is subject to liability, and could be required to pay large sums in damages.

In addition, as the law clearly prohibits copyright infringement, using any college resources—such as photocopiers, desktop and laptop computers, printers, central computing facilities, local-area or college-wide networks, Internet access, or electronic mail—for the purpose of infringing a copyright in any work may be grounds for student discipline. According to Maricopa Community College District administrative regulation, "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."

Moreover, under the Maricopa Community Colleges Computing Resource Standards, a student is prohibited from the "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." The Standards also prohibit "transmitting, storing, or receiving data, or otherwise using computing resources in a manner that would constitute a violation of state or federal law...."

A student who violates these policies, then, can be disciplined at any of the Maricopa Community Colleges. This discipline could include suspension or even expulsion.

Does copyright law allow me to download files from a college web site?

Thanks to recent changes to copyright law colleges and universities are allowed to transmit copyrighted images, recordings, and other materials over the Internet in connection with distance learning offerings. These changes allow for the performance of non-dramatic literary works or musical works, as well as the display of "reasonable and limited portions" of any work in an amount comparable to that typically displayed in a live classroom setting. Use of the works must, however, be "an integral part" of the distancelearning class session, and available solely to students enrolled in the class. In addition, the transmission of the copyrighted works must be under the direction or actual supervision of a faculty member.

Even though the college does not hold the copyright to these works, or even have the express permission of the copyright holder, they may be delivered over the Internet to students in distance learning classes.

The fact that the law authorizes such use of copyrighted materials, though, does not allow a student in these classes to freely download, copy, or re-transmit the works. They are intended solely for use by the institution in connection with distance instruction; any other use would likely constitute a violation of copyright law.

To learn more about copyright, go to: http://www.dist.maricopa.edu/legal/ and click on "Intellectual Property." While you're there, you should read the Maricopa Community Colleges' Copyright Guidelines. You should also review the complete text of the Computer Resource Standards which can be found under the "Information Technology" link. The Standards also appear in college catalogs and student handbooks.

TAPING OF FACULTY LECTURES (AR 3.4)

The Maricopa Community Colleges acknowledge that faculty members are, by law, afforded copyright protection in their class-room 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.



TECHNOLOGY RESOURCE STANDARDS (AR 4.4) Introduction

The Maricopa County Community Colleges District (MCCCD) provides its students and employees access to information resources and technologies. Maricopa recognizes that the free exchange of opinions and ideas is essential to academic freedom, and the advancement of educational, research, service, operational and management purposes, is furthered by making these resources accessible to its employees and students.

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., Maricopa requires users to observe Constitutional and other legal mandates whose aims are to safeguard and appropriately utilize technology resources that are acquired and maintained with public funds.

General Responsibilities

Technology 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 County Community Colleges District are available only to authorized users, and any use of those resources is subject to these Standards. All users of Maricopa's technology resources are presumed to have read and understood the Standards. While the Standards govern use of technology resources District-wide, an individual community college or center may establish guidelines for technology resource usage that supplement, but do not replace or waive these Standards.

Acceptable Use

Use of Maricopa's technology resources, including websites created by employees and students, is limited to educational, research, service, operational, and management purposes of the Maricopa County Community Colleges District and its member institutions. Likewise, images and links to external sites posted on or transmitted via Maricopa's technology resources are limited to the same purposes.

It is not Maricopa's practice to monitor the content of electronic mail transmissions, files, images, links or other data stored on or transmitted through Maricopa's technology resources. The maintenance, operation and security of Maricopa's technology 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 stored on or transmitted through those resources. 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 technology resources.

Frequently, access to Maricopa's technology 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 technology resources by other users, both within and outside the Maricopa community. 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 technology 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 technology resources is prohibited from the unauthorized access to, or dissemination of, confidential records.

Violation of any provision of the Standards could result in immediate termination of a user's access to Maricopa's technology 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 technology resources:

- Posting to the network, downloading or transporting any material that would constitute a violation of Maricopa County Community College District contracts.
- Unauthorized attempts to monitor another user's password protected data or electronic communication, or delete another user's password protected data, electronic communications or software, without that person's permission.
- 3. Installing or running on any system a program that is intended to or is likely to result in eventual damage to a file or computer system.
- 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 that violates the .EDU domain request.
- 6. Use of technology resources for non-Maricopa commercial purposes, including to advertise personal services, whether or not for financial gain.



- 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 non-discrimination policy and its policy against sexual harassment.
- Transmitting, storing, or receiving data, or otherwise using technology resources in a manner that would constitute a violation of state or federal law, or MCCCD policy or administrative regulation including, but not limited to, obscenity, defamation, threats, harassment, and theft.
- Attempting to gain unauthorized access to a remote network or remote computer system.
- 11. Exploiting any technology resources system by attempting to prevent or circumvent access, or using unauthorized data protection schemes.
- Performing any act that would disrupt normal operations of computers, workstations, terminals, peripherals, or networks.
- 13. Using technology resources in such a way as to wrongfully hide the identity of the user or pose as another person.
- Allowing any unauthorized access to Maricopa's technology resources.

Disclaimer

The home page of a website must display, or link to, the following disclaimer in a conspicuous manner: All information published online by MCCCD is subject to change without notice. MCCCD is not responsible for errors or damages of any kind resulting from access to its Internet resources or use of the information contained therein. Every effort has been made to ensure the accuracy of information presented as factual; however errors may exist. Users are directed to countercheck facts when considering their use in other applications. MCCCD is not responsible for the content or functionality of any technology resource not owned by the institution.

The statements, comments, or opinions expressed by users through use of Maricopa's technology resources are those of their respective authors, who are solely responsible for them, and do not necessarily represent the views of the Maricopa County Community College District.

Complaints and Violations

Complaints or allegations of a violation of these standards will be processed through Maricopa's articulated grievance procedures or resolution of controversy. Upon determination of a violation of these standards, Maricopa may unilaterally delete any violative content and terminate the user's access to Maricopa's technology resources. It is the user's responsibility to demonstrate and/or establish the relevance of content in the event that a content complaint is made official. Users retain the right to appeal through Maricopa's grievance procedures or resolution of controversy.

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,
 - b. 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.
- 3. 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.
- 7. Hazing activities and situations include, but are not limited to, the following:
 - 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, duck-walking, 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).
 - d. 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.
 - h. Aiding or abetting theft, fraud, embezzlement of funds, destruction of public, personal 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 vice president of student affairs' office for investigation by any member of the college community. The vice president of student affairs' 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.
- 9. Alleged violations of the Maricopa Community Colleges hazing prevention regulation by any faculty or staff member can be reported to the vice president of student affairs' office for investigation by any member of the college community. The vice president of student affairs' 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 vice president of student affairs' 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 vice president of student affairs' 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 vice president of student affairs' office and outlined in writing to the student club(s)/organization(s). The probationary term will be monitored by the vice president of student affairs' 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:
 - 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:

- 1. Visibly demonstrate a performance of the Maricopa Community College District "duty to care".
- 2. Comply with requirements for federal funds.
- 3. 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.
- 5. 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:

- Developing and implementing substance misuse/ abuse prevention programs.
- Providing educational training and prevention programs for the college and community it serves.
- Providing timely and accurate information dissemination.
- Establishing supportive counseling programs as needed.
- 5. Establishing a strong on-going evaluation of services.
- 6. Providing assistance to obtain treatment and rehabilitation of substance abuse/misuse.
- Clarifying the college regulations for control of alcohol and drug use.
- 8. 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.

c. 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.
- 4. 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 0.08 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 that \$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.

 a. 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 possession 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.
 - 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 onehalf 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)

- 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 Vice President of Student Affairs.

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 a faculty member, knowledge of the condition should be transmitted to the appropriate vice president or designee 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 vice president of student affairs or designee for the types of services available in the district or community on matters regarding AIDS or the HIV virus.

DISABILITY RESOURCES & SERVICES - ELIGIBILITY FOR ACCOMMODATIONS & REQUIRED DISABILITY DOCUMENTATION (AR 2.8)

PURPOSE—to specify the disability documentation requirements that will qualify (i.e., support current and essential needs) Maricopa County Community College District students for reasonable and appropriate accommodations through each college's disability services office or designated professional. This regulation is implemented in accordance with the American's with Disabilities Act.

GENERAL ELIGIBILITY REQUIREMENTS

Each applicant with a disability must meet MCCCD admissions requirements, or be enrolled as an MCCCD student, and must provide disability resource services (drs) with required documentation verifying the nature and extent of the disability prior to receiving any accommodation. The disability services office coordinator/program advisor is responsible for evaluating documentation and determining accommodation eligibility.

SPECIFIC ELIGIBILITY REQUIREMENTS PHYSICAL DISABILITIES—REQUIRED DOCUMENTATION

The student must submit a written, current diagnostic report of any physical disabilities that are based on appropriate diagnostic evaluations administered by trained and qualified (i.e., certified and/or licensed) professionals (e.g., medical doctors, ophthalmologists, neuropsychologists, audiologists). Disability diagnosis categories include:

- 1. Orthopedic Disability
- 2. Blind or Visual Impairment
- 3. Deaf or Hard-of-Hearing
- 4. Traumatic Brain Injury
- 5. Other Health-Related/Systemic Disabilities

The Written Diagnostic Report Must Include:

 a) A clear disability diagnosis, including a clinical history that establishes the date of diagnosis, last contact with the student, and any secondary conditions that might be present.

- b) The procedures used to diagnose the disability.
- A description of any medical and/or behavioral symptoms associated with the disability.
- d) A discussion of medications, dosage, frequency, and any adverse side effects attributable to their use that the, student has experienced.
- e) A clear statement specifying functional manifestations (i.e., substantial limitations to one or more major life activities and degree of severity) due to the disability and/or medications for which the student may require accommodations.
- f) A recommendation for accommodation, including rationale. If the accommodation recommendations are specific to limitations in learning (e.g., reading, mathematics, written expression), an appropriate psychoeducational or neuropsychological evaluation must be administered to document ability/achievement discrepancies.

Specific Learning Disabilities-Required Documentation

The student shall submit a written diagnostic report of specific learning disabilities that is based on current appropriate, comprehensive, psycho educational evaluations using adult normed instruments.

The assessment or evaluation which leads to the diagnosis must be administered by a trained and qualified (i.e., certified and/or licensed) professional (e.g., psychologist, school psychologist, neuropsychologist, or educational diagnostician) who has had direct experience with adolescents and adults with learning disabilities.

An Appropriate Psycho Educational Evaluation Must Include Comprehensive Measures In Each Of The Following Areas:

- 1. Aptitude (the evaluation must contain a complete intellectual assessment, with all subtests and standard scores reported).
- Academic achievement (the evaluation must contain a comprehensive achievement battery with all sub-tests and standard scores reported) the test battery should include current levels of functioning in the relevant areas, such as reading (decoding and comprehension), mathematics, and oral and written expression.



 Information processing (the evaluation should assess specific information processing areas such as short- and long-term memory, sequential memory, auditory and visual perception/processing, processing speed, executive function, and motor ability).

Examples Of Measures

- a) Wechsler Adult Intelligence Scale-Revised (WAIS-R)
- b) Wechsler Adult Intelligence Scale-Third Edition
- c) Stanford Binet Intelligence Scale-Fourth Edition
- d) Woodcock-Johnson Psycho-Educational Battery-Revised: Tests Of Cognitive Ability
- e) Kaufman Adolescent And Adult Intelligence Test

Achievement

- a) Wechsler Individual Achievement Tests (WIAT)
- b) Woodcock-Johnson Psycho-Educational Battery-Revised: Tests Of Achievement (W-Jr)
- c) Stanford Test of Academic Skills (TASK)
- d) Scholastic Abilities Test for Adults (SATA)

Information Processing

- a) Subtests of The Wais-R Or Wais-Third Edition
- b) Subtests on The Woodcock-Johnson Psycho-Educational Battery-Revised: Tests Of Cognitive Ability

Diagnostic Report

The diagnostic report must include the following information:

- A diagnostic interview that addresses relevant historical information, past and current academic achievement, instructional foundation, past performance in areas of difficulty, age at initial diagnosis, and history of accommodations used in past educational settings and their effectiveness.
- 2. A list of all instruments used in the test battery.
- 3. Discussion of test behavior and specific test results.
- A diagnostic summary statement with the following information:
- a) A clear and direct statement that a learning disability does or does not exist, including a rule-out of alternative explanations for the learning problems. Terms such as "appears," "suggests," or "probable" used in the diagnostic summary statement do not support a conclusive diagnosis.
- b) A clear statement specifying the substantial limitations to one or more major life activities.
- c) A psychometric summary of scores.
- d) A recommendation for accommodations, including rationale.

Diagnosis of specific learning disabilities that do not contain psycho-educational measures may not be used for determining eligibility for academic accommodations. For example, school plans such as individualized education plans (IEPS) or 504 plans are not adequate documentation; however, they can be included with the required evaluation. Drs reserves the right to request reassessment when questions regarding previous assessment or previous service provision arise.

Attention Deficit Hyperactivity Disorder (ADHD)/Attention Deficit Disorder (ADD) — Required Documentation

The student shall submit a current diagnosis of attention deficit hyperactivity disorder (ADHD)/attention deficit disorder (ADD) that is based on appropriate diagnostic evaluations administered by trained and qualified (i.e., certified or licensed) professionals (e.g., psychiatrists, psychologists, or neuropsychologists).

The Diagnostic Report Must Include:

- A diagnostic interview addressing relevant historical information, past and current academic achievement, age at initial diagnosis, discussion of medication, and history and effectiveness of accommodations in past educational settings
- 2. The procedures used to diagnose the disability (including a list of all instruments used in the assessment).
- 3. Discussion of the testing results and behavior, including the symptoms that meet the criteria diagnosis. If the student was evaluated while on medication, the effect this may have had on performance must be noted.
- 4. DSM-IV diagnosis (including all five axes)
- 5. A diagnostic summary statement that includes the following information:
- a) A clear statement that ADHD/ADD does or does not exist, including a rule-out of alternative explanations for behaviors. Terms such as "appears," "suggests," or "has problems with" used in the diagnostic summary statement do not support a conclusive diagnosis.
- b) A clear statement specifying the substantial limitations to one or more major life activities and the degree of severity. If the limitations are in learning (e.g., reading, mathematics, and written expression), an appropriate psychoeducational evaluation must be administered to document ability/achievement discrepancies.
- c) A recommendation regarding medications or medical evaluation(s).
- d) A recommendation for accommodations, including rationale.

Psychological Disabilities — Required Documentation

If the diagnostic report is more than one year old, a letter from a qualified professional that provides an update of the diagnosis with a description of the individual's current level of functioning during the past year, and a rationale for the requested accommodations must be submitted.

The Diagnostic Report Must Include The Following:

- 1. A clinical interview, relevant historical information, age at initial diagnosis, duration and severity of the disorder.
- Discussion of medications review of past and current academic achievement, and history of disability accommodations and their effectiveness.
- The procedures used to diagnose the disability (include a list of all instruments used in the assessment and test scores as applicable).



- 4. Discussion of the assessment results.
- 5. DSM-IV diagnosis (include all five axes).
- 6. A diagnostic summary statement that includes the following:
- a) A clear statement that a disability does or does not exist. Terms such as "appears," "probable," and "suggests" used in the diagnostic summary statement do not support a conclusive diagnosis.
- b) A clear statement specifying the substantial limitations to one or more major life activities. If the limitations are in learning (e.g., reading, mathematics, and written expression), an appropriate psycho-educational evaluation must be administered to document ability/achievement discrepancies.
- c) A discussion of medications and their possible impact on academic functioning (e.g., concentration, attention, sedation)
- d) A recommendation for essential accommodations relative to the diagnosed disability, including rationale.
- e) The duration for which these accommodations should be provided based on the current assessment.
- f) A recommendation regarding reevaluation to determine ongoing need for disability accommodations (e.g., one semester, one year, two years).

Temporary Impairments

Some disabilities are temporary and may require accommodations for a limited time. Each case is considered individually. The following documentation is required:

- Written correspondence on letterhead from a qualified professional stating diagnosis, functional limitations necessitating the accommodation, and the estimated length of time services will be needed.
- 2. Services may be provided for ten (10) working days pending receipt of documentation. If documentation is not received by that time, services will be cancelled.

Special Considerations

A requirement for documentation prescribed in this regulation may be considered at the discretion of each college's disability services office or designated professional if, in the professional opinion of the responsible college's disability services office or designated professional, such consideration is in the best interest of the student and will neither undermine the integrity of any college offering nor violate any mandate under state or federal law. All situations shall be considered on an individual, case-by-case basis. Reasonable accommodation is required for students with known disabilities. MCCCD will make every attempt to provide "preferred" accommodations, however, "the most effective and reasonable" accommodation may be determined to meet sufficient accessibility needs.

ACADEMIC MISCONDUCT (AR 2.3.11)

A. Definitions

 Academic Misconduct - includes misconduct associated with the classroom, laboratory or clinical learn-

- ing 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 faculty member 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. Information gathered from the internet and not properly identified is also considered plagiarism.

B. Sanctions

Any student found by a faculty member to have committed academic misconduct maybe subject to the following sanctions: (Note: sanctions 1, 2, 3, and 4 may be imposed by a faculty member. The faculty member may recommend to the department chairperson and the vice president of academic affairs or designee that sanctions 5, 6, or 7 be imposed. College suspension or expulsion will be imposed only by the vice president of academic affairs or designee.)

- 1. Warning A notice in writing to the student that the student has violated the academic code.
- Grade Adjustment Lowering of a score on a test, or assignment.
- Discretionary Sanctions Additional academic assignments determined by the faculty member.
- Course Failure Failure of a student in the course where academic misconduct occurs.
- Disciplinary Probation Disciplinary probation is for a designated period of time and includes the probability of more severe sanctions if the student commits additional acts of academic misconduct.
- 6. 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. (A suspension from one Maricopa Community College will apply to all other colleges/centers in the District.)



7. College Expulsion - Permanent separation of the student from the college. (Expulsion from one Maricopa Community College will apply to all colleges/centers in the District.)

C. Appeal of Sanctions for Academic Misconduct

Students can appeal sanctions imposed for academic misconduct by following the instructional grievance process (AR 2.3.5).

DISCIPLINARY STANDARDS

A. Disciplinary Probation and Suspension (AR 2.5.1)

According to the laws of the State of Arizona, jurisdiction and control over the Maricopa Community Colleges are vested in 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.
- 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.
- Use of college computer resources such as internet in violation of TECHNOLOGY RESOURCE STAN-DARDS (AR 4.4) which may result in notification of law enforcement authorities.

B. Disciplinary Removal from Class

A faculty member may remove a student from class meetings for disciplinary reasons. If faculty member removes a student for more than one class period, the faculty member shall notify the department/division chair and the appropriate vice presdient or designee in writing of the problem, action taken by the faculty member's recommendation. If a resolution of the problem is not reached, between the faculty member and the student, the student, may be removed permanently pursuant to 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".
- C. "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.
 - c. Tampering with the election of any collegerecognized 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 noncollege activities, when the act occurs on college premises.

A faculty member may remove a student from a class meeting for disciplinary reasons. If a faculty member removes a student for more than one class period, the faculty member shall notify the appropriate vice president or designee in writing of the problem, action taken by the faculty member, and the faculty member's recommendation. If a resolution of the problem is not reached, the student may be removed permanently pursuant to appropriate due process procedures.

- 3. Physical abuse, verbal abuse, threats, intimidation, 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.
- 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.
- 6. 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.
- 8. 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 by law.
- 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.
- 13. 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
 - 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
 - Use of computing facilities for students' personal benefit
- 16. Abuse of the judicial system, including but not limited to:
 - a. Falsification, distortion or misrepresentation of information before a judicial body
 - b. Disruption or interference with judicial proceedings
 - c. Institution of a judicial proceeding knowingly without cause
 - 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

D. Violation of Law and College Discipline

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.
 - 2. 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 proceedings. 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:
 - 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.
 - 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 judicial 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.

6. 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

- 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.
 - c. 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:
 - a. Those sanctions listed above in Section B 1. a through d.
 - Deactivation -loss of all privileges, including college recognition for a designated period of time.
- 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;
 - b. To insure the student's own physical or emotional safety and well-being; or
 - c. 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.
- 2. 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
- 3. 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.

4. 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 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.
- 2. 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
 - b. 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



- c. 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 jurisdiction 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 hand-book:

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.

4. 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.

E 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.





MCCCD GOVERNING BOARD

Donald Campbell, Ph.D. Years of Service 1983-2006 Ed Contreras, Secretary Years of Service 1994-2006 Scott Crowley, President Years of Service 2004-2008 Years of Service 1980-2008 Linda Rosenthal Jerry D Walker Years of Service 2005-2010



MCCCD ADMINISTRATION

Rufus Glasper, Ph.D.

Chancellor

Albert Crusoe, M.A.

Vice Chancellor of Human Resources and Administration

Steven Helfgot, Ed.D.

Vice Chancellor of Student Development and Community Affairs

Maria Harper-Marinick, Ph.D.

Vice Chancellor for Academic Affairs

Darrel Huish, M.P.A.

Associate Vice Chancellor/CIO of Information Technologies Services

Debra Thompson, M.P.A.

Vice Chancellor of Business Services



SENIOR MANAGEMENT

Lopez, Homero

President

A.A., Laredo Junior College; B.A., University of Texas at Austin; M.A., University of Michigan; Ph.D., University of Texas at Austin.

email: homero.lopez@emcmail.maricopa.edu

Tippett, Bryan

Vice-President of Acadmic Affairs

B.S., Gannon University; M.S., Duquesne University; Ed.D., University of Sarasota. email: bryan.tippett@emcmail.maricopa.edu

Lara, Ernest

Vice-President of Student Affairs

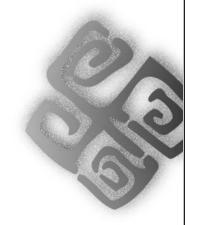
A.A., Glendale Community College; B.A., M.A., M.C., Ph.D., Arizona State University. email: ernie.lara@emcmail.maricopa.edu

Clay Goodman

Vice-President of Occupational Education

B.S., Arizona State University; M.A., University of North Colorado.

email: clay.goodman@emcmail.maricopa.edu





Sally Buxton

Vice-President of Administrative Services B.A., St. Lawrence University. email: sally.buxton@emcmail.maricopa.edu

DIVISION CHAIRPERSONS

Akuna, Valerie

Division Chair, Instructional Computing

B.A., University of Leeds; B.A., University of Alberta; M.Ed., Arizona State University; Ph.D., Nova South East University of Florida.. email: valerie.akuna@emcmail.maricopa.edu

Anderson, Deborah

Division Chair, Information Resources
B.A., Hiram College; M.L.S., University of Arizona.
email:debbie.anderson@emcmail.maricopa.edu

Desbien, Dwain

Division Chair, Science and Mathematics

B.A., Grinnell College; M.S., University of Kansas, Ph.D Arizona State University. *email: dwain.desbien@emcmail.maricopa.edu*

Iudicello, Kathleen

Division Chair, Liberal Arts

B.A., M.A., Arizona State University, Ph.D George Washington University *email: kathleen.iudicello@emcmail.maricopa.edu*

Maihfoer, Fredrick.

Division Chair, Occupational Education

A.A.S., Glendale Community College; B.S., M.B.A., Arizona State University West; M.Ed., Northern Arizona University. email: frederick.maihofer@emcmail.maricopa.edu

Pina, Debbie

Division Chair, Counseling

B.S.C., Grand Canyon University; M.Ed., Northern Arizona University. *email: debbie.pina@emcmail.maricopa.edu*

Williams, Pearl

Division Chair, Developmental Education

B.A., Alcorn State University; M.Ed., Arizona State University. *email: pearl.williams@emcmail.maricopa.edu*

ADMINISTRATIVE DEANS AND DIRECTORS

Gamez, Adolfo

Manager Institutional Strategy & Workforce Development
A.A., Glendale Community College; B.S., Northern Arizona University.
email: adolfo.gamez@emcmail.maricopa.edu

Crume, Judith

Director, Nursing

B.S.N., Murray State University; M.S.N., University of Kentucky; Ph.D. Auburn University. *email: judith.crume@emcmail.maricopa.edu*

Jackson, Joyce M.

Dean

B.F.A., University of Rhode Island; M.B.A., University of Phoenix. *email: joyce.jackson@emcmail.maricopa.edu*

Marmon, Richard

Director Information Technology

B.A., New York University; M.S., Georgia Institute of Technology. *email: rich.marmon@emcmail.maricopa.edu*



Mauldin, Victor Randy

Director College Facilities, Planning & Development

B.S., Regents College, University of New York; M.Ed., Northern Arizona University.

email: randy.mauldin@emcmail.maricopa.edu

Orr, Sylvia

Dean

B.A., M.S, Ph.D., University of Washington.: email: sylvia.orr@emcmail.maricopa.edu

Shellenbarger, Lauren

Dean

A.A., Phoenix College, B.S.W. M.P.A., Arizona State University

email: lauren.shellenbarger@emcmail.maricopa.edu

Tavakoli, Sue

Director of College Business Services

B.A., Iran-zamin College; M.E.d., Northern Arizona University.

email: sue.tavakoli@emcmail.maricopa.edu

Willekens, René Guerra

Dean of Institutional Planning, Research and Effectiveness

B.S., M.B.A., Arizona State University.: email: rene.willekens@emcmail.maricopa.edu

Yohe, Roger

Director of Center for Teaching and Learning

B.A., University of Northern Iowa; M.Ed., Ph.D. Arizona State University.

email: roger.yohe@emcmail.maricopa.edu

FACULTY

Abrams, Carlotta

English

B.A., Wesleyan University; M.F.A., Arizona State University; Ph.D., University of S.Mississippi.: email: carlotta.abrams@emcmail.maricopa.edu

Akuna, Valerie A.

Computer Information Systems

B.A., University of Leeds; B.A., University of Alberta; M.Ed., Arizona State University;

Ph.D., Nova South East University of Florida. email: valerie.akuna@emcmail.maricopa.edu

Anderson, Deborah

Information Resources

B.A., Hiram College; M.L.S., University of Arizona.

email: debbie.anderson@emcmail.maricopa.edu

Baranowski, Rebecca

Mathematics

B.S., Northern Arizona University; M.A., University of Arizona.

email: rebecca.baranowski@emcmail.maricopa.edu

Bishop, Patricia

Nursing

B.S.N., M.S.N., University of Akron.

Boettcher, Steve

Mathematics

B.S., Harvey Mudd College; M.A., University of California, Los Angeles; Ed.D., Nova

Southeastern University.

email: steve.boettcher@emcmail.maricopa.edu

Bradley, John L.

Business

B.S., University of Illinois at Urbana; M.S.Ed., Ph.D., Southern Illinois University.

email: john.bradley@emcmail.maricopa.edu



Buentello, Analicia C.

English

B.A., University of Texas; M.A., Texas A & M International University. *email: analicia.buentello@emcmail.maricopa.edu*

Burch, Andrew

Mathematics

B.S., Michigan State University; M.A., Bowling Green State University. *email: andy.burch@emcmail.maricopa.edu*

Coleman, Christopher

Psychology

A.A., Mesa Community College; B.A., San Diego State University; Ph.D. State University of New York. email: christopher.coleman@emcmail.maricopa.edu

Crume, Judith

Nursing

B.S.N., Murray State University; M.S.N., University of Kentucky; Ph.D. Auburn University. *email: judith.crume@emcmail.maricopa.edu*

Davis-Ragland, Clarissa

Business

B.S., Arizona State University; M.B.A., Grand Canyon University. *email: clarissa.davis-ragland@emcmail.maricopa.edu*

Desbien, Dwain

Physics

B.A., Grinnell College; M.S., University of Kansas; Ph.D., Arizona State University. *email: dwain.desbien@emcmail.maricopa.edu*

Escalona, Milagro

Spanish

B.A., Ins. Pedagogico Universidad de Caracas; M.A., University of Utah; Ph.D., Arizona State University. email: milagro.escalona@emcmail.maricopa.edu

Farabee, Michael J.

Biology

B.S., M.S., Arizona State University; Ph.D., University of Oklahoma. *email: mj.farabee@emcmail.maricopa.edu*

Farrar, William

Psychology

B.A., Rutgers University; M.S., Ph.D., University of California Santa Cruz. email: william.farrar@emcmail.maricopa.edu

Frasure, John

History

B.S., Liberty University; M.A., Texas Wesleyan University. *email: john.frasure@emcmail.maricopa.edu*

Freeman, Rod

English

B.A., M.A., Samford University.: email: rod.freeman@emcmail.maricopa.edu

Fujii, Stephanie J.

Counseling

B.A, M.A., University of Nevada, Reno. : email: stephanie.fujii@emcmail.maricopa.edu

Gray, Roberta

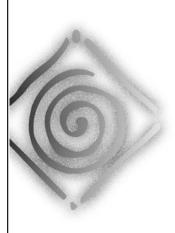
English as a Second Language/Reading

B.A., New Paltz College; M.S., City College of New York; M.S., Lehman College of New York. *email: roberta.gray@emcmail.maricopa.edu*

Griffith, Steve

Culinary Arts

 $A.A.S., New\ Hampshire\ Technical\ School\ Culinary\ Arts.\\ email:\ steve.griffith@emcmail.maricopa.edu$



Grizzaffi. Karen

Mathematics

B.S., University of Florida-Gainesville; M.E.d., University of Southern Mississippi. *email: karen.grizzaffi@emcmail.maricopa.edu*

Hebert, Cheryl

Communication

B.S., M.A.; Arizona State University. email: cheryl.hebert@emcmail.maricopa.edu

Herzog, Barbara

Mathematics

B.S., M.S., Northern Arizona University. email: barbara.herzog@emcmail.maricopa.edu

Hill, Jon

Culinary Arts

A.S., University of Hawaii; B.S., University of Phoenix; M.Ed., Grand Canyon University *email: jon.hill@emcmail.maricopa.edu*

Hogue, John

Computer Information Systems

B.A., M.A., Arizona State University. email: john.hogue@emcmail.maricopa.edu

Iudicello, Kathleen

English

B.A., M.A., Arizona State University; Ph.D, George Washington University *email: kathleen.iudicello@emcmail.maricopa.edu*

Joncas, Alex M.

English

B.A., Northern Michigan University; M.S., Johns Hopkins University. *email: alex.joncas@emcmail.maricopa.edu*

Johnson-Maxwell, Tanisha

Counseling

B.A., Arizona State University; M.A., University of Missouri email:tj.maxwell@emcmail.maricopa.edu

Larson, Randol

CIS/MCSE

A.S., CA College for Health Science; B.S., College of St. Francis. *email: randol.larson@emcmail.maricopa.edu*

Leary, Rosemary

Chemistry

B.S., Pennsylvania State University; M.Ed., Ph.D., Arizona State University. *email: rosemary.leary@emcmail.maricopa.edu*

Maas, Sandra

Nursing

M.S.N., University of Phoenix. email: sandra.maas@emcmail.maricopa.edu

Maihofer, Frederick

Business

A.A.S., Glendale Community College; B.S., M.B.A., Arizona State University West; M.Ed., Northern Arizona University. email: frederick.maihofer@emcmail.maricopa.edu

Mallory, Jason

Philosophy

B.A., University of Texas, Austin; M.A., Texas A&M University. email: jason.mallory@emcmail.maricopa.edu

Malmo, Susan

English

B.A., Wellesley College; M.A., Central Missouri State University; J.D., Washingtion University. email: susan.malmo@emcmail.maricopa.edu

Martinez, Jason, Z

Counseling

A.A, Phoenix College., B.A.; M.C., Arizona State University email: jason.martinez@emcmail.maricopa.edu





Medina, Bertha

Counseling

B.S., Northern Arizona University; M.S.W., Arizona State University. *email: bertha.medina@emcmail.maricopa.edu*

Meyer, Terry

Library

B.A., Grand Valley State University; M.L.S., Rosary College; M.S.I.S., Roosevelt University. *email: terry.meyer@emcmail.maricopa.edu*

Miller, Polly

Center for Teaching & Learning

B.A., Rhode Island College - Providence; M.E.d., Arizona State University *email: polly.miller@emcmail.maricopa.edu*

Nichols, James

Computer Information Systems/Cisco

B.S.Ed., Northern Arizona University. email: jim.nichols@emcmail.maricopa.edu

Oliver, Charles Dennis

English/English as a Second Language

B.S.Ed., Illinois State University; M.A., So. Illinois University. email: charles.oliver@emcmail.maricopa.edu

Pesta, Lawrence R.

English as a Second Language

A.A., Mount San Antonio College; B.A., California State University, Fullerton; M.A., San Francisco State University; Th.D., Emerson Theological Institute. email: larry.pesta@emcmail.maricopa.edu

Piña, Debbie

Counseling

B.S.C., Grand Canyon University; M.Ed., Northern Arizona University. *email: debbie.pina@emcmail.maricopa.edu*

Price, Nikol

Library

A.A., Mohave Community College; B.A., University of Nevada; M.A., University of Arizona. *email: nikol.price@emcmail.maricopa.edu*

Raffin, Deborah

Education

B.A., M.A., Northeastern Illinois University; Ed.D., Arizona State University. *email: deborah.raffin@emcmail.maricopa.edu*

Rivera, Luvia

Mathematics

B.A., University of Texas at Austin; M.S., Purdue University. *email: luvia.rivera@emcmail.maricopa.edu*

Rivera, Natalie

Mathematics

B.A., M.S., Arizona State University. email: natalie.rivera@emcmail.maricopa.edu

Rivera, Reynaldo, Jr.

Mathematics

B.S., University of Texas; M.S., Purdue University. email: rey.rivera@emcmail.maricopa.edu

Rosales-Torres, Cecelia Maria

English

B.A., Instituto Technologico y de Estudias Superiores; M.A. New Mexico State University; Ph.D., Arizona State University. email: cecilia.rosales@emcmail.maricopa.edu

Shriver, Stephen J.

Occupational Education

B.A., Ottawa University. email: stephen.shriver@emcmail.maricopa.edu





Smith, Rachel

Biology

B.S., University of East Anglis; Ph.D., University of Leeds, UK.

email: rachel.smith@emcmail.maricopa.edu

Steele, Bronwen

Biology

B.S., M.S., University of Arizona. email: bronwen.steele@emcmail.maricopa.edu

Stonebrink, Diane

English as a Second Language/English

B.A., Lewis and Clark College; M.A., University of Hawaii.

email: diane.stonebrink@emcmail.maricopa.edu

Swindle, Patricia

Cisco Networking Technology

B.S., Park College; M.Ed., University of Phoenix. email: patty.swindle@emcmail.maricopa.edu

Tableman, Kara

CIS/Programming

B.S., University of Pittsburgh; M.Ed., Temple University.

email: kara.tableman@emcmail.maricopa.edu

Toms, Malik

English

B.A., M.A., Iowa State University. email: malik.toms@emcmail.maricopa.edu

Tsoudis, Olga

Sociology

B.S., Cornell University; M.S., Ph.D.University of Arizona

email: olga.tsoudis@emcmail.maricopa.edu

Turner, Roselyn

Communication

B.A., New Mexico State University; M.S., Nova University; Ph.D., Capella University.

email: roselyn.turner@emcmail.maricopa.edu

Van Puymbroeck, Christina

Psychology

B.S., Mary Washington College; Ph.D., Arizona State University.

email: christina.vanpuymbroeck@emcmail.maricopa.edu

Vickrey, Betty

Instructional Computing

B.A., M.A., University of Arizona; M.Ed., Arizona State University.

email: betty.vickrey@emcmail.maricopa.edu

Williams, Pearl

Developmental Education

B.A., Alcorn State University; M.Ed., Arizona State University.

email: pearl.williams@emcmail.maricopa.edu

Yohe, Roger

Center for Teaching and Learning

B.A., University of Northern Iowa; M.Ed., Ph.D. Arizona State University.

email: roger.yohe@emcmail.maricopa.edu

Zagar, Christopher

Library

A.A., Glendale Community College; B.S., Charter Oak State College; M.A., University of Arizona. *email: chris.zagar@emcmail.maricopa.edu*

Zetlan, Sonja

Biology

B.S., Syracuse University; Ph.D., University of Wisconsin.

email: sandy.zetlan@emcmail.maricopa.edu





Zuleger, Eddie

Administration of Justice Studies

A.A., Glendale Community College; B.A., Golden Gate University; M.S., Arizona State University. *email: eddie.zuleger@emcmail.maricopa.edu*

FACULTY RETIREES

Bayley, Conrad S.

English

A.B., Tufts University; M.Ed., University of Massachusetts; M.A., Arizona State University; N.E.H. Fellowship, Brown University. *email: conrad.bayley@emcmail.maricopa.edu*

Snyder, Gail

Psychology

A.A., Glendale Community College; B.G.S., M.Ed., Northern Arizona University. *email: gail.snyder@emcmail.maricopa.edu*

Waltrip, John R.

History

B.S., Millikin University; M.A., Arizona State University; Ph.D., University of Missouri.







Add/Drop Period

A period of time before classes begin when schedule changes are made. A penalty may be charged for changes made after the start of classes.

Admission

Acceptance into a college after the student has filed a completed Student Information Form with the Admissions and Records Office and has been admitted according to admissions criteria. Students who have been admitted are eligible to register for courses.

Advisor

A counselor, faculty, or other designated staff member who has received training to provide students with academic information that will direct them to the appropriate classes to achieve their goals and enhance their success.

AGEC

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 and transfers as a block without loss of credit.

Assessment

Also known as placement or Assessment of Skills for Successful Entry and Transfer (ASSET) testing. Assessment is a way of evaluating students' present skills in English, reading and math so students may choose courses that match their skills. Assessment is based on scores on the ASSET course placement tests. Scores are used as a guide for proper course placement, which leads to greater success.

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), Associate in Transfer Partnership (ATP), Associate in Business (ABus) or Associate in Science (AS) 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.

Associate in Transfer Partnership (ATP)

The Associate in Transfer Partnership (ATP) is designed for students transferring to public and private colleges and universities. This degree is specifically developed for students who have an identified major and have selected the baccalaureate degree granting institution to which they intend to transfer.

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

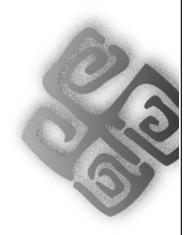
A degree awarded by a four-year college or university. Generally requires completion of 120 semester credits. Also referred to as a baccalaureate degree (e.g., BA or BS).

College Orientation

A session during which new students are introduced to academic programs, facilities, and services provided by a college.

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, which may include summer sessions. Determines catalog year for graduation.

Corequisite

Specified conditions, requirements, or courses that must be completed at the same time as another course.

Counselor

A professionally trained staff member who helps students with educational, career, or personal concerns.

Course

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 registration 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 ENG 101).

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 Title

The name of a specific course that indicates subject and content (e.g., Freshman English, 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 aimed at an academic or occupational goal; also referred to as a program of study.

Customer

One that purchases and/or consumes a product or service; defining and meeting customer needs drives the development of any successful product or service.

Division

A group of faculty who teach classes in related subjects, such as Communication, English, and Social Science in the Liberal Arts Division.

Electives

Non-required courses that students may select to complete their program of study.

Extracurricular Activities

Also known as co-curricular. Activities, clubs, or organizations students may participate in above and beyond their academic courses.

Faculty

Instructors.

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 Schedule of Classes.



Fiscal Office

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.

Grade Point

The numerical value of 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.

Load

Also called academic load. The total number of credit hours taken in a term. Twelve credit hours is considered a full-time load.

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 offer lower division courses and 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 English, nursing, or engineering.

Official Absence

Absence from class approved by the Dean of Student Services for students who are participants in an official college activity. Students must present approved absence documentation to their instructors before the official absence and 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.

Period

Time spent in class and/or lab each week. One period is equivalent to 50 minutes per week for a one-credit course that meets during a 16-week semester.

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.

Schedule of Classes

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.

Scholastic Suspension

Not being allowed to enroll in the college for one semester. This is caused by not maintaining the minimum required GPA for two consecutive semesters.

Section Number

A four-digit code used to identify each class section of each course offered. Each class has a different section number. Section numbers are listed in the Schedule of Classes.

Semester

Traditionally half an academic year, 16 weeks in length. Fall semester begins in August and spring semester begins in January.

Service Learning

Combines community service with classroom instruction, focusing on critical thinking, value clarification and social responsibility. The key components of Service Learning are linkage to course competencies or objectives, a relevant experience and a meaningful contribution to the community.

Service Strategy

A distinctive formula for delivering service that clearly states a customer benefit that is valuable to the customer and that establishes an effective competitive position.

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.

Transcrip

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 to meet requirements in a major or as general education.

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.

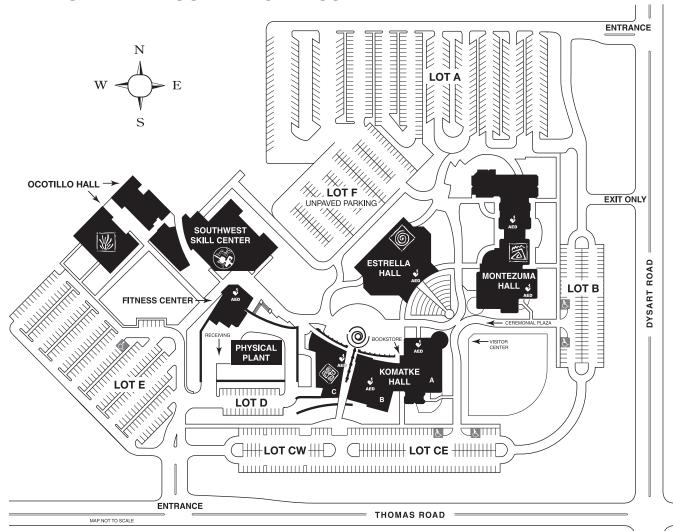
Tuition and Fees

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.

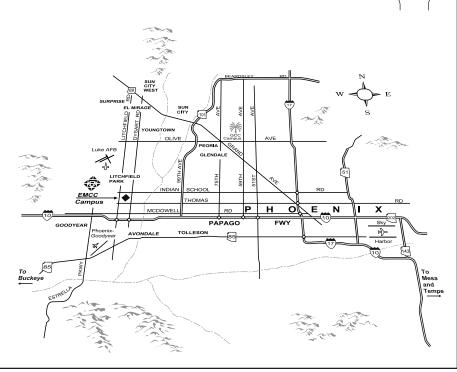
Withdrawal

Officially dropping any or all courses during a semester. Students withdrawing from one or more courses must notify the Admissions and Records Office in writing and request that they be officially withdrawn. Refunds are based on the refund schedule set forth in the catalog. After a specified date, students must have instructor approval before withdrawing from a course.

THE ESTRELLA MOUNTAIN CAMPUS



Estrella Mountain Community College is conveniently located one mile north of Interstate 10 (exit #129) on Dysart Road in Avondale. There is ample parking for day, evening and weekend sessions.





INDEX

Academic Advising Policy244	Clubs and Activities	17
Advisement Services	College Level Equivalency Examinations 238-2	240
Academic Probation	Communication (COM) Courses 1	
Academic Calendar	Community Education (Learning for Life)	
Academic Certificate	Computer Applications Technology Certific	
Interdisciplinary Storytelling 68	and Degree Programs	
Advanced Interdisciplinary Storytelling 69	Computer Hardware and Desktop Supp	
Accounting (ACC) Courses	Certificate Program	
Administration	Computing (BPC) Courses 1	
EMCC	Computer Aided Drafting 1	
MCCCD	Computing (CIS) Courses	
Administrative Directors	Copyright Act Compliance	
Administrative Directors	Course Descriptions	
Admissions Information	Course Placement	
	Counseling (CPD) Courses	
Admissions Classifications	Counseling Services	
Admissions and Records		
Aerospace Studies (AES) Courses 173	Creative Writing (CRW) Courses	
American Indian Studies (AIS)	Credit by Evaluation	
Anthropology (ASB) Courses 175	Credit for Prior Learning	
Arizona General Education Curriculum	Crime Awareness and Campus Security Act	
(AGEC)	Criteria for Determining Residency	
Art (ART) Courses 175	Critical Reading (CRE) Courses 1	
Art Humanities (ARH) Courses 176	Culinary Studies	
Articulation Agreements	Dance (DAN) Courses 1	
Assessment of Student Learning Outcomes 22	Dance Humanities (DAH) Courses 1	90
Associate in Applied Science (AAS) Degree 72	Desktop Publishing Certificate	
Associate in Arts	Requirements	
Associate in Arts (AAFA) Fine Arts -Dance .	Developmental Education-credit classes	166
40	Developmental Education-non-credit	
Associate in Arts (AAFA) Fine Arts - Art	classes	67
45	Disability Resource & Services	14
Associate in Arts (AAFA) Fine Arts - Theatre	Disciplinary Standards2	274
49	Division Chairpersons	282
Associate in Business (ABUS) Degree General	Early Childhood Education (ECH)	
Requirements (GR) 57	Courses 1	190
Associate in Business (ABUS) Degree Special	Economics (ECN) Courses 1	
Requirements (SR)	Education (EDU) Courses 1	
Associate in General Studies (AGS) 67	Education Professional Development (EPD	
Associate in Arts (AA) Elementary Education	Courses	
Degree (EE)	Electricity (ELC) Courses	
Associate in Transfer Partnership Degree 65	Electronics (ELT) Courses	
	Emissions Control Compliance	
University Transfer and Pathways Chart	English (ENG) Courses	
Attendance Policy 251	English as a Second Language (ENG)	.) 3
Attendance Policy	Courses	104
Biology (BIO) Courses	English Humanities (ENH) Courses 1	
Bookstore		
Building Names	Facilities	
Building Safety & Construction Technology	Facilities Management (FAC) Courses 1	
(BLT) Courses	Faculty	
Business Technology Program 143	Faculty Retirees	
Career Exploration	Fees-Time of Payment	
Center for Teaching and Learning	Financial Aid Services	
Chemistry (CHM) Courses 177	Fire Science Technology (FSC) Courses . 1	
Child/Family Studies (CFS) Courses 178	Fitness Center	
Cisco Networking Technology (CNT)	Food Services	
Courses	French (FRE) Courses	
Cisco Networking Technology Certificate and	Food and Nutrition (FON) Course 1	99
Degree Programs	General Business (GBS) Courses	200





General Education
General Guidelines Regarding AIDS 270
General Technology (GTC) Courses 200
Genesis West
Geology (GLG) Courses
Glossary of College Terms
Goals -EMCC 6
MCCCD 5
Grading
Graduation Requirements 78, 256
Hazing Prevention Regulation
Health Core Curriculum (HCC) Courses 209
Health Core Integrated Educational System
(HCIES) Program
Health Science (HES) Courses
Heating, Ventilating & Air Conditioning (HVA)
Courses
High School Dual Enrollment
High School Outreach Services
History (HIS) Courses
History and Background 8
Honorary Groups
Honors Program 169
Hospitality (HRM) Courses 203
Hospitality/Hotel Management Degree and
Certificate Programs
Humanities (HUM) Courses 204
Important Deadlines for Students 253
Industrial Operations Technology Degree
Program 102
Information Security Degree and Certificate
Programs
Information Technology Security (ITS) Courses
Inspire.teach
Institutional Advancement
Instructional Grievance Process
Job Placement
Learning Enhancement
Learning for Life
Library Resources
Linux Networking Administration Degree and
Certificate Programs
Management (MGT) Courses
Map
Maricopa Community Colleges Occupational
Programs
Manufacturing Technology
Marketing (MKT) Courses
Mass Communication Courses (MCO) . 207
Mathematics (MAT) Courses
Medical Assistant Program
MCCCD Colleges
MCCCD Governing Board
MCCCD Policies and Procedures 225
MCCCD Vision, Mission and Strategic Goals . 5
Microsoft Networking Technology Certificate
and Degree Programs114
Microsoft Technology (MST) Courses 209
Mission and Goals
Music Humanities (MHL) Courses 211
Music Performance (MUP) Courses 211
NASA Math/Science Support Center Services
Networking Technology: CISCO Certificate and
Degree Programs
Nursing Degree Program

Nursing (NUR) Courses211
Occupational Safety and Health (OSH) . 213
Occupational Safety and Health (OSH) . 213
Office Automation Systems (OAS)
Courses
Oracle Database Administration Certificate
Requirements
Organizational Management Degree Program
Organizational Leadership Certificate
Reguirements
Outstanding Debts247
Phi Theta Kappa
Philosophy (PHI) Courses
Physical Education (PED) Courses 213
Physical Science (PHS) Courses
Physics (PHY) Courses
Political Science (POS) Courses
Power Plant Technology Degree Program
Requirements
Power Plant Technology (PPT) Courses 216
Practical Nursing 148
Programming and System Analysis Degree
Programs
Psychology (PSY) Courses
Public Administration (PAD) Courses 219
Records Policy
Reading English as a Second Language (RDG)
Reading (RDG) Courses
Re-Entry Services
Refund Policy for Credit Courses 247
Registration
Religious Studies (REL) Courses 220
Retail Management Degree and Certificate
Retail Management Degree and Certificate Programs 133
Programs
Programs
Programs
Programs133Residency Guidelines232Schedule Changes251Scholastic Standards250
Programs133Residency Guidelines232Schedule Changes251Scholastic Standards250Safety and Security14
Programs133Residency Guidelines232Schedule Changes251Scholastic Standards250Safety and Security14Service Learning18
Programs133Residency Guidelines232Schedule Changes251Scholastic Standards250Safety and Security14Service Learning18Service Strategy1
Programs133Residency Guidelines232Schedule Changes251Scholastic Standards250Safety and Security14Service Learning18Service Strategy1Servicemen's Opportunity College241
Programs133Residency Guidelines232Schedule Changes251Scholastic Standards250Safety and Security14Service Learning18Service Strategy1Servicemen's Opportunity College241Services and Resources11
Programs133Residency Guidelines232Schedule Changes251Scholastic Standards250Safety and Security14Service Learning18Service Strategy1Servicemen's Opportunity College241
Programs133Residency Guidelines232Schedule Changes251Scholastic Standards250Safety and Security14Service Learning18Service Strategy1Servicemen's Opportunity College241Services and Resources11
Programs133Residency Guidelines232Schedule Changes251Scholastic Standards250Safety and Security14Service Learning18Service Strategy1Servicemen's Opportunity College241Services and Resources11Sexual Harassment Policy259Sign Language (SLG) Courses220
Programs
Programs133Residency Guidelines232Schedule Changes251Scholastic Standards250Safety and Security14Service Learning18Service Strategy1Servicemen's Opportunity College241Services and Resources11Sexual Harassment Policy259Sign Language (SLG) Courses220Small Business Management CertificateProgram136
Programs
Programs 133 Residency Guidelines 232 Schedule Changes 251 Scholastic Standards 250 Safety and Security 14 Service Learning 18 Services Strategy 1 Services and Resources 241 Services and Resources 11 Sexual Harassment Policy 259 Sign Language (SLG) Courses 220 Small Business Management Certificate Program 136 Small Business Management (SBS) 221 Society and Business (SBU) Courses 220 Sociology (SOC) Courses 220 Social Work (SWU) Courses 221 SouthWest Skill Center 142
Programs 133 Residency Guidelines 232 Schedule Changes 251 Scholastic Standards 250 Safety and Security 14 Service Learning 18 Services Strategy 1 Services and Resources 241 Services and Resources 11 Sexual Harassment Policy 259 Sign Language (SLG) Courses 220 Small Business Management Certificate Program 136 Small Business Management (SBS) Courses 221 Society and Business (SBU) Courses 220 Sociology (SOC) Courses 220 Social Work (SWU) Courses 221 SouthWest Skill Center 142 Spanish (SPA) Courses 221
Programs 133 Residency Guidelines 232 Schedule Changes 251 Scholastic Standards 250 Safety and Security 14 Service Learning 18 Services Strategy 1 Services and Resources 241 Services and Resources 11 Sexual Harassment Policy 259 Sign Language (SLG) Courses 220 Small Business Management Certificate Program 136 Small Business Management (SBS) Courses 221 Society and Business (SBU) Courses 220 Sociology (SOC) Courses 220 Social Work (SWU) Courses 221 SouthWest Skill Center 142 Spanish (SPA) Courses 221 Special Assistance 15
Programs 133 Residency Guidelines 232 Schedule Changes 251 Scholastic Standards 250 Safety and Security 14 Service Learning 18 Services Strategy 1 Services and Resources 241 Services and Resources 11 Sexual Harassment Policy 259 Sign Language (SLG) Courses 220 Small Business Management Certificate Program Program 136 Small Business Management (SBS) 221 Society and Business (SBU) Courses 220 Sociology (SOC) Courses 220 Social Work (SWU) Courses 221 SouthWest Skill Center 142 Spanish (SPA) Courses 221 Special Assistance 15 Specialized Programs 165
Programs 133 Residency Guidelines 232 Schedule Changes 251 Scholastic Standards 250 Safety and Security 14 Service Learning 18 Services Strategy 1 Services and Resources 241 Services and Resources 11 Sexual Harassment Policy 259 Sign Language (SLG) Courses 220 Small Business Management Certificate Program 136 Small Business Management (SBS) Courses 221 Society and Business (SBU) Courses 220 Sociology (SOC) Courses 220 Social Work (SWU) Courses 221 SouthWest Skill Center 142 Spanish (SPA) Courses 221 Special Assistance 15
Programs 133 Residency Guidelines 232 Schedule Changes 251 Scholastic Standards 250 Safety and Security 14 Service Learning 18 Service Strategy 1 Services and Resources 241 Services and Resources 11 Sexual Harassment Policy 259 Sign Language (SLG) Courses 220 Small Business Management Certificate Program Program 136 Small Business Management (SBS) 221 Society and Business (SBU) Courses 220 Sociology (SOC) Courses 220 Social Work (SWU) Courses 221 SouthWest Skill Center 142 Spanish (SPA) Courses 221 Special Assistance 15 Specialized Programs 165 Speech Language Pathology (SLP) Courses
Programs 133 Residency Guidelines 232 Schedule Changes 251 Scholastic Standards 250 Safety and Security 14 Service Learning 18 Service Strategy 1 Services and Resources 241 Services and Resources 11 Sexual Harassment Policy 259 Sign Language (SLG) Courses 220 Small Business Management Certificate Program Program 136 Small Business Management (SBS) 221 Society and Business (SBU) Courses 220 Sociology (SOC) Courses 220 Social Work (SWU) Courses 221 SouthWest Skill Center 142 Spanish (SPA) Courses 221 Special Assistance 15 Specialized Programs 165 Speech Language Pathology (SLP) Courses 222
Programs 133 Residency Guidelines 232 Schedule Changes 251 Scholastic Standards 250 Safety and Security 14 Service Learning 18 Service Strategy 1 Services and Resources 241 Services and Resources 11 Sexual Harassment Policy 259 Sign Language (SLG) Courses 220 Small Business Management Certificate Program Program 136 Small Business Management (SBS) 221 Society and Business (SBU) Courses 220 Sociology (SOC) Courses 220 Social Work (SWU) Courses 221 SouthWest Skill Center 142 Spanish (SPA) Courses 221 Special Assistance 15 Specialized Programs 165 Speech Language Pathology (SLP) Courses 222 Strength, Nutrition, and Personal Training
Programs

ACADEMIC CALENDAR

SUMMER 2006	
Memorial Day Observed	May 20
First 5-Week Day and 8-Week Evening Sessions B	
First 5-Week Day Session Ends	_
Second 5-Week Day Session Begins	
Independence Day Observed	
8-Week Evening Session Ends	
Second 5-Week Day Session Ends	
·	C
FALL 2006	M 120 A 410
Registration	_
Classes Begin	
Late Registration	
Last Day for Withdray of without Instructor Signature	1
Last Day for Withdrawal without Instructor Signature	
Veteran's Day Observed	
Thanksgiving Break	
Last Day Withdrawal Accepted	
Final Exams	
Mid-Year Recess Begins	December 13
SPRING 2007	
Registration	
Classes Begin	
Observance of M.L. King Birtihday	
Late Registration	January 13 - January 19
President's Day Observed	
Last Day for Withdrawal without Instructor Signature	
Spring Break	
Last Day Withdrawal Accepted	
Final Exams	May 7 - 10

Commencement May 11