



CATALOG & STUDENT HANDBOOK 2017-2018 **EDITION**



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Visit us on the web at cgc.edu



WELCOME TO CHANDLER-GILBERT COMMUNITY COLLEGE

DR. WILLIAM GUERRIERO, ED.D. INTERIM PRESIDENT

Thank you for considering Chandler-Gilbert Community College as your partner in achieving your educational and career goals. Since 1985, thousands have chosen CGCC for its high academic standards, welcoming environment, and faculty and staff who truly care about student success.

We offer a broad range of courses and programs supplemented by a wide array of student support services, special events, clubs and athletics to enrich students' lives and to provide opportunities for service and learning beyond the classroom.

The Catalog & Student Handbook contains all the information you will need to begin your college experience. I encourage you to refer to it often throughout your stay at CGCC. A good place to start is the <u>Student Development Philosophy</u>. These sections of the Catalog will give you a clear picture of the unique aspects that make CGCC a great place to learn and grow.

On behalf of the entire CGCC team, I invite you to take the next step toward a promising and sustainable future by enrolling today!

William Guerriero, Ed.D.

William Guerriero

Interim President

2017-2018 ACADEMIC CALENDAR

Colleges/Centers may modify start dates in order to meet special needs. Dates listed below, which are directly related to instruction, refer to the traditional academic year. Some courses may be offered over time periods for which these dates are not applicable.

SUMMER SEMESTER - 2017 NOTE: SUBJECT TO THE 2017-20178 CATALOG

Tues	May 30	Summer Semester Begins
Tues	Jul 4	Observance of Independence Day
Thurs	Aug 3	Summer Semester Ends

FALL SEMESTER - 2017 NOTE: SUBJECT TO THE 2017-20178 CATALOG

Sat	Aug 19	Classes Begin
Mon	Sep 4	Observance of Labor Day
Mon	Oct 2	Spring 2018 Priority Registration for Currently Enrolled Students
Mon	Oct 9	Spring 2018 Open Registration Begins
		* Application for December 2017 Graduation*
		+ Last Day for Withdrawal without Instructor's Signature
Fri	Nov 10	Observance of Veterans Day
Thurs-Sun	Nov 23-26	Thanksgiving Holiday
		++ Last Day Student Initiated Withdrawal Accepted
Sun	Dec 10	Last Day of Classes
Mon-Thurs	Dec 11-14	Final Exams**
Fri	Dec 15	Mid-Year Recess Begins for Students
Fri	Dec 15	Fall Semester Ends [Last day of Faculty Accountability] Sat, Dec 9
		Mid-Year Recess (Campus Closed) Dec 25 through Jan 1

SPRING SEMESTER - 2018 NOTE: SUBJECT TO THE 2017-20178 CATALOG

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Mon	Jan 1	New Year's Day	
Sat	Jan 13	Classes Begin	
Mon	Jan 15	Observance of Martin Luther King, Jr. Holiday	
Mon	Feb 19	Observance of Presidents' Day	
Mon	Mar 5	Fall 2018 Priority Registration for Currently Enrolled Students	
		* Application for May 2018 Graduation*	
		+ Last Day for Withdrawal without Instructor's Signature	
Mon-Sun	Mar 12-18	Spring Break	
Mon	Mar 19	Fall 2018 Open Registration Begins	
		++ Last Day Student Initiated Withdrawal Accepted	
Sun	May 6	Last Day of Classes	
Mon-Thurs	May 7-10	Final Exams**	
Fri	May 11	Commencement	
Fri	May 11	Spring Semester Ends [Last day of Faculty Accountability]	
Mon	May 28	Observance of Memorial Day	

SUMMER SEMESTER - 2018 NOTE: SUBJECT TO THE 2017-20178 CATALOG

Tues	May 29	Summer Semester Begins
Wed	Jul 4	Observance of Independence Day
Thurs	Aug 2	Summer Semester Ends

^{*}For specific information concerning the last day to apply for graduation, individual class start dates, and final exams, consult the college of intended enrollment.

^{**}Classes meeting on Friday evening only, Saturday only, or Sunday only will have final examinations during their last regular class meeting.

⁺See your student schedule in https://my.maricopa.edu/ for the Last Day to Withdraw without an Instructor Signature for each class in which you are enrolled.

⁺⁺Refer to the Important Deadlines for Students section of the student handbook to determine the last day for student initiated withdrawal.



GENERAL INFORMATION

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

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

Vision

Our students are prepared to lead us into a promising and sustainable future.

Mission

We are a student-centered college that creates learning experiences and growth opportunities designed for our diverse communities.

Values

- Innovation through exploration
- Learning through experiences
- Growth through service
- Sustainability through engagement
- Inclusiveness through awareness

Student Development Philosophy

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

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

- To provide programs that assure student competence in specified academic and skill areas;
- To provide a full range and schedule of services to permit students to benefit from college programs;
- To provide simplified and clearly defined processes for admitting students, monitoring their progress and maintaining accurate academic records;
- 4. To provide activities that encourage students to effectively interrelate with others in their college and communities;
- To provide opportunities for the development of self-esteem, personal identity, independence and self-direction;

- To provide coordination with secondary and postsecondary schools, and business and industry;
- To provide delivery of instructional services through alternative systems which prepare students to function in an increasingly technological and informational-based society; and
- 8. To develop and implement a comprehensive staff development program to educate the staff in student development philosophy and practices.

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

Partnerships

The Maricopa Community Colleges have partnerships with the Arizona public universities (Arizona State University, Northern Arizona University, and the University of Arizona), and more than forty other institutions - nationally and internationally. These transfer partnerships assist students in making a smooth transition from one institution to the next by maximizing your Maricopa credits. In addition, many university partners offer Maricopa

graduates dedicated advisement as well as financial incentives such as tuition and transfer scholarships, waiver of application fees, textbook waivers, and special tuition incentives for military personnel. Visit maricopa.edu/transfer for more details.

Affiliations & Associations

ACCREDITATION COMMISSION FOR EDUCATION IN NURSING

The Nursing Program at Chandler-Gilbert
Community College is approved by the
Arizona State Board of Nursing and accredited
by the Accreditation Commission for
Education in Nursing (ACEN), 3343 Peachtree
Road NE, Suite 850, Atlanta, GA, 30326,
(404) 975-5000.

ACCREDITATION COUNCIL FOR EDUCATION IN NUTRITION & DIETETICS

The Dietetic Technology Program is a consortium program with locations at Chandler-Gilbert Community College and Paradise Valley Community College and is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics. Upon successful completion of the program, the graduate will be eligible to take the Commission on Dietetic Registration (CDR) examination in order to become a Dietetic Technician, Registered (DTR).



AMERICAN BOARD OF FUNERAL SERVICE EDUCATION (ABFSE)

The Associate of Applied Science degree in Mortuary Science at Chandler-Gilbert Community College is accredited by the American Board of Funeral Service Education (ABFSE), 992 Mantua Pike, Suite 108, Woodbury Heights, NJ 08097, (816) 233-3747, www.abfse.org

HIGHER LEARNING COMMISSION, NORTH CENTRAL ASSOCIATION

Chandler-Gilbert Community College is accredited by The Higher Learning Commission and is a member of the North Central Association; www.ncahlc.org; (800) 621-7440 or (312) 263-0456.

FEDERAL AVIATION ADMINISTRATION

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

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

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

DELTA LEASING, INC. DBA QUANTUM HELICOPTERS

CGCC and Quantum Helicopters in Chandler, Arizona have partnered to establish a joint flight training program at the Williams Campus and the Chandler Municipal Airport. The program supports the helicopter flight track of the Associate in Applied Science degree in Airways Flight Science and provides expanded opportunities for students in aviation.

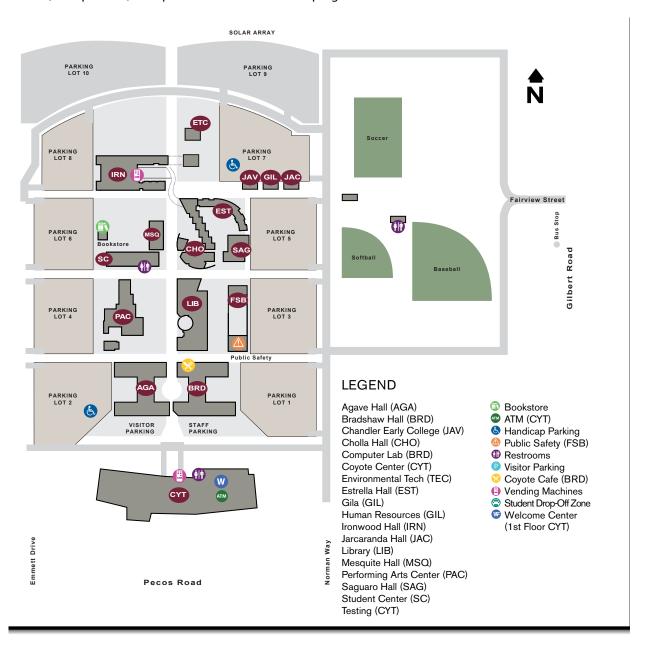
UND AEROSPACE FOUNDATION

CGCC and the University of North Dakota Aerospace Foundation have partnered to establish a joint flight training program at the Williams Campus. The University of North Dakota program is an internationally recognized leader in aviation education. CGCC's partnership with UND Aerospace presents a tremendous opportunity for students desiring a career in aviation flight.

Pecos Campus

2626 EAST PECOS ROAD CHANDLER, AZ 85225-2499 (480) 732-7000

The Pecos Campus of CGCC is located on Pecos Road between Cooper and Gilbert Roads in Chandler. CGCC's original campus opened in 1987 and is home to numerous associate degree, university transfer, general studies, occupational, and special interest courses and programs.

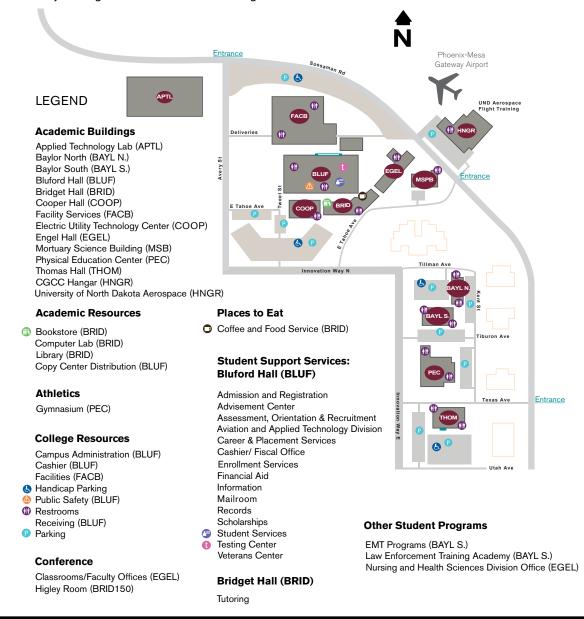


Directions: The Pecos Campus is located just north of the San Tan freeway (Loop 202 south) between the Cooper and Gilbert road exits.

Williams Campus

7360 EAST TAHOE AVENŪE MESA, AZ 85212-0908 (480) 988-8000

The Williams Campus of CGCC is near the Phoenix-Mesa Gateway Airport on Sossaman between Ray and Williams Field roads. Opened in 1995 on the former Williams Air Force Base, the Williams Campus is a comprehensive campus offering associate degrees, certificates and a wide array of general studies and university transfer courses. The campus neighbors ASU Polytechnic for the benefit of students interested in completing their four-year degree in one location. Housing is available.



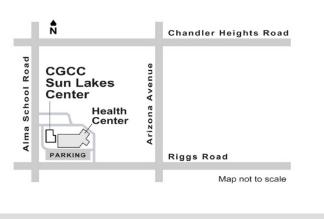
Directions: The Williams Campus is located just west of the Phoenix-Mesa Gateway Airport between Power and Sossaman roads.

Sun Lakes Center

25105 SOUTH ALMA SCHOOL ROAD SUN LAKES, AZ 85248-6101 (480) 857-5500

The Sun Lakes Center of CGCC is located at the northeast corner of Alma School and Riggs in Sun Lakes. The Center focuses on the lifelong learning needs of the mature adult population in the Southeast Valley.



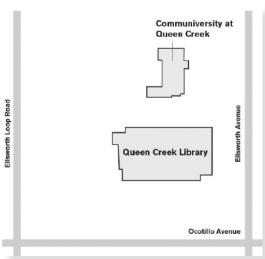


Communiversity at Queen Creek 21740 SOUTH ELLSWORTH ROAD

21740 SOUTH ELLSWORTH ROAD QUEEN CREEK, AZ 85142 (480) 726-4182

Chandler-Gilbert Community College at Queen Creek is located at the intersection of Ocotillo and Ellsworth roads next to the Queen Creek Library. Students can enroll, receive advisement, register for any CGCC class and attend classes at this downtown location.







COLLEGE SERVICES & REGULATIONS

Admissions, Records, and Registration

Admissions, Records, and Registration services are located in the Coyote Center at the Pecos Campus and in Bluford Hall at the Williams Campus. The office provides the following services:

- Assists with information about accessing the https://my.maricopa.edu Online Student Center
- Processes admissions forms, class registrations, and withdrawals
- Evaluates transfer credit and other credit from prior learning
- Verifies credits for graduation
- Determines residency for tuition purposes
- Verifies athletic eligibility
- Processes official transcripts and enrollment verification requests
- Hears Admissions and Standards appeals, including refund issues (requests must be in writing)

For additional information, visit admissions or call (480) 732-7320 at the Pecos Campus and (480) 988-8000 at the Williams Campus.

Athletics

Chandler-Gilbert would like to welcome students to the Coyote athletic programs.

CGCC is looking forward to another successful season of intercollegiate competition in the Arizona Community College Athletic Conference. CGCC student athletes not

only distinguish themselves on the athletic fields, but also in the classroom, setting high standards for future CGCC athletes.

Volleyball and basketball games are played at the CGCC Williams Campus Gym. Softball and baseball games and soccer matches are played on fields at the Pecos Campus.

For more information, visit athletics or call:

Women's Volleyball	(480) 732-7365
Men's Baseball	(480) 732-7364
Men's & Women's Golf	(480) 732-7073
Men's & Women's Soccer	(480) 732-7363
Women's Basketball	(480) 732-7357
Men's Basketball	(480) 732-7366
Softball	(480) 732-7168
Athletic Trainer	(480) 732-7003
Athletic Director	(480) 732-7177
Academic Advisement for Athletes	(480) 732-7364

Bookstore

Students at the Pecos Campus and the Sun Lakes Center are able to purchase books and supplies through the Bookstore located in a modular building west of the Student Center (Building SC) on the Pecos Campus. Students at the Williams Campus are able to purchase books and supplies at the Bookstore located inside Bridget Hall.

The Bookstore also carries gifts, clothing, book bags, semester and 31 day bus passes, official school rings, and gift cards.

The Bookstore allows students to pay with cash, check, or major credit card. Complete payment and refund policies are posted at the Pecos and Williams Campus Bookstores.

Because Follett Higher Education Group manages the Pecos Campus Bookstore and Williams Campus Bookstore, students also have the option of prepaying for and/or shipping their current semester's textbooks on-line at www.chandler.bkstr.com

Call (480) 732-7352 for additional information about the Pecos Campus Bookstore. Call (480) 988-8106 for additional information about the Williams Campus Bookstore.

Career Services

- Plans
- Major
- Career
- Future

Where are you going from here? Career Services is the place to talk about your major whether you need to decide on one or need help figuring out how to connect with your profession through a job or other experiences. The Career Services Office has two locations in which to serve the students of Chandler-Gilbert Community College.

Locations:

- Coyote Center at the Pecos Campus
- Bluford Hall at the Williams Campus

Students seeking career related information can also visit the Career Services section of the CGCC web site at www.cgc.edu/careers
For more information call (480) 857-5211 to speak with a career advisor.

Career and Technical Education

Career and Technical Education (CTE) works collaboratively and responsively with our community to meet the needs of our diverse student population in preparing them for life, work, and careers. We provide quality resources and support to educators and students that enhance classroom learning. Additionally, we support campus and community activities that enhance academic achievement, technical skills, and productive citizenship to build stronger communities.

To contact CTE or to find more information on how this area can assist you, please call (480) 732-7361, or in person at the Pecos Campus on the second floor of the Library in room LIB242 and at Bluford Hall room BLUF102 at the Williams Campus, or call (480) 988-8601.

Computer Labs

Currently enrolled students who require computer resources to complete class assignments have access to open Computer Labs located on the Pecos Campus in Bradshaw Hall, room BRD123, and on the Williams Campus in Bridget Hall inside the library. Open Computer Labs feature self-paced learning environments in which students study course materials, complete assignments, and research information. Computer Lab learning associates and student assistants are available for general questions. Students who need assistance with assignments or materials related to a specific

class should contact their instructors.

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

Counseling Services

Counseling Services is a comprehensive academic and service program designed to promote student success and personal development at Chandler-Gilbert Community College. As a professional discipline, Counseling is based on values that include respecting the dignity of all people, celebrating the dimensions of personal identity that make us unique, recognizing and building on one's strengths and abilities, and empowering individuals to identify and pursue their own life goals. We appreciate that each student enters college with different life experiences, whether entering directly from high school or returning to school after years of work or military service. It is our goal to help students to overcome challenges they may be facing and help them achieve success in their academic, career, and personal goals.

On the Pecos campus, Counseling Services is located in the Bradshaw Hall, room BRD101. At Williams, we are located in Bluford Hall, room BLUF141. Find us online at www.cgc.edu/counseling for information about hours, maps, and current program offerings.

CPD COURSES

One way in which we support students is through offering a range of Counseling & Personal Development (CPD) courses. The most popular of these courses is CPD150: Strategies for College Success, which provides students with a range of skills and knowledge to assist them in improving their academic performance, making progress with their career exploration and development process, and increasing awareness of campus resources here to support them through graduation or university transfer. Other courses we offer include Human Sexuality, Introduction to Multiculturalism, and Stress Management.

CLASI WORKSHOPS

In addition to teaching CPD courses, our Counseling Faculty also offer a variety of CLASI (Classroom Academic Skill Integration) workshops each semester. These interactive workshops, which can be attended in person or taken as a series of online modules, offer students the opportunity to learn about common academic challenges and techniques to overcome them. Topics offered include: Motivation & Procrastination, Time Management, Listening & Note-taking, Transition to College, and Test Anxiety.

INDIVIDUAL AND GROUP COUNSELING

Outside the classroom, students sometimes need additional support to manage specific concerns or issues that are hindering their best efforts to be successful. Our faculty counselors provide free, confidential counseling sessions for enrolled students.

- Academic Counseling
 - Balancing life, work, and school demands
 - Study strategies and time management
 - Test anxiety
- Career Counseling
 - Interpretation of career assessments
 - Exploring majors and career options
 - Goal setting and decision-making
- Personal Counseling
 - Solution-focused problem solving
 - Successful college adjustment
 - Stress management and coping skills
- Crisis Intervention
 - Supporting students, faculty, and staff to promote the safety and well-being of the campus community
- Referrals
 - Provide referral information for students seeking mental health services, psychological assessments, and other community resources

For more information, or to schedule an appointment, please refer to our website at www.cgc.edu/counseling, or call 480.732.7158 during normal business hours.

Disability Resources & Services

Please see Student Support and Disability Resources & Services.

Distance Learning

Distance learning courses, also referred to as e-learning courses, are taught via the Internet and may be entirely or partly online. Courses taught partly online are identified as hybrid in CGCC class schedules. E-learning courses cover the same material as courses taught in person. To be successful in e-learning courses students should possess a reasonable level of comfort with technology and have consistent access to a computer with a reliable Internet service provider. E-learning courses are for students who are self-motivated and are able to learn independently using online tutorials and assignments. Communication among students, and between students and instructors, is mediated by Canvas, the Learning Management System (LMS) used for online and hybrid courses. Each student is assigned a Maricopa email address, which is the official means of electronic communication between the College and students. For more information on distance learning courses and to find out if this style of learning is right for you, go to

www.cgc.edu/elearning

Dual Enrollment

Dual Enrollment provides an opportunity for eligible high school students to take college level courses at their high school. These courses allow students to earn both high school and college credit for the same class. Classes meet at the high school during the regular school day and are taught by college

certified instructors using approved curriculum and texts. The credits earned may be used toward an Associate's degree, and most can transfer to universities. Dual Enrollment courses let students begin their college career in a convenient and affordable way. These courses enhance learning and promote higher level cognitive skills. Best of all, transition from high school to college begins early and occurs in a familiar and comfortable environment.

To learn more about Dual Enrollment offerings with our partner school districts please visit our website at www.cgc.edu/dual or call (480) 732-7006.

Early Outreach

The Office of Early Outreach provides programs for K-12 students. The office oversees the following programs:

ACE PROGRAM

The ACE Program (Achieving a College Education) is an early outreach, two-year tuition scholarship college preparation program for high school 10th graders. The mission of the ACE Program is to increase the college success rate of underrepresented, financially disadvantaged, and/or first-generation college-bound students. Students must demonstrate evidence of commitment to graduate from the program while attending high school. Students may apply directly through this office at (480) 857-5188 or through the ACE contact at their high school.

HOOP OF LEARNING

(NATIVE AMERICAN STUDENTS, 9TH THROUGH 12TH GRADERS)

The Hoop of Learning program at CGCC is designed to provide educational opportunities for Native American students in high school grades 9 through 12 to earn college credits. High school students can apply with CGCC or through their local high school counselor. For more information, please contact Carriann Dehiya at (480) 732-7255.

SPECIAL EVENTS

The Office of Early Outreach works with a variety of K-12 and community partners to create college-bound events for K-12 students. An example of our successful partnerships with the Chandler Unified School District is a program called Destination College. Destination College is a summer school program for 3rd, 4th, and 5th graders. Students learn about the importance of reaching their educational goals while they are still in elementary school. For more information, please contact (480) 732-7205.

UNDERAGE STUDENTS

(15 YEARS AND YOUNGER)

Students who are 15 years of age and younger are required to make an appointment with the Underage Advisor prior to registering for classes by calling (480) 732-7255. Prior to meeting with the advisor, these students must obtain a Request for Admission/Enrollment form available at Admissions, Records, and

Registration or the Advising Center and complete the Accuplacer placement exams in English, reading, and math when applicable. At least one parent or guardian must accompany the student when meeting with the advisor to discuss college expectations and class options. In addition, there is a mandatory orientation that the student and at least one parent or guardian must attend.

Enrollment Services

Enrollment services, located on the Pecos
Campus in the Coyote Center, includes
Academic Advisement; Admissions, Records,
and Registration; Financial Aid; the Testing
Center; New Student Orientation; and
Recruitment Services. These departments
help insure student success by facilitating
the advisement, registration and retention of
students.

See also: Admissions, Records and Registration on page 15 and Financial Aid page 22 and Veterans Services on page 34

ACADEMIC ADVISEMENT

Academic advising services are available in the Coyote Center on the Pecos Campus and in Bluford Hall at the Williams Campus. Limited advising services are available at the Communiversity at Queen Creek, students should call in advance for details.

Academic advising helps students to:

- Define and achieve educational goals
- Understand initial placement into English, mathematics, and reading courses

- Explore degree programs, plan a program of study, and assist in selection of academic classes
- Transfer to and from other colleges
 It is recommended that all students meet
 with an academic advisor at least once each
 semester.

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

Students can access on-line advisement tools and check sheets for CGCC certificates, degrees, and transfer programs; these tools can be printed for informational purposes and used during an advisement session.

MY.MARICOPA.EDU ONLINE STUDENT CENTER

At https://my.maricopa.edu students can do the following:

- Apply for admission
- Register for courses
- Check class schedule
- Add/drop courses
- Request official transcripts
- View unofficial transcripts

- Check holds
- Check fee balance and pay fees
- View financial aid
- Check student grades
- Update address/phone
- Check course availability

NEW STUDENT ORIENTATION

Attending New Student Orientation is your first vital step toward Starting Smart and becoming a successful college student.

Attending an orientation session prior to the start of classes is mandatory for all students new to CGCC. At New Student Orientation you will:

- Meet current students, administrators, faculty, and staff
- Learn about important support resources and departments on campus
- Gain knowledge and skills that will contribute to your success as a student
- Take a campus tour

If you have any questions, please contact the Office of Student Recruitment & Orientation at (480) 732-7385 or e-mail

recruitment@cgc.edu

OFFICE OF STUDENT RECRUITMENT

The Office of Student Recruitment provides information to future students about various academic programs, services, and resources available at Chandler-Gilbert Community College. To schedule a campus tour or request information, call (480) 732-7385, visit the web at www.cgc.edu/recruitment or email recruitment@cgc.edu

PLACEMENT TESTING

Course placement testing is the process of evaluating students' present skills in English, reading, and mathematics to assist students in choosing courses that match their skills. Course selection is based on scores from course placement tests.

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

Upon entry, new students will:

- Complete information about educational background and current college goals
- Complete the course placement tests in English, reading, and mathematics
- Obtain placement test results and course recommendations that students can then take to Advisement to work with an academic advisor for course selection

The Testing Center at the Pecos Campus is located in the Coyote Center on the second floor. The Testing Center at the Williams Campus is located in Bluford Hall.

For information regarding the times of the test sessions at the Pecos and Williams Campus, visit www.cgc.edu/testing For additional information for the Pecos Campus call (480) 732-7159 or call the Williams Campus at (480) 988-8000.

Facilities Services

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

Financial Aid and Scholarships

The Financial Aid Office, located in Coyote Center at the Pecos Campus and in Bluford Hall at the Williams Campus, is responsible for the following student services functions:

- Financial aid
- Scholarships
- Federal Work-Study

Financial Aid Answer Center telephone number is 855-622-2332 (toll free) and available 24 hours/7 days a week.

See also: Enrollment Services on page 20

FINANCIAL AID

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

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

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

Students must apply and qualify for financial aid each academic year. In order to be considered for assistance, students need to complete the Free Application for Federal Student Aid (FAFSA). The application process requires approximately two months, so it is best to apply as early as possible before the semester of attendance. Students should complete an application on-line at www.fafsa.gov as soon as possible each year in order to be considered for all available fund programs.

Students must be making satisfactory academic progress in order to receive financial aid. Contact the Financial Aid Answer Center for specific details: 855-622-2332 or visit the Financial Aid website at www.cgc.edu/aid

SCHOLARSHIPS FOR STUDENTS

Scholarships are available for prospective students as well as currently enrolled students. Because the applications and deadlines vary for each scholarship, applying early is critical. Completion of the federal financial aid application may be required for some scholarships. Visit www.cgc.edu/ scholarships or contact the Financial Aid Office for applications and information.

FEDERAL WORK-STUDY

Federal Work-Study positions are coordinated through the Financial Aid Office and Career Services on the Pecos Campus. Visit the web site at www.cgc.edu/aid/workstudy for more information.

Food Services

CGCC has two full-service dining options: The Coyote Cafe is located in Bradshaw Hall, Room BRD133, at the Pecos Campus and the Roadrunner Cafe is located in Bridget Hall, BRID138, at the Williams Campus. Grounds for Thought, a coffee shop, is located near the Ironwood Courtyard at the Pecos Campus.

Food service for the CGCC community is provided Monday-Friday, but hours of operation may vary. Food Services also provides catering for special events, banquets, and meetings. The manager is glad to hear students' comments and assist with catering arrangements. Visit www.cgc.edu/food or call (480) 732-7362.

Institutional Research

The Institutional Research office, located on the Pecos Campus in Bradshaw Hall, Room BRD160, provides assistance to academic and student affairs by collecting and analyzing information used to improve the quality of education and services and ensure student success. The office accomplishes this task by coordinating the development and implementation of the Institutional Effectiveness Plan, providing administrative support to the Student Learning Outcomes Assessment Committee, and providing appropriate research support to faculty and staff to improve the delivery of products and services. Call (480) 857-5118 or visit

www.cgc.edu/ir

International **Education Program**

PROGRAM CONTACT:

ANNIE JIMENEZ ~ (480) 732-7391 OR (480) 726-4236

iep@cgc.edu_or www.cgc.edu/ss/intl

The International Education Program (IEP) aims to promote an environment that encourages global understanding, appreciation and citizenship by providing support services and programs that enhance academic, cultural and social international efforts of Chandler-Gilbert

Community College and the community. IEP is committed to providing services and support for students, faculty, and staff who are interested in an international dimension to their learning, research or teaching. Student support services and activities include immigration counseling, admissions, orientation, ESL advisement, intercultural adjustment, study abroad programs, and workshops. IEP also provides support for the Intercultural Exchange Club and organizes cultural activities to enhance cross-cultural understanding among domestic and international students on campus.

IEP is located on the 2nd floor of the Coyote Center at the Pecos Campus. For more information.

Learning Center (Tutoring)

The Learning Center mission is to support students' academic learning by providing free tutoring and resources to reinforce and supplement classroom instruction and to assist students to achieve academic success. While the emphasis is on providing writing, mathematics, and science support, services are available for a wide range of academic courses at CGCC. Tutoring services are available on a drop-in basis for many courses, by appointment for select courses and online. Resources include workshops, software, and print materials.

Students must be enrolled at CGCC in the class for which they are seeking assistance.

For more information, visit <u>www.cgc.edu/lc</u> or call (480) 732-7231.

MATHEMATICS AND SCIENCE TUTORING

The Math and Science Centers are valuable resources to assist CGCC students with a variety of math and science courses by offering tutoring and resources to supplement classroom instruction. The Math and Science tutoring program at the Pecos Campus is located on the second floor of the Library, rooms LIB227, LIB228 and LIB229. At the Williams Campus, tutoring takes place in Bridget Hall, room BRID115. A schedule of tutoring hours and services is posted at the beginning of each semester.

The Math and Science tutoring program offers:

- Drop-in tutoring for math, chemistry, biology, physics, engineering, and statistics
- Trained tutors, including math and science faculty
- Computers with mathematics and science software
- Calculators and current textbooks
- Reference materials, handouts, science models and microscopes
- Interactive workshops focusing on a variety of mathematics and science topics

WRITING CENTER

The Writing Center is a valuable resource to assist CGCC students with their writing needs in all of their college courses. The Writing Center helps students address a wide range of writing concerns, from how to determine whether they have a good thesis, to how to organize their work, revise more effectively, and document sources accurately. The Writing Center at the Pecos Campus is located on the second floor of the Library, room LIB230. Writing tutors are also available at the Williams Campus in Bridget Hall, room BRID114. A schedule of tutoring hours and services is posted at the beginning of each semester.

The Writing Center services include:

- Individual writing sessions with knowledgeable tutors
- Drop-in tutoring (no appointment needed)
- Reference materials and handouts
- A comfortable, quiet study area for individual or small-group work
- Computers for academic use with ESL and grammar software
- Interactive workshops focusing on a variety of writing topics

Library

HOURS: FALL AND SPRING

Pecos

Monday-Thursday, 7:30am -9:00pm

Friday, 7:30am-2:00pm

Saturday, 8:00am-2:00pm

Sunday, closed

Circulation: (480) 857-5102

Reference: (480) 857-5100

Williams (Bridget Hall)

Monday-Thursday, 8:00am-8:00pm

Friday, 8:00am-2:00pm Saturday & Sunday, Closed

Circulation: (480) 988-6611 Reference: (480) 988-8275

Visit the Library's website for the most up-todate hours and holiday closure information:

www.cgc.edu/library

The Libraries at Chandler-Gilbert Community College offer a full-range of library services that support the academic mission of the College. The libraries provide access to a full-range of information in a variety of formats including web-based, traditional print and multimedia. Library faculty teach the identification, location, and critical evaluation of the dynamic information world. We also provide virtual and face-to-face reference assistance. Library staff assists patrons with interlibrary loan requests, course reserves, and study room reservations.

The Library has 10 conference/study rooms; three library instruction classrooms; access to subscription databases; magazines, journals, and newspaper display and storage; and wireless Internet access.

ELECTRONIC RESOURCES

Students, faculty, and staff will use their MEID to access the Library's electronic resources.

STUDENT ID/LIBRARY CARDS

Can be obtained from Enrollment Services located in the Coyote Center and are needed to check out library materials.

Parking

Students taking classes at the Pecos Campus must display an MCCCD parking decal to park on campus property. To obtain a decal, students must register their vehicle at the Coyote Center with current license plate information. Decals are available at no charge.

Students taking classes at the Williams
Campus must obtain and display an MCCCD
parking sticker with a year validator. These are
available from Williams Campus Public Safety
at no charge for students, faculty and staff.

CGCC students and employees choosing to park vehicles on Arizona State University Polytechnic campus property are required to register their vehicles and purchase and display ASU parking decals. ASU parking decals can be purchased from the ASU Polytechnic Campus Decal Sales office located in the Student Affairs Complex.

CGCC students and employees are subject to ASU Polytechnic Campus parking and traffic regulations when parking on ASU Polytechnic Campus property and are also responsible for any citations and/or penalties resulting from parking violations.

PARKING VIOLATION PENALTIES

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

All monetary fines shall be paid to the college cashier in the Cashier/Fiscal office. Payment

may be made in person or by mail. Failure to pay or appeal a citation within 15 working days of date of issue will result in the fine being doubled. In order to insure due process, fines may be appealed to the assigned appeals officer at the Public Safety Building on the Pecos Campus.

Practical Instruction

Some courses and programs of study require students to participate in practical instruction, which may include internships, practicums, clinical placements, field experience or other types of hands-on demonstration by students of concepts or theories learned in instructional settings on campus or online. Practical instruction may require students to travel to approved sites throughout the Maricopa Community College District service area, and may also require students to meet eligibility requirements such as fingerprint clearance, background checks, drug testing, and operating various types of motor vehicles.

Complete information on practical instruction can be found in recruitment materials and student handbooks for specific instructional programs.

Public Safety

The Public Safety Department is responsible for maintaining a safe, orderly, and peaceful atmosphere on campus to contribute to student development and success. It was formed with these objectives in mind, and is staffed by qualified safety personnel, including Public Safety Officers. The Public

Safety Department is located in Public Safety Building (PSB), at the Pecos Campus and in Bluford Hall at the Williams Campus.

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

Services to students, faculty, and staff include:

- Providing safety escorts to and from parking lots upon request.
- Assisting students, faculty, and staff in case of accident or injury on campus
- Providing minor assistance to motorists with disabled vehicles
- Delivering emergency messages from family to students in classes
- Enforcing parking regulations on campus
- Providing Lost and Found services
- Administering college vehicle use
- Patrolling campus
- Encouraging student, faculty, and staff participation in safety and crime prevention programs

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

EMERGENCIES

In the event of emergencies on campus, contact the Public Safety Department at

(480) 732-7280 at the Pecos Campus or (480) 988-8888 at the Williams Campus. Emergency telephones are located at the entrances to all parking lots of the Pecos Campus and ring directly into the Public Safety Department. Call 911 in the event of a life-threatening emergency.

EMERGENCY NOTIFICATION SYSTEM

Chandler-Gilbert Community College uses a mass notification system in order to communicate with students and employees in the unlikely event of an emergency at the college. Student contact information (cell phone number, home phone, email address etc.) provided at the time of registration will automatically be used in the college notification system. Be assured, that students and staff will only be contacted for emergency purposes. The system will not be used for other purposes.

STUDENT IDENTIFICATION CARDS

Student identification (ID) cards are obtained from the Enrollment Services Office, located in the Coyote Center at the Pecos Campus or in Bluford Hall at the Williams Campus. The first card is free and can be obtained after payment of tuition and fees.

Public Safety Regulations

IDENTIFICATION

Public Safety personnel are authorized to ask any person on campus for proper identification, should the need arise. Students

failing or refusing to identify themselves properly will be:

- Asked to leave the campus (if conduct or behavior warrants such action), and
- Reported to the Vice President of Student Affairs.

WEAPONS

All firearms, explosives, knives, or instruments that can be construed as dangerous weapons are prohibited on campus. All persons bringing firearms or other weapons for classroom demonstrations or any other academic reason are required to bring them to the Public Safety Department for examination.

MOTOR VEHICLES

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

VEHICLE DAMAGE OR LOSS

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

VEHICLE REGISTRATION

Students and all employees who drive motor vehicles on any CGCC campus are required to register all vehicles that may be used on college property with the Public Safety Department. Individuals who subsequently purchase or trade their registered vehicles must register the new vehicles.

An out-of-state/out-of-country student or college employee who operates or parks a

motor vehicle on college property must sign an affidavit at the time of registration certifying that the vehicle complies with A.R.S. 49-542 relating to vehicle emission testing. Vehicles which do not comply with A.R.S. 49-542 will not be granted a permit.

Vehicles must be registered in person at the Coyote Center at the Pecos Campus and in Bluford Hall at the Williams Campus.

COLLEGE TRAFFIC REGULATIONS

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

- 1. Maximum speed limit on campus is 15 m.p.h.
- 2. Students and employees who have been issued parking permit decals following vehicle registration with the Public Safety Department must display the decals in accordance with current regulations.
- Drivers must observe and comply with stop signs, pavement arrows, right-turn-only signs, and other traffic control devices. All vehicles must stop at marked crosswalks to yield to pedestrian traffic within the crosswalks.
- 4. Persons driving on campus must follow directions given by Public Safety officers and furnish student or other identification when so required.
- Students may park in any parking space except those marked Visitors, Handicapped, Maintenance, Employees, No Parking, or any area with a red or yellow curb.

- Persons having a Handicapped designation on their vehicle may use any marked space on the campus, including those marked Handicapped, except those areas with red or yellow curbs.
- 7. No vehicle other than an emergency vehicle may be parked along red curbs or in striped areas. These are fire-hazard and safety zones, and violators will be towed away without warning at the owner's expense.
- 8. No vehicle may be parked in driveways, where signs indicate No Parking, or in areas not specifically marked for parking.
- Visitors may use student zones on a temporary basis. Visitor permits may be obtained from the Public Safety Department.
- 10. In angled parking spaces, no vehicle may be parked in a direction opposite the normal direction of traffic.
- 11. Parking of motorcycles, mopeds and bicycles:
 - a. Students are urged to exercise care in securing their personal property, including motor vehicles, bicycles, mopeds, and motorcycles.
 - b. Motorcycles and mopeds may be parked only on crossbars. Bicycles must be parked in existing bike racks only.
 Mopeds, bicycles, and/or motorcycles that are found chained or affixed to trees, buildings, or light posts are subject to having their chains cut and being removed to the Public Safety Department. Owners will be responsible for the cost of the lock or cut chain.

Student Dress Code

Students are expected to dress appropriately and in good taste at all times while on campus, in the classroom, or in the Student Center.

Students are required to wear some type of shirt in addition to other normal apparel. State Health Department laws and college policy require that all students wear shoes.

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

Student Employment

More information is available in the Career Services Office in the Pecos Campus Coyote Center; (480) 857-5211.

Student Financial Services

The Student Financial Services office manages financial operations for the college, including tuition and fee collections, and provides financial accountability to funding agencies and individuals. Trained and qualified staff members also provide student assistance during both day and evening hours in the Coyote Center at the Pecos Campus and in Bluford Hall at the Williams Campus. Students and parents who have "non-financial aid"

questions should call (480) 732-7312 or e-mail at <u>askcashiers@cgc.edu</u>. Students can also visit <u>www.cgc.edu/fiscal</u> for additional information.

Student Helpline

SUPPORT FOR STUDENT CONCERNS, COMPLAINTS AND COLLEGE WIDE ISSUES IN AND OUT OF THE COLLEGE CLASSROOM.

Chandler-Gilbert Community College is committed to the development of our students. Students may need support to review and resolve complaints, concerns and issues that they face here at the college in and out of the classroom.

The following steps are recommended to any student who has a problem and need some guidance as to next steps. This support relates to any college issues related to classes, faculty, other students, college services, college staff and events and activities. We will also help direct students to personal and academic support. Our role is not to judge your complaint or concern but to help you resolve it in an appropriate manner.

If you need someone to help you figure out where to start with you complaint or concern, please follow the steps listed below.

1. Call (480) 732-7322 for support. We will listen to your concern and help direct you through the appropriate process.

We offer non-judgmental support to all CGCC students. This office serves as an advocate for any student issues at CGCC.

- You can leave a recorded message on this line 24 hours a day. Please leave your name, your concern and a student advocate will return your call and help you with your issue, complaint or concerns.
- 3. Email student-helpline@cgc.edu directly. Please explain what is happening, your name and the best way to contact you. Emails are responded to on a daily basis.

The VFSA's Office provides information on all student services and the following MCCCD policies:

- Student Rights and Responsibilities
- Student Conduct and Grievances
- ADA Accommodations
- Sexual Harassment Issues
- 504 and Title IX

Student Housing

Student residential living is available at the Williams Campus for those students who meet eligibility and criteria. Two-, three-, four-, and five bedroom houses and residential hall rooms and suites are available for rent. Housing at the Williams Campus is open to any student enrolled in the minimum number of credit hours at one of the Maricopa Community Colleges.

Verification of Continuing Students and Good Standing: Student status and eligibility to remain in residential living will be verified each term. To remain in good standing and continue residing on the Williams Campus, students need to be enrolled throughout the term(s) and meet all requirements of the housing agreement. Contact the Williams

Campus Housing Office at (480) 727-1700 for specific information, or visit the web site at https://housing.asu.edu

Student Identification Cards

Student identification (ID) cards are obtained from the Enrollment Services Office, located in the Coyote Center at the Pecos Campus, or in Bluford Hall at the Williams Campus. The first card is free and can be obtained after payment of tuition and fees. The card is used to access many of the services on campus including the Library and Fitness Center and should be kept from semester to semester. Replacement cards can be purchased for \$5 at the Fiscal Office, located in the Coyote Center, at the Pecos Campus, or the Aviation and Technology Center at the Williams Campus.

Student Immunization

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

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

All Arizona State Universities require immunization for admittance.

Student Insurance

More information is available <u>here</u>. Or please visit or contact the Office of the Vice President

of Student Affairs in the Pecos Campus; (480) 732-7322.

Student Life and Leadership

All students are encouraged to participate in programs and activities sponsored by the Office of Student Life and Leadership located in the Student Pavilion at the Pecos Campus and Bridget Hall at the Williams Campus. There are many opportunities to enhance classroom experience with cocurricular activities. These include leadership development, community service programs, cultural events, and an opportunity to participate in one of the many student organizations. For additional information visit www.cgc.edu/student/life To participate in campus, community service programs, or Service-Learning call the Office of Student Life and Leadership at (480) 732-7104.

LEADERSHIP DEVELOPMENT

GETTING INVOLVED - LEADERSHIP RETREATS AND LEADERSHIP ACTIVITIES

Leadership retreats are organized to increase students' leadership skills during the fall and spring semesters. Interested students are encouraged to call the Office of Student Life and Leadership.

COMMUNITY SERVICE AND VOLUNTEER OPPORTUNITIES

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

SERVICE-LEARNING

This is an exciting program designed to integrate community service into the classroom. This program benefits everyone involved: students, faculty members, and the community. Students interested in participating in Service-Learning events or wanting further information are encouraged to stop by or call the Office of Student Life and Leadership at the Pecos Campus for more information at (480) 732-7069.

INTO THE STREETS

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

ADOPT-A-FAMILY PROGRAM

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

CGCC STUDENT ORGANIZATIONS

The list of student organizations at CGCC grows each year. Listed below are the current, officially recognized groups.

Student organizations may be formed for many purposes—social, service, athletic, professional, and religious. Current information is available in the Office of

Student Life and Leadership. For more information about student organizations visit or contact the Student Life office.

- APIC Asian Pacific Islander Club
- Business Professionals
- Educators Rising
- Engineering Club
- HELP Hands Enriching Life Program
- HSO Hispanic Student Organization
- IEC Inter-cultural Exchange Club
- Kairos Christian Club
- MEN Male Empowerment Network
- One Voice
- Pre-Health Professionals Club
- Psychology Club
- PTK Phi Theta Kappa
- Student Veterans Organization
- Womens Rising

HOW TO CREATE A STUDENT ORGANIZATION

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

CO-CURRICULAR AND MULTICULTURAL PROGRAMS

Co-curricular programs are fairly new programs that refers to activities, programs, events, and learning experiences that

compliment what students at Chandler-Gilbert Community College are learning in the classroom. These Co-curricular opportunities connect to or mirror the academic curriculum.

The office of Student Life and Leadership values diversity and inclusion by providing multicultural opportunities for students to attend heritage events and learn about different cultures.

Students interested in participating in Cocurricular or Multicultural events on campus are encouraged to stop by or call the Office of Student Life and Leadership.

COLLEGE AND STUDENT ACTIVITIES BUDGETS

CGCC allocates funds to a variety of college and students activities. These funds cover a host of special events, cultural celebrations, co-curricular activities, academic recognitions, service learning, and a variety of performing arts activities. Please contact the Vice President of Student Affairs' Office at (480) 732-7322 for more information.

VOTER REGISTRATION

Students and community members have the opportunity to register to vote in the Office of Student Life and Leadership at CGCC. Voter registration is also available on-line at www.azsos.gov or by calling (877) THE-VOTE [(877) 843-8683]. Contact the Office of Student Life and Leadership at (480) 732-7104 or visit www.azsos.gov for registration deadlines and election dates.

Student Support and Disability Resources & Services

This department provides student-centered support services and programs for CGCC's diverse student population and those individuals with disabilities. The department is located on the Pecos campus in the Bradshaw building (BRD101). For more information, contact (480) 857-5188.

DISABILITY RESOURCES & SERVICES (DRS)

DRS provides access and ongoing support services to students who have a documented disability according to The Americans with Disabilities Act (ADA), and Section 504 of the Rehabilitation Act. Students will apply for services and request academic adjustments through MCCCD's DRS CONNECT system. All registered students must provide appropriate and current documentation that complies with MCCCD documentation policy and guidelines. DRS provides: education and information regarding student rights and advocacy and academic adjustments that support student learning.

Technical Support Services

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

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

TSS provides technical support at the Pecos Campus, Williams Campus, Sun Lakes Center, and the Communiversity at Queen Creek. CGCC's intra-network design provides connectivity to a variety of network environments including the Internet and wireless, in support of cross-platform workstations running Windows, Macintosh OS, and Unix.

Trained, qualified staff members are available for delivering technical services, implementation, and support for instructional and administrative systems. For technical assistance or coordination of technical support issues please call the Technical Support Helpdesk at (480) 732-7025 or visit the web site at www.cqc.edu/tss

Travel by Students

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

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

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

Trip Reduction Program

Full-time students are encouraged to participate in Maricopa County's Trip Reduction Program (TRP). Discounted bus passes, reserved carpool parking, free showers, and contests and prizes are available to qualified participants. Interested students should check with the Student Center information desk (SC100) or contact the college Trip Reduction Coordinator for details. Complete information about the program is available at www.maricopa.edu/trip

Veterans Services

CGCC recognizes and honors the sacrifices of all those who have served our country in the U.S. Armed Forces. The Veterans Services

Office is located in Coyote Center at the Pecos Campus and in Bluford Hall at the Williams Campus, and provides the following services:

- GI Bill benefits counseling and processing
- Referrals for personal, career, academic counseling, enrollment services, and financial aid
- Assistance with family and transition support
- Student Veterans Organization (SVO)

Students applying for veterans benefits for the first time should allow four to six weeks before receiving benefits. The amount of benefits awarded is based on the number of credit hours attending and chapter of benefits. Those students receiving benefits must be following the Veterans Administration (VA) academic progress policy to continue to receive benefits.

Veterans chapters served:

- Chapter 30 Montgomery Gl Bill
- Chapter 31 Vocational Rehabilitation (separately served through local VA Vocational Rehabilitation offices)
- Chapter 33 Post 9/11 GI Bill
- Chapter 35 Survivors and Dependents of Deceased/100% Disabled Veterans
- Chapter 1606 Selected Reserve GI Bill

For additional information, contact the Veterans Services Office at (480) 726-4122 at the Pecos Campus and (480) 988-8177 at the Williams Campus. Information is also available at www.cgc.maricopa.edu/veterans

APPROVED VA FUNDING

Airway Science Technology, Flight Emphasis (Track I and III)

APPROVED FUNDING FOR VA FLIGHT TRAINING FOR ACADEMIC YEAR 2017-2018

FLIGHT STANDARDS DISTRICT OFFICE (FSDO) APPROVED MINIMUM TIMES PER PART 141 TRAINING COURSE OUTLINES

The following rates and flight hours have been approved for VA funding at the UND Aerospace FTC located at Mesa, AZ. VA will only fund minimum training requirements and students are required to cover additional costs. VA will only cover costs listed for each specific time requirement.

Costs are calculated according to the following hourly rates:

Hourly Rates and Instruction Rates (FY2018 - effective 8/01/2017)					
Aircraft	Rate	FTD	Rate	Instructor	Rate
Cessna 172	\$139.00	Single Engine FTD	\$79.00	Fixed Wing	\$59.00
Arrow	\$189.00	Multi Engine FTD	\$99.00		
Seminole	\$275.00	Mentor FTD	\$30.00		

FSDO approved minimum times per part 141 training course outlines.

The above estimates represent minimum flight hours to meet Federal Aviation Administration requirements. Students may need additional flight hours to demonstrate competency.

COMMERCIAL INSTRUMENT PILOT AIRPLANE SINGLE AND MULTI-ENGINE LAND (SMEL) COURSE (PART 141)

This course is made up of three individual flight courses. The total flight time requirement is 155 hours of the combined courses. It is imperative that you meet each course requirement to satisfy the total time requirement.

AET210 - Instrument Commercial Flight I	50.0
AET220 - Instrument Commercial Flight II	68.5
AET240 - Multi-Engine Airplane Pilot Flight	36.5
	155.0

AET210 - Instrument Commercial Flight I (Lessons 1-35)		\$11,147.50
Solo C172	20.0	\$2,780.00
Dual C172	25.5	\$3,544.50
Dual SE FTD	14.0	\$1,106.00
Dual Instruction	39.5	\$2,330.50
Pre/Post & Ground Instruction	23.5	\$1,386.50
AET220 - Instrument Commercial Flight II (Lesson	\$14,163.30	
Solo C172	12.3	\$1,709.70
Dual C172	44.2	\$6,143.80
Dual SE FTD	14.0	\$1,106.00
Dual Instruction	58.2	\$3,433.80
Pre/Post & Ground Instruction	30.0	\$1,770.00
AET240 - MultI-Engine Systems & Proc (Lessons	\$7,681.50	
Dual Seminole	15.0	\$4,125.00
Dual ME FTD	10.0	\$999.00
Dual Instruction	25.0	\$1,475.50
Pre/Post & Ground Instruction	18.5	\$1,091.50

AET230 - Certified Flight Instructor: Airplane, Single Engine Land (Part 141)			
CFI Certification		\$7,300.00	
Dual C172		23.0	\$3,197.00
Dual Arrow		1.0	\$189.00
Dual SE FTD		1.0	\$79.00
Dual Instruction		25.0	\$1,475.00
Pre/Post & Ground Instruction		40.0	\$2,360.00
		Totals	\$ 40,292.30

2017-2018 PROJECTED INDIVIDUAL FLIGHT TRAINING COSTS

These are the projected costs for flight courses for the 2017-2018 school year based on anticipated rates (*). Course costs are based on the average number of hours it takes a student to complete the course, and may vary from student to student according to their capability and motivation. Financial aid may be available to assist with these costs, but applying for aid must be done well in advance. Flight costs are in addition to tuition.

PRIVATE PILOT

AET110 - Private Pilot Certification		\$12,527.00
Instructor Time	83 hrs	
S.E. Simulator	3 hrs	
Cessna 172	52 hrs	
FAA Written••		

INSTRUMENT, COMMERCIAL AND MULTI-ENGINE

AET210 - Instrument Commercial Flight I (Lessons 1-35)		\$11,431.00
Instructor Time	70 hrs	
S.E. Simulator	15 hrs	
Cessna 172	44 hrs	

AET220 - Instrument Commercial Flight II (Lessons 36-68)		\$13,584.00
Instructor Time	82 hrs	
S.E. Simulator	8 hrs	
Cessna 172	56 hrs	
FAA Written**	(2)	

AET240 - Multi-Engine Systems & Procedures (Lessons 69-94)		\$11,700.00
Instructor Time	65 hrs	
M.E. Simulator	10 hrs	
Seminole	25 hrs	

FLIGHT INSTRUCTOR

AET230 - Certified Flight Instructor Certification		\$8,068.00
Instructor Time	65 hrs	
Cessna 172	24 hrs	
Piper Arrow	3 hrs	
FAA Written••	(2)	

AET270 - Certified Flight Instructor Instrument		\$6,034.00
Instructor Time	50 hrs	
Cessna 172	21 hrs	
FAA Written••	(1)	

For the most current information regarding course descriptions, log on to $\underline{www.maricopa.edu/academic/ccta}.$

Associate Degree program total flight cost: \$57,310.00.

•Does not include AET 270 CFII.

**FAA written price of \$165 is included in the budgeted total for each applicable course.

Airway Science Technology, Flight Emphasis (Track II) Helicopter

Course	Course/Materials	Lab Fees-Fixed	Included Books & Materials
AET 210HH Commercial Pilot Flight Lab I (Instrument): Helicopter	Flight Time: 75 hours (75 dual IFR) Individual Ground Training: 42 hours	\$ 28,000.00	* IFR Pilot Manual * Part 141 Instrument Rating Syllabus * Practical Test Standards-IFR * Test Prep-IFR * Oral Test Guide-IFR * PV-5 IFR Plotter * GNS 430 Simulator CD
Course	Course/Materials	Lab Fees-Fixed	Included Books & Materials
AET 220HH Commercial Pilot Flight Lab II: Helicopter	Flight Time: 85 hours (55 dual VFR, 20 advanced dual VFR, 10 solo) Individual Ground Training: 39 hours	\$ 28,300.00	* Test Prep-Commercial * Practical Test Standards-Commercial/CFI * Commercial Syllabus * Oral Test Guide- Commercial
Course	Course/Materials	Lab Fees-Fixed	Included Books & Materials
AET 230HH Certified Flight Insructor Lab: Helicopter	Flight Time: 75 hours (50 dual VFR, 25 dual IFR) Individual Ground Training: 67 hours	\$ 28,500.00	* Aviation Instructors Handbook * Part 141 CFI Syllabus * Test Prep-CFI * Oral Test Guide-CFI

Program Total:

\$84,800.00

Note: Prerequisite AET 110HH Private Pilot course is not covered by GI Bill benefits and is not included in program total. Cost basis for all semesters includes: Written, oral and flight tessting required for issuance of the certificate or rating that is applicable to the course.

Not Included: Costs associated with any re-testing necessary in the event of a failed FAA written, oral, or flight test. Medical exam, aviation kneeboard, and optional flight bag. Revisions to books and materials.

Costs are calculated according to the following hourly rates (tax = 7.8%):

Dual VFR	\$295.00/hour
Dual IFR	\$310.00/hour
Solo	\$250.00/hour plus tax
Ground Instruction	\$49.00/hour
Pre/Post Flight Instruction	\$49.00/hour
Checkride rental VFR	\$250.00/hour plus tax
Checkride rental IFR	\$280.00/hour plus tax

The estimates represent minimum flight hours to meet Federal Aviation Administration requirements. Students may need additional flight hours to demonstrate competency.



MARICOPA COUNTY COMMUNITY COLLEGE DISTRICT COMMON POLICIES

MARICOPA COUNTY COMMUNITY COLLEGE DISTRICT COMMON POLICIES

The Administrative Regulations are 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 by number, which corresponds with the regulations on the MCCCD website.

Some regulations include reference to Arizona Revised Statutes from the State of Arizona and are noted as "ARS" followed by a reference number.

For printed copies of the regulations for the calendar year you were first admitted and enrolled, visit the Library or Enrollment Services area on your campus or visit www.cgc.edu/catalog for the corresponding student handbook and catalog year as well as visit the Administrative Regulations and Appendix (Common Pages) items specifically relevant to students.

Student Handbook

2.5.4 Student Employment

2.5.5 Student Governance

Appendix S-12 The Maricopa Community Colleges Allied Health or Nursing Program

4.18 Consensual Relationships

Admissions, Registration and Enrollment

2.1 General Regulation

2.2.1 Admission Policy

2.2.2 Admission Information

2.2.3 Other Admission Information

2.2.4 Credit for Prior Learning

2.2.6 Academic Advising

2.2.7 Student Assessment and Course Placement

2.2.8 Registration

2.2.9 Tuition and Fee Schedule

2.2.10 Refund Policy

2.2.11 Student Financial Assistance

2.2.12 Vaccinations

Appendix S-5 Student Financial Assistance

2.9 Veterans Services

Scholastic Standards

2.3.1 Academic Load

2.3.2 Attendance

2.3.3. Grading

Appendix S-12 Important Deadline for Students

2.3.4 Academic Probation (Progress)

2.3.5 Instructional Grievance Process

Appendix S-6 Instructional Grievance Process

2.3.12 Non-Instructional Complaint Resolution

Process

Appendix S-8 Non-Instructional Complaint

Resolution Process

2.3.6 Withdrawl

Appendix S-7 Withdrawl Procedures

2.3.7 Academic Renewal

2.3.8 Honors Program

2.3.9 General Graduation Requirements

2.2.5 Catalog under which a student graduates

2.3.10 Transcripts for Transfer

College Environment

2.4.4. (See also 5.1.8) Sexual Harassment Policy for Employees and Students

5.1.9 Examples of Policy Violations

5.1.10 Additional Policy Violations

5.1.11 Responsibilty for Policy Enforcement

5.1.12 Complaints

5.1.13 Confidentiality

5.1.14 Violations of Law

5.1.15 False Statements Prohibited

5.1.16 Retaliation Prohibited

<u>Discrimination Complaint Procedures for Students</u>

2.4.6 Emissions Control Compliance

2.4.8 Petition Signature Compliance

2.4.9 Use of College Grounds by Non-MCCCD
Affiliated Users

2.4.10 Children on Campus

2.4.11 Crime Awareness and Campus Security
Act

2.4.12 Workplace Violence Prevention

2.4.12 Student Right to Know

Student Rights and Responsibilites

2.4.5 Copyright Act Compliance

3.2 Copyright Regulation

3.4 Taping of Faculty Lectures

<u>4.4 Technology Resource Standards</u>

2.6 Hazing Prevention Regulation

2.4.7 Abuse-Free Environment

4.13 Alcoholic Beverage Usage Regulation

4.12 Smoke Free/Tobacco Free Environment

Appendix S-16 Statement on the Arizona Medical Marijuana Act (Proposition 203)

2.8.1 Eligibility for Accomodations and Required Disability Documentation

2.8.2 Eligibility of Students taking a reduced course load

2.8.3 Technology Accessibility

2.3.11 Academic Misconduct

Disciplinary Standards

2.5.1 Disciplinary Standards

2.5.2 Student Conduct Code

2.5.3 Student Records

Appendix S-17 FERPA Appeal Process

4.6 Weapons Policy

Vision

Vision, Mission & Values



DEGREE REQUIREMENTS

GRADUATION/GENERAL EDUCATION POLICIES FOR MARICOPA COMMUNITY COLLEGES

General Graduation Requirements (AR 2.3.9)

All students are required to complete the degree and/or certificate requirements as approved by the MCCCD Governing Board. The college reserves the right to make necessary course and program changes in order to meet current educational standards. In addition, students must:

- 1. Be credited in the Admissions and Records Office/Office of Student Enrollment with not fewer than: 60 semester credit units in courses numbered 100 or above for the Associate in Arts degree, Associate in Science 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. 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. 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. 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 areas are excluded; Shared Programs are programs offered at multiple colleges but not available at all colleges. 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. 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.
- 3. Have filed an application for the degree or certificate with the Admissions and Records Office/ Office of Student Enrollment Services on the date determined by the college/center. The exception is the Nursing program. 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 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 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.

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 AZ Transfer, 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

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

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

EXAMPLE A:

Admitted & Earned Course Credit at a

Public Community College or University Fall '05 (Active)

Continued at a Public Community College......Spring '06, Fall '06 (Active)

Transferred to a University Spring '07 (2005 or Any Subsequent Catalog)

EXAMPLE B:

Admitted & Earned Course Credit at a

Public Community College or University Fall '02 (Active)

Enrolled But Earned All Ws, Zs, or Fs......Spring '03 (Inactive)

Enrolled in Audit Courses Only......Fall '03 (Inactive)

NonattendanceSpring '04 (Inactive)

Transferred to a University Fall '04 (2004 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 UniversityFall '02 (Active)

Nonattendance Spring '03, Fall '03, Spring '04 (Inactive)

Readmitted & Earned Course Credit at a

Public Community CollegeFall 04 (Active)

Transferred to a University Spring 05 (2004 or Any Subsequent Catalog)

EXAMPLE B:

Admitted & Earned Course Credit at a Public

Community College or University Fall '02 (Active)

Nonattendance Spring '03 (Inactive)

Readmitted & Earned Course Credit at a

Public Community CollegeSummer '03 (Active)

NonattendanceFall '03, Spring '04 (Inactive)

Transferred to a University Fall '04 (2002 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:

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.

*NOTE: Time Limit for Transfer Coursework

Students should be aware that the receiving institution may have age and credit limits on certain coursework to be used in transfer. Students should be knowledgeable about the policies on timelimits for transfer coursework for the institution to which they plan to transfer.

Maricopa Community Colleges (MCCCD) 2017-2018, Arizona General Education Curriculum (AGEC) - A, B, S

DESCRIPTION

The Maricopa County Community College District Arizona General Education Curriculum (MCCCD AGEC) is a 35-38 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. Generally, the MCCCD AGEC transfers as a block without loss of credit.

In most cases, all courses used to satisfy the MCCCD AGEC will apply to graduation requirements of the university major for which the AGEC was designed.

There are three types of AGECs in MCCCD. They are the AGEC-A, the AGEC-B, and the AGEC-S. As described below, these AGECs are also a component of most MCCCD Associate degrees and comparable degrees at other Arizona public community colleges. The AGEC-A is the general education block of the five different MCCCD Associate in Arts (AA) degrees, the AGEC-B is part of the two MCCCD Associate in Business (ABUS) degrees, and the AGEC-S defines the general education requirements in MCCCD Associate in Science (AS) degree.

As described in more detail below, all AGECs require designated Core courses in First Year Composition [FYC], Literacy and Critical Inquiry [L], Mathematical Studies [MA/CS] (Exception: The AGEC-S does not require CS.), Social-Behavioral Sciences [SB], Humanities, Design and Fine Arts [HU], and Natural Science [SQ/SG]. Students must satisfy two Awareness areas: Cultural Diversity in U.S. and either Global Awareness or Historical Awareness.

PURPOSE OF THE AGECS

AGECs were designed to articulate with different academic majors, and their particular requirements vary accordingly. In some majors, students are allowed to choose from a broad list of courses to satisfy the AGEC requirements; for others the courses are more restricted or even specified. Additional information on academic majors at the Arizona public universities can be accessed via the following website: www.aztransfer.com

- 1. The AGEC-A is designed to satisfy requirements in many liberal arts majors as well as other majors that articulate with an Associate in Arts degree (e.g., social sciences, fine arts, humanities, elementary education). AGEC-A requires a minimum of college mathematics or college algebra to satisfy the Mathematics [MA] requirement.
- 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 such as many in the sciences, technology, engineering and mathematics. 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 for majors to satisfy the Natural Sciences [SQ/SG] requirement. In addition, students must select six to eight additional credits of math and/ or science appropriate to their major.

ACADEMIC POLICIES THAT GOVERN THE AGEC A, B, S:

- Requires completion of 35-38 credit hours in courses numbered 100 and above and that a minimum of 12 of those credits be taken at one or any combination of the MCCCD colleges.
- All courses applied to the AGEC must be completed with a grade of "C" or better.
- A single course can simultaneously count toward a Core Area and one or more Awareness
 Areas. For example, a course in world geography can be used to satisfy [SB] and [G]
 requirements. While multiple requirements can be met with a single course, the credits for that
 course are only counted one time toward the required minimum total for the AGEC. Except as
 detailed below for the AGEC-S, a single course cannot be used to satisfy more than one AGEC
 Core Area.
- The General Education Requirements for these certificates may be completed in as few as 35 credits provided that courses selected for the Awareness Areas can also be counted toward Core Areas.

TRANSFER CREDITS

- Credits transferred from outside of MCCCD must at a grade of "C" (2.0 on a 4.0 scale) or better.
- Transfer credit graded pass/fail or pass/no credit may be used to satisfy AGEC requirements if documentation collected by the community college indicates that this was the only grading option available and that the Pass grade ("P") is equivalent to a "C" or better.
- External courses either with AGEC designations (from an AGEC granting/accepting institution at which they were taken) or evaluated as equivalent to an MCCCD course with one or more AGEC designations may be applied toward the minimum credits for certificate completion. A course evaluation and/or general education designation may be subject to change. The AGEC designations are determined by how they are listed in AZTransfer's Arizona Course Equivalency Guide (CEG) for the semester in which the courses were completed. Given that curriculum is dynamic at both MCCCD and the institutions from or to which MCCCD students transfer, students have the option to petition for exceptions to official course evaluations and/or general education designations.

CREDIT FOR PRIOR LEARNING

• Credit awarded at a Maricopa Community College for prior learning in non-traditional setting

is transferable to the other colleges in the MCCC district but is not necessarily transferable to other colleges and universities. No more than 20 such assessed semester credit hours may be applied toward AGEC.

COMPLETION AND TRANSFER

- Completion of the AGEC with a minimum grade point average of at least 2.0 on a 4.0 scale for Arizona residents and 2.50 for non-residents meets Arizona public university general admission requirements. It does not ensure admission to specific university majors or programs with selective admission processes and/or limited enrollment.
- Students planning to transfer to another college or university are urged to refer to university requirements and academic advisors from both institutions to be certain that all their selected coursework is applicable to the requirements of their intended transfer degree. For some majors, the statewide Common Course matrix, AZTransfer Pathway Guides and/or University Transfer Guides posted on the AZTransfer website can also provide some guidance. For appropriate course selection, students should consult with an academic advisor.

AGEC REQUIREMENTS

The 35-38 semester credits required for each of the three AGECs follow. Descriptions and definitions of each requirement area follow. View specific course information via the following website: https://asa.maricopa.edu/departments/center-for-curriculum-transfer-articulation by clicking on the statewide AGEC link. The lists provided for AGEC-A, -B, -S, and AGEC Matrix identify the courses in alpha-order by prefix as well as the different Core Areas and/or Awareness Areas where each course will apply.

*Note that for students pursuing majors in the Fine Arts (Art, Theatre, Dance) or Elementary Education the required courses for some of the Core and/or Awareness Areas are much more prescriptive. Students in these majors should consult corresponding specialized Associate in Arts degree requirements and/or an academic advisor for guidance in the selection of their general education course work to minimize loss of credits).

.....

AGEC-A REQUIREMENTS

	<u>Credit</u>	<u>S</u>
1. C	ore Areas3	5
	Some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well as their respective Core Area. (See AGEC matrix for current course values.)	
a	. First-Year Composition (FYC)	6
b	. Literacy and Critical Inquiry [L]	3

c. Mathematics [MA] 3-5
Requires a course in college mathematics (MAT140, MAT141, 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.)
d. Computer/Statistics/Quantitative Applications [CS]3
e. Humanities, Arts and Design [HU]6
Students are encouraged to choose course work from more than one discipline.
f. Social-Behavioral Sciences [SB]6
Students are encouraged to choose course work from more than one discipline.
g. Natural Sciences [SQ/SG]8
The lecture course(s) selected for Natural Sciences must include or be accompanied
by the corresponding laboratory course for a total of 4 credits each. Credits for lecture
and lab components may be combined or each may carry separate credit.
At least four (4) credits must be designated as SQ. Eight (8) credits of SG will not satisfy this requirement.
2. Awareness Areas:0-6
Some courses may be used to satisfy both a Core Area and one or more Awareness Area(s). (See AGEC matrix for current course values.)
a. Cultural Diversity in the United States [C]
b. Global Awareness [G] OR Historical Awareness [H]
•••••••••••••••••••••••••••••••
AGEC-B REQUIREMENTS
Credits
1. Core Areas:35
Some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well as their respective Core Area(s). (See AGEC matrix for current course values.)
a. First-Year Composition (FYC)6
b. Literacy and Critical Inquiry [L]3
c. Mathematics [MA]
Requires a course in brief calculus (MAT212) or a higher level mathematics course such as MAT220, or MAT221 or any course for which these courses are prerequisites.

d. C	Computer/Statistics/Quantitative Applications [CS]3
e. H	Humanities, Arts and Design [HU]6
S	students are encouraged to choose course work from more than one discipline.
f. S	ocial-Behavioral Sciences [SB]6
S	students are encouraged to choose course work from more than one discipline.
g. N	Natural Sciences [SQ/SG]8
Т	The lecture course(s) selected for Natural Sciences must include or be accompanied
b	by the corresponding laboratory course for a total of 4 credits each. Credits for lecture
a	and lab components may be combined or each may carry separate credit.
P	At least four (4) credits must be designated as SQ. Eight (8) credits of SG will not
S	atisfy this requirement.
2. Awareness	5 Areas:0-6
Some cou	rses may be used to satisfy both a Core Area and one or more Awareness Area(s).
(See <u>AGEC</u>	<u>C matrix</u> for current course values.)
a. C	Cultural Diversity in the United States [C]0-3
b. 6	Global Awareness [G] OR Historical Awareness [H] 0-3
•••••	•••••••••••••••••••••••••
AGEC-S R	EQUIREMENTS
	Credits
1. Core Areas	s:35
Some of t [C], [G] an	hese courses also have Awareness Areas designations and can be used to satisfy d/or [H] requirement(s) as well as their respective Core Area(s). (See AGEC matrix for burse values.)
a. F	irst-Year Composition (FYC)6
b. L	iteracy and Critical Inquiry [L]3
c	Students are strongly encouraged to choose an [L] course that also has [HU] or [SB] designation It may also have been approved to satisfy one or more Awareness Areas [C], [G], [H]). (See AGEC matrix for current course values.)
c. N	Mathematics [MA]3-5
(Requires the first semester of calculus courses designed for scientists and engineers MAT220 or MAT221) or any other [MA] designated course for which Calculus I is a preequisite.
d. H	Humanities, Arts and Design [HU]6

satisfy both Areas. (See AGEC matrix for current course values.)	
e. Social-Behavioral Sciences [SB]	. 6
For the AGEC-S, a single course with both [SB] and [L] designations may satisfy both Areas. (See AGEC matrix for current course values.)	
g. Natural Sciences [SQ/SG]	. 8
Students must complete eight (8) credits of General Chemistry, University Physics or General Biology for Majors. Consult specific requirements of university transfer major for guidance.	r
 (CHM150 or CHM151) & CHM151LL General Chemistry I and 	
 CHM152 & CHM152LL General Chemistry II OR 	
 PHY115 & PHY116 University Physics I and II OR 	
 PHY121 & PHY131 University Physics I: Mechanics and II: Electricity and Magnetism OR 	
 BIO181 & BIO182 General Biology (Majors) I and II 	
h. Subject Options (Subject based on major)6	-8
Use a transfer guide to select six (6)-ten (10) additional math and/or science credits that meet requirements for selected major.	
 Mathematics course(s) [MAT] above Calculus I and/or 	
 Computer Science course(s) [CSC] and/or 	
 Science course(s) from the following disciplines: Astronomy, Biology, Botany, Chemistry, Engineering, Environmental Science, Geology, Physical Geography, Physics, Zoology (MCCCD prefixes AST, BIO, CHM, EEE, ECE, EN' GLG, GPH, and/or PHY) 	
2. Awareness Areas:0	1-6
Some courses may be used to satisfy both a Core Area and one or more Awareness Area(s).	
(See <u>AGEC matrix</u> for current course values.)	
a. Cultural Diversity in the United States [C]0)-3
b. Global Awareness [G] OR Historical Awareness [H] 0)-3
	•

AGEC-AREA REQUIREMENTS DESCRIPTIONS/DEFINITIONS

First-Year Composition (FYC)

First-Year Composition courses emphasize skills necessary for college-level expository

writing, including correct grammar and punctuation, logical organization of ideas, and identification of supporting documentation.

Literacy and Critical Inquiry [L]

In the [L] course students, typically at the sophomore level, 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 [L] requirement sustains and extends students' ability to thoughtfully use and critically analyze written and/or spoken language.

Mathematical Studies [MA]

The Mathematical Studies requirement is intended to ensure that students have requisite skills in mathematics appropriate for their discipline and can apply mathematical analysis in their chosen fields.

Computer/Statistics/Quantitative Applications [CS]

AGEC-A and AGEC-B require a course that emphasizes the use of statistics, other mathematical methods, computer programming languages and/or software in the interpretation of data and in describing and analyzing quantitative relationships.

Humanities, Arts and Design [HU]

The study of the humanities and the disciplines of art and design deepen awareness of the complexities of the human condition and its diverse histories and cultures. Courses in the humanities are devoted to the production of human thought and imagination, particularly in philosophical, historical, religious and artistic traditions. Courses with an emphasis in fine arts and design are devoted to the study of aesthetic experiences and the processes of artistic creation. They may also feature a design emphasis in which material culture is studied as a product of human thought and imagination.

Social-Behavioral Sciences [SB]

The Social-Behavioral Sciences Core area provides scientific methods of inquiry and empirical knowledge about human behavior, both within society and within individuals. This area of emphasis in general education curriculum may include study of such disciplines as anthropology, economics, history, political science, psychology, or sociology. The courses in this area address the challenge of understanding the diverse natures of individuals and cultural groups who live together in a complex and evolving world.

Natural Sciences [SQ/SG]

In addition to an understanding of basic scientific principles and concepts, courses

in the Natural Sciences Core area are designed to help students appreciate, from firsthand laboratory and/or field research experience, the nature of science as a process that embraces curiosity, inquiry, testing, and communication to better understand natural phenomena. At least one of the two natural science courses must include an introduction to the fundamental behavior of matter and energy in physical or biological systems.

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 one. Awareness of cultural diversity and its multiple sources can illuminate the collective past, present, and future and can help to foster greater mutual understanding and respect.

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

Global Awareness [G]

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

other than the culture of the United States. The Global Awareness Area includes courses that recognize the nature of other contemporary cultures and the relationship of the American cultural system to generic human goals and welfare.

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

- 1. Area studies that are concerned with an examination of culture-specific elements of a region of the world;
- 2. The study of a non-English language;
- 3. Studies of international relationships, particularly those in which cultural change is facilitated by such factors as social and economic development, education, and the transfer of technology; and
- 4. Studies of cultural interrelationships of global scope such as the global interdependence produced by problems of world ecology.

Historical Awareness [H]

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

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

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

Cradita

Maricopa Community Colleges (MCCCD) 2017-2018, Associate in Arts (AA) Degree

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. Generally, the degree will transfer as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements.

In most cases, courses used to satisfy the MCCCD Associate in Arts will apply to general university graduation requirements of the majors that align with the Associate in Arts degree; however, students need to be aware of any specific requirements of their intended major at the university to be sure they select courses that will meet them. Information regarding the articulation of the Associate in Arts with majors at the Arizona public universities can be accessed via the following website: www.aztransfer.com

DEGREE REQUIREMENTS

The 60-64 semester credits required for the Associate in Arts follow. The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGEC-A and the AGEC matrix. Courses available for both Areas during a current or upcoming semester can also be found using the "Find A Class" tool on each MCCCD college's website.

	<u>C. Carts</u>
MCCCD General Education	35-47
A. AGEC-A	35-41
1. Core Areas	35

^{*}Note that some of these courses also have Awareness Areas designations and can be used to satisfy

[C], [G] and/or [H] requirement(s) as well as their respective Core Area. (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.))
a. First-Year Composition (FYC)	6
ENG101 OR ENG107 AND	
ENG102 OR ENG108	
b. Literacy and Critical Inquiry [L]	3
c. Mathematics [MA]	3
Requires a course in college mathematics (MAT140, MAT141, MAT142) or college algebra (MAT150, MAT151, MAT152) or pre calculus (MAT187) or any other [MA] designated course for which college algebra is a pre-requisite.	
d. Computer/Statistics/Quantitative Applications [CS]	3
e. Humanities, Arts and Design [HU]	6
Students are encouraged to choose course work from more than one discipline	
f. Social-Behavioral Sciences [SB]	6
Students are encouraged to choose course work from more than one discipline	
g. Natural Sciences [SQ/SG]	8
The lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course for a total of 4 credits each. Credits for lecture and lab components may be combined or each may carry separate credit. At least four (4) credits must be designated as SQ. Eight (8) credits of SG will not satisfy this requirement.	9
2. Awareness Areas:0-	-6
Some courses may be used to satisfy both a Core Area and one or more Awareness Area(s).	
(See <u>AGEC matrix</u> for current course values.)	
a. Cultural Diversity in the United States [C]0-	-3
b. Global Awareness [G] OR Historical Awareness [H]0-	-3
MCCCD Additional Requirements0-	6
As noted below, courses in this area may also be applied towards AGEC-A Core Area requirements.	
1. Oral Communication0-	3
COM100 [SB] Introduction to Human Communication OR	
COM110 [SB] Interpersonal Communication OR	
COM225 [L] Public Speaking OR	
 COM230 [SB] Small Group Communication (3 credits) OR 	

- COM100AA & COM100AB & COM100AC [SB] (3 credits) OR
- COM110AA & COM110AB & COM110AC [SB] (3 credits)

2.	Critical Reading	. 0-3
	Students may demonstrate proficiency through assessment.	
	CRE101 [L] Critical Reading OR equivalent as indicated by assessment	
II.	General Electives	3-29

Select courses 100-level or higher to complete a minimum of 60 semester credits but no more than a total of 64 semester credits. Ideally students should select courses that meet requirements for their major/area of interest and transfer institution. See General Associate Degree Academic Policies for further details, limitations and guidelines.

Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives (e.g., HISELC for a history elective), or general electives (GENELC) that are numbered 100 level or higher, and completed with a grade of "C" or higher, may be applied in the elective area, regardless of potential transferability to other institutions. It is recommended, however, that students planning to transfer to a baccalaureate-granting institution meet these general elective requirements with courses that are transferable and applicable to their intended university degree. Transfer and major guides are accessible on the following websites: aztransfer.com, maricopa.edu/transfer/partners, as well as those of individual universities. For appropriate course selection, students should consult with an advisor.

ASSOCIATE IN ARTS TOTAL CREDITS: 60-64

Maricopa Community Colleges (MCCCD) 2017-1018, Associate in Arts, Elementary Education Degree (AAEE)

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. General Education:

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

II. Elemenary Education Requirements:

Education Foundations
Restricted Electives

PURPOSE OF THE DEGREE

The AAEE is designed for the student who plans to transfer to an Elementary Education, Early Childhood, Multicultural/Multilingual, or Special Education program at an Arizona public higher education institution and/or who plans to become a classroom instructional aide. Generally, the degree transfers as a block without loss of credit to Arizona's public universities, and in most cases, its required courses apply to graduation requirements for these Education majors.

DEGREE REQUIREMENTS

DEGREE REGOTREMENTS	<u>Credits</u>
. MCCCD General Education	35-41
A. AGEC-A	35-38
1. Core Areas	35
a. First-Year Composition (FYC)• ENG101 OR ENG107 AND• ENG102 OR ENG108	6
b. Literacy and Critical Inquiry [L]COM225 Public Speaking	3
c. Mathematics [MA]) or college other [MA]

d.	Со	mputer/Statistics/Quantitative Applications [CS]3
	•	BPC110 Computer Usage and Applications OR
	•	CIS105 Survey of Computer Information Systems
e.	Hu	manities, Arts and Design [HU]6
	and	ote that some of these courses also have Awareness Areas designations (see section 2 below) down the can be used to satisfy [G] and/or [H] requirement as well as [HU]. (AGEC designations are bject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)
	1) :	Select one of the following ARH, DAH, MHL or THE courses:
		ARH100 Introduction to Art OR
		ARH101 Prehistoric through Gothic Art OR
	•	ARH102 Renaissance through Contemporary Art OR
	•	DAH100 Introduction to Dance OR
	•	DAH201 World Dance Studies OR
	•	DAH250 Dance in Popular Culture OR
	•	MHL140 Survey of Music History OR
	•	MHL145 American Jazz and Popular Music OR
	•	MHL146 Survey of Broadway Musicals OR
	•	MHL153 Rock Music and Culture OR
	•	THE111 Introduction to Theatre OR
	•	THE220 Modern Drama
	ΑN	D
	2) 9	Select one of the following EDU, ENH or HUM courses:
	•	EDU/ENH291 Children's Literature OR
	•	ENH110 Introduction to Literature OR
	•	ENH241 American Literature Before 1860 OR
	•	ENH242 American Literature After 1860 OR
	•	HUM250 OR
	•	HUM251 Ideas and Values in the Humanities
f.	So	cial-Behavioral Sciences [SB]6
	bel	ote: that some of these courses also have Awareness Areas designations (see section 2 ow) and can be used to satisfy [G] and/or [H] requirement as well as [SB]. (AGEC designations subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)

- 1) Select one of the following US History/Government courses: These courses satisfy the United States Constitution requirement for state teacher certification.
- HIS103 United States History to 1865 OR
- POS110 American National Government OR
- GCU/POS113 (GCU/POS227 if taken prior to Fall 2016 United States and Arizona Social Studies

AND

- 2) Select one of the following CFS, ECH, GCU, ECN, HIS or PSY courses
- CFS205 Human Development OR
- ECH/CFS176 Child Development OR
- GCU121 World Geography I: Eastern Hemisphere OR
- GCU122 World Geography II: Western Hemisphere OR
- ECN211 Macroeconomic Principles OR
- ECN212 Microeconomic Principles OR
- HIS104 United States History 1865 to Present OR
- PSY101 Introduction to Psychology
- g. Natural Sciences [SQ]/[SG]8

 The lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course for a total of 4 credits each. At least four (4) credits must be designated as SQ. Eight (8) credits of SG will not satisfy this requirement.
 - 1) Life Sciences: Select four (4) credits of SQ or SG in Biology (BIO)

 AND
 - 2) Physical Sciences or Earth/Space Sciences: Select four (4) credits of SQ or SG from one of the following prefixes: AGS, ASM, AST, CHM, GPH, GLG, PHS, or PHY
 - *Note: Students are advised to check with the university they plan to attend as specific requirements for lab sciences may vary.

Μ	CCCD Additional Requirements)-3
	1. Oral Communication	0
	Met by COM225 required as part of AGEC Core. No additional coursework required.	
	2. Critical Reading	ე-3
	Students may demonstrate proficiency through assessment.	
	CRE101 Critical Reading OR equivalent as indicated by assessment	
II.	Elementary Education Requirements	25
A.	Education Foundations	17
	Complete all of the following:	
	EDU221 Introduction to Education	
	EDU222 Introduction to the Exceptional Learner	
	EDU230 Cultural Diversity in Education	
	 MAT256 Investigating Quantity: Number, Operations and Numeration Systems 	
	 MAT257 Investigating Geometry, Probability and Statistics 	
B.	Electives for Arizona Professional Teacher Standards8	
	cal of 8 semester credits are required to satisfy the Electives for Arizona Professional Teach dards: 3 credits in an additional Education course and 5 credits in Content Area Electives.	
or Ed	rses must transfer to all public Arizona universities as Elective Credit, Departmental Electiquivalent to a university course as indicated in the Arizona Course Equivalency Guide in the when the course is taken. Courses identified as Non-transferable in the Arizona Course valency Guide cannot be used to satisfy this requirement.	
	1. Additional Education Course Requirement3	
	Select any EDU course(s) (except EDU221, EDU222, EDU230 and EDU250) to satistilities requirement.	ify
	2. Content Area Electives5	
or Ec	rses must transfer to all public Arizona universities as Elective Credit, Departmental Electiquivalent to a university course as indicated in the Arizona Course Equivalency Guide in the when the course is taken. Courses identified as Non-transferable in the Arizona Course valency Guide cannot be used to satisfy this requirement.	ve,

Choose any combination from the following list of courses and prefixes to total five (5) credits of additional coursework. Course(s) selected must be different from those counted toward

AGEC-A or Education Foundations requirements.

See note below regarding Arizona Constitution requirement for state certification.

Any ARH, ART, CIS, ECN, BPC, ENG, ENH, GCU, GPH, HIS, MHL, MTC, POS, THF, THE, THP prefixed course(s)

- Any EDU course(s) (except EDU221, EDU222, EDU230 and EDU250)
- Any MAT (courses numbered higher than 142 except MAT256 and MAT257)
- Any Foreign Language course(s)
- Any Natural Science course(s)
- CFS/ECH176 Child Development
- CFS205 Human Development
- EED215 Early Learning: Heath, Safety, Nutrition and Fitness
- AAA/CPD115 Creating College Success

ASSOCIATE IN ARTS ELEMENTARY EDUCATION TOTAL CREDITS: 60-66

*Note: State certification requirements include courses on the constitutions of US and Arizona. Taking GCU/POS113 for [SB] fulfills this requirement completely. Students who instead take HIS103 or POS110 for [SB] may want to consider taking POS221 as a Content Area Elective so they have completed study of both constitutions. POS220 meets state certification requirements for both constitutions but does not meet [SB].

Cradita

Maricopa Community Colleges (MCCCD) 2017-1018, Associate in Arts, Fine Arts (AAFA) -Art

DESCRIPTION

The Maricopa County Community College District Associate in Arts, Fine Arts – Art (AAFA-Art) degree requires a minimum of 60 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 (AAFA-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.

In most cases, courses used to satisfy the MCCCD Associate in Arts, Fine Arts – Art will apply to general university graduation requirements of the majors that align with AAFA-Art degree; however, students need to be aware of any specific requirements of their intended focus at the university to be sure they select courses that will meet them. Information regarding the articulation of the AAFA-Art degree with majors at the Arizona public universities can be accessed via the following website: www.aztransfer.com

DEGREE REQUIREMENTS

The 60-69 semester credits required for the Associate in Arts, Fine Arts - Art degree follow. The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGEC-A and the AGEC Matrix. Courses available for both Areas during an upcoming semester can also be found using the "Find A Class" website at each MCCCD college.

		<u>Credits</u>
l.	MCCCD General Education	35-44
	A. AGEC - A	35-38
	1. Core Areas	35

*Note: that some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well as their respective Core Area. (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)

	a.	First-Year Composition (FYC)	6
		ENG101 OR ENG107 AND	
		• ENG102 OR ENG108	
	b.	Literacy and Critical Inquiry [L]	3
	c.	Mathematics [MA]	3
		Requires a course in college mathematics (MAT140, MAT141, MAT142) or college algebra (MAT150, MAT151, MAT152) or pre-calculus (MAT187) or any other [MA] designated course for which college algebra is a pre-requisite.	
	d.	Computer/Statistics/Quantitative Applications [CS]	3
	e.	Humanities, Arts and Design [HU]	6
		ARH101 [H] Prehistoric Through Gothic Art AND	
		ARH102 [H] Renaissance Through Contemporary Art	
	f.	Social-Behavioral Sciences [SB]	6
		Students are encouraged to choose course work from more than one discipline.	
	g.	Natural Sciences [SQ/SG]	8
		The lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course for a total of 4 credits each. Credits for lectuand lab components may be combined or each may carry separate credit.	re
		At least four (4) credits must be designated as SQ. Eight (8) credits of SG will not satisfied this requirement.	fy
2.	Α۱	wareness AreasC)-6
	a.	Cultural Diversity in the United States [C])-3
		May be met by [HU] or [SB] course depending on specific courses selected. (See AGE matrix for current course values.)	.C
	b.	Global Awareness [G] OR Historical Awareness [H]	0
		Met by ARH101 and ARH102 required as part of AGEC-Core. No additional coursework required.	ʻk
	c.	Mathematics [MA]	3
M	CC	CD Additional RequirementsC)-6
		As noted below, courses in this area may also be applied towards AGEC-A Core Area requirements.	

1. Oral Communication0
Met by COM225 required as part of AGEC Core. No additional coursework required.
 COM100 [SB] Introduction to Human Communication OR
COM110 [SB] Interpersonal Communication OR
COM225 [L] Public Speaking OR
 COM230 [SB] Small Group Communication (3 credits) OR
 COM100AA & COM100AB & COM100AC [SB] (3 credits) OR
 COM110AA & COM110AB & COM110AC [SB] (3 credits)
2. Critical Reading0-3
Students may demonstrate proficiency through assessment.
 CRE101 Critical Reading OR equivalent as indicated by assessment
II. Fine Arts Requirements – Art25
1. Fine Art Foundations13
Complete all of the following:
ART111 Drawing I
ART112 Two-Dimensional Design
ART113 Color
ART115 Three-Dimensional Design
ART255AB The Portfolio
2. Fine Art Electives12
Choose any combination from the following list of courses totaling a minimum of twelve
(12) credits of additional coursework.
ART116 Life Drawing I
ART122 Drawing and Composition II
ART131 Photography I
ART151 Sculpture I
ART161 Ceramics I
ART165 Watercolor Painting I

ASSOCIATE IN ARTS, FINE ARTS - ART TOTAL CREDITS: 60-69

ART167 Painting I

ART250 Introduction to Printmaking

Maricopa Community Colleges (MCCCD) 2017-2018, Associate in Arts, Fine Arts (AAFA) -Dance

DESCRIPTION

The Maricopa County Community College District Associate in Arts, Fine Arts - Dance degree requires a minimum of 65 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.

In most cases, courses used to satisfy the MCCCD Associate in Arts, Fine Arts – Dance will apply to general university graduation requirements of the majors that align with AAFA-Dance degree; however, students need to be aware of any specific requirements of their intended focus at the university to be sure they select courses that will meet them. Information regarding the articulation of the AAFA-Dance degree with majors at the Arizona public universities can be accessed via the following website: www.aztransfer.com

DEGREE REQUIREMENTS

The 65-74 semester credits required for the Associate in Arts, Fine Arts - Dance degree follow. The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGEC-A and the AGEC Matrix. Courses available for both Areas during a current or upcoming semester can also be found using the "Find A Class" tool on each MCCCD college's website.

	<u>Credits</u>
MCCCD General Education	35-44
A AGEC-A	35-38

*Note: that some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well as their respective Core Area. (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)

1.	Co	ore Areas	35
	a.	First-Year Composition (FYC)	6
		ENG101 OR ENG107 AND	
		• ENG102 OR ENG108	
	b.	Literacy and Critical Inquiry [L]	3
	c.	Mathematics [MA]	3
		Requires a course in college mathematics (MAT140, MAT141, MAT142) or college algebra (MAT150, MAT151, MAT152) or pre-calculus (MAT187) or any other [MA] designated course for which college algebra is a pre-requisite.	
	d.	Computer/Statistics/Quantitative Applications [CS]	3
	e.	Humanities, Arts and Design [HU]	6
		DAH100 Introduction to Dance	
		AND Any additional Humanities, Art and Design course [HU]	
		The following options are recommended:	
		DAH201 World Dance Studies OR	
		DAH250 [C] Dance in Popular Culture OR	
		DAH255 [C] Hip Hop: Arts, Aesthetic and Culture	
	f.	Social-Behavioral Sciences [SB]	6
	St	udents are encouraged to choose course work from more than one discipline.	
	g.	Natural Sciences [SQ/SG]	8
		The lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course for a total of 4 credits each. Credits for lectuand lab components may be combined or each may carry separate credit. • BIO160 [SG] Introduction to Human Anatomy and Physiology OR	
		BIO201 [SG] Human Anatomy and Physiology I	
		AND	
		Any [SQ] course	
2.		vareness Areas:	
	a.	Cultural Diversity in the United States [C]	.0-3
		May be met by [HU] or [SB] course depending on specific courses selected.	

b. Global Awareness [G] OR Historical Awareness [H]		0-3
MCCC	D Additional Requirements	0-6
As noted below, courses in this area may also be applied towards AGEC-A requirements.		
1. Oral Communication		
Met by COM225 required as part of AGEC Core. No additional coursework required		
•	COM100 [SB] Introduction to Human Communication OR	
•	COM110 [SB] Interpersonal Communication OR	
•	COM225 [L] Public Speaking OR	
•	COM230 [SB] Small Group Communication (3 credits) OR	
•	COM100AA & COM100AB & COM100AC [SB] (3 credits) OR	
•	COM110AA & COM110AB & COM110AC [SB] (3 credits)	
2. Cri	tical Reading	0-3
Stu	idents may demonstrate proficiency through assessment.	
•	CRE101 Critical Reading OR equivalent as indicated by assessment	
II. Fine Arts Re	quirements – Dance	30
Part I: Foundat	ion	12
Complet	e all of the following:	
•	DAN150 Dance Performance I	
•	DAN210 Dance Production I	
•	DAN221 Rhythmic Awareness I	
•	DAN264 Choreography I	
•	DAN280 Dance Practicum	
Part II: Perform	ance Standards	9
	om the following options to complete a minimum of nine semester credits. must attain Level III competency in ballet and modern dance courses:	
Ballet I-IV: (r	maximum of 2 credits each) DAN131 (1), 134 (1), 231 (1), 234 (1)	1-2
Ballet III and	IV [Intensive]: (max of 4 credits each) DAN231AA (2), 234AA (2)	2-4
Ballet Point	e: DAN237 (1)	1
Modern I-IV	: (maximum of 2 credits each) DAN132 (1), 135 (1), 232 (1), 235 (1)	1-2
Modern III a	nd IV [Intensive] :(max of 4 credits each) DAN232AA (2), 235AA (2)	2-4

	Jazz I-IV: (maximum of 1 credit each) DAN133 (1), 136 (1), 233 (1)	1
	Jazz III and IV [Intensive]:(max of 2 credits each) DAN233AA (2), 236AA (2)	2
	Dance Conservatory I-III: DAN290++, 291++, 292++ (any)	1-3
2	art III: Restricted Electives	0-3
	Students can choose to complete a combination of up to three credits in Part III and the remaining credits in Part IV; or students can opt to complete all Elective credits in Part IV. No more than three credits may be selected from the following DAN prefixed courses:	
	Hip Hop (any) DAN102++, 202++1	each
	Break Dancing: DAN103++, 203++1	each
	Ballroom: DAN104++, 204++1	each
	Swing: DAN105++, 205++1	each
	Latin: DAN106++, 206++1	each
	Country: DAN107++, 207++1	each
	Tango: DAN108++, 208++1	each
	Contemporary: DAN115++1	each
	World: DAN120++1	each
	Social: DAN125++1	each
	Musical Theatre Dance I-IV: DAN129, 130, 229, 2301	each
	Ballet I-IV: DAN131 (1), 134 (1), 231 (1), 234 (1)1	each
	Ballet III and IV [Intensive]: DAN231AA (2), 234AA (2)2	each
	Ballet Pointe: DAN237 (1)1	each
	Modern I-IV: DAN132 (1), 135 (1), 232 (1), 235 (1)1	each
	Modern III and IV [Intensive]: DAN232AA (2), 235AA (2)2	each
	Jazz I-IV: DAN133 (1), 136 (1), 233 (1), 236 (1)1	each
	Jazz III and IV [Intensive] :DAN233AA (2), 236AA (2)2	each
	Tap I-IV: DAN140 (1), 141 (1), 240 (1), 245(1)1	each
	Tan III and IV [Intensive]: DAN233AA (2) 236AA (2)	each

Tap Ensemble: DAN146 (1)		1 each
Improvisation: DAN164		1 each
Dance Workshop: DAN141(1)		1 each
Dance Performance I-IV: DAN15	50, 155, 250, 255	1 each
	nble: DAN/MUP285AA	
Dance Conservatory I-IV: DAN29	90++, DAN291++, DAN292++	1-3 each
·		
Part IV: Restricted Electives: Dance		
Students can choose to comple remaining credits in Part IV; or s DAH classes cannot be used as	ete a combination of up to three (2 students can opt to complete all n an AGEC-A core area requirement	3) credits in Part III and the nine (9) Elective credits in Part IV t and as a Dance Theory Elective
• •	toward designated [G], [H] and/o	
	reers	
J		
	lodern Dance	
	ure	
·	c and Culture	
DAN170 Dance Kinesiology		3
DAN201++Special Topics: Danc	e (any)	1-3
DAN211 Dance Production II		3
DAN222 Rhythmic Awareness II	l	3
DAN238 Dance Seminar II		1
DAN241 Dance Notation I		3
DAN265 Choreography II		3
DAN272 Dance Technology		3
DAN275 Choreography for Film	and Video	3
DAN282++ Service-Learning Ex	operience in Dance (any)	1-3
DAN293 Teaching Dance in Eler	mentary Education	3
DAN294 Teaching Dance in Sec	ondary Education	3

DAN295 Teaching and Management of Studio Dance	3
*DAN296++ Cooperative Education (any)	. 1-4
*DAN298++ Special Projects (any)	. 1-3

ASSOCIATE IN ARTS, FINE ARTS - DANCE TOTAL CREDITS: 65-74

^{*} Selection of DAN296 or 298 courses to satisfy degree requirements should be done inconsultation with a program advisor or faculty member as Special Projects courses do not currently transfer to any of the three Arizona state public universities.

Maricopa Community Colleges (MCCCD) 2017-2018, Associate in Arts, Fine Arts (AAFA) -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 (AAFA - 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.

In most cases, courses used to satisfy the MCCCD Associate in Arts, Fine Arts – Theatre will apply to general university graduation requirements of the majors that align with AAFA-Theatre degree; however, students need to pay attention to any specific requirements of their intended focus at the university to be sure they select courses that will meet them. Information regarding the articulation of the AAFA-Theatre degree with majors at the Arizona public universities can be accessed via the following website: www.aztransfer.com

DEGREE REQUIREMENTS

The 60-64 semester credits required for the Associate in Arts, Fine Arts - Theatre degree follow. The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGEC-A and the AGEC Matrix. Courses available for both Areas during a current or upcoming semester can also be found using the "Find A Class" tool on at each MCCCD college's website.

	Credits
MCCCD General Education	35-44
A AGEC - A	35-41

*Note: that some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well as their respective Core Area. (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)

1.	Cc	ore Areas35
	a.	First-Year Composition (FYC)
		ENG101 OR ENG107 AND
		• ENG102 OR ENG108
	b.	Literacy and Critical Inquiry [L]
		THE220 Modern Drama
	c.	Mathematics [MA]
		Requires a course in college mathematics (MAT140, MAT141, MAT142) or college algebra (MAT150, MAT151, MAT152) or pre-calculus (MAT187) or any other [MA] designated course for which college algebra is a pre-requisite.
	d.	Computer/Statistics/Quantitative Applications [CS]
	e.	Humanities, Arts and Design [HU]6
		HUM/THF205 Introduction to Cinema AND
		THE111 Introduction to Theatre
	f.	Social-Behavioral Sciences [SB]
		Students are encouraged to choose course work from more than one discipline.
	g.	Natural Sciences [SQ/SG]
		The lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course for a total of 4 credits each. Credits for lecture and lab components may be combined or each may carry separate credit. At least four (4) credits must be designated as SQ. Eight (8) credits of SG will not satisfy this requirement.
2.	Αv	vareness Areas: 0-6
	a.	Cultural Diversity in the United States [C]0-3
		May be met by [SB] course depending on specific courses selected.
	b.	Global Awareness [G] OR Historical Awareness [H]0-3
		May be met by [SB] and/or [SQ/SG] course depending on specific courses selected.
M	CC	CD Additional Requirements0-6
		As noted below, courses in this area may also be applied towards AGEC-A Core Area requirements.

1. Oral Communication	0-3
 COM100 [SB] Introduction to Human Communication (3) OR 	
 COM110 [SB] Interpersonal Communication (3) OR 	
COM225 [L] Public Speaking (3) OR	
 COM230 [SB] Small Group Communication (3) OR 	
 COM100AA & COM100AB & COM100AC [SB] (3) OR 	
 COM110AA & COM110AB & COM110AC [SB] (3) 	
2. Critical Reading	0-3
Students may demonstrate proficiency through assessment.	
CRE101 [L] Critical Reading (3) OR equivalent as indicated by assessment	
Part II. Fine Arts Requirements – Theatre:	25-29
1. Theatre Foundations	16-17
Complete all of the following:	
THF115 Makeup for Stage and Screen	3
THP112 Acting I	3
THP213 Introduction to Technical Theatre	3
THP214 Directing Techniques	3
THP217 Introduction to Design Scenography	3
THP201AA Theatre Production I (1) OR	
THP201AB Theatre Production II (2)	1-2
2. Theatre Electives	9-12
Choose any combination from the following list of courses totaling a minimum of nine (9) credits of additional coursework. Students may take a variety of courses, or they may choose to emphasize a particular aspect of theatre, such as acting, technical theatre, cinema, theatre education, directing, movement, musical theatre, etc. Students should consult with their campus theatre advisor for the restricted electives recommended to attain each area of emphasis.	
HUM/THF206 Introduction to Television Arts	3
HUM/THF210 Contemporary Cinema	3
THE118 Playwriting	3
THF120AA Audition Techniques for Stage and Screen: Prepared Monologue	1
THF120AB Audition Techniques for Stage and Screen: Cold Readings	1

THF130 Combat for Stage and Screen	3
THF209 Acting for the Camera	3
THF219 Advanced Acting for the Camera	3
THP131 Stage Movement	3
THP151 Theatre for Youth	3
THP211 Creative Drama	3
THP212 Acting II	3
THP216 Beginning Stage Lighting	3
THP219 Introduction to Puppetry	3
THP226 Theatrical Design: Costuming	3
COM/THP241 Oral Interpretation of Literature	3
THP262 Entertainment Industry Design Drafting	3
THP267 Painting Techniques for Film, TV and Theatre	3
THP268 Opportunities in Production	3
THP269 Technical Theatre Portfolio Development	1
MUP/THP270 Musical Theatre Workshop	2
COM/THP271 Voice and Diction	3
THP281 Production and Acting I	3
THP298AA-AC Special Projects	1-3

ASSOCIATE IN ARTS, FINE ARTS - THEATRE TOTAL CREDITS: 60-64

Maricopa Community Colleges (MCCCD) 2017-2018, Associate in Science Degree (AS)

DESCRIPTION

The degree includes the following components:

- I. General Education:Arizona General Education Curriculum for Science (AGEC-S)
 - **MCCCD Additional Requirements**
- II. Required Courses (Major Courses)

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. Generally, the degree will transfer as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements.

In most cases, courses 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: www.aztransfer.com

ACADEMIC POLICIES THAT GOVERN THE ASSOCIATE IN SCIENCE DEGREE

- Completion of the Associate in Science and 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. 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. On an exception basis, P-grades may be allowed in the AGEC for credit transferred if documentation collected by the community college indicates that the P-grade issued was the only option for the student and the P-grade is a "C" or better. The P-grade exception does not apply to credits awarded by AGEC granting/receiving institutions.

- Credit received through prior learning assessment or credit by evaluation is transferable within the Maricopa Community Colleges but is not necessarily transferable to other colleges and universities. No more than 20 semester credit hours may be applied toward AGEC.
- The General Education Requirements for AGEC-S may be completed in 36-38 semester credits with the following stipulations
 - 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 in the AGEC A and B.
 - A course can be used to satisfy the L and SB or L and HU requirements simultaneously in the Core area for the AGEC S.
- 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 AZ Transfer, 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-S requirements
 must be listed in the Course Equivalency Guide within AZ Transfer 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. View specific course information via
 the following website: https://asa.maricopa.edu/departments/center-for-curriculum-transfer-articulation by clicking on the statewide AGEC link.
- Maricopa courses and external courses evaluated as Maricopa equivalents or departmental electives (for example, HISELC, MATELC), that are numbered 100 level or higher, and completed with a grade of "C" or higher, may be applied in the elective area, regardless of potential transferability to other institutions. It is recommended, however, that students planning to transfer to a baccalaureate-granting institution meet elective requirements with courses that are transferable and applicable to their intended university degree. 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.
- Courses completed at one of the Maricopa Community Colleges to satisfy Common Courses
 must be transferable as elective or better to the universities that have the shared majors listed
 on a Common Course Matrix. A shared major is a university degree program that has similar
 academic preparation to one or more degree programs at other Arizona public universities
 as listed on the Common Course Matrices. For appropriate course selection, students should
 consult with an advisor.

DEGREE REQUIREMENTS

The 60-64 semester credits required for the Associate in Science follow. View specific course information via the following website: https://asa.maricopa.edu/departments/center-for-curriculum-transfer-articulation by clicking on the statewide AGEC icon. The AGEC A, B, S, and AGEC Matrix identify the courses in alpha-order by prefix as well as the Core Areas and Awareness Areas where the course will apply.

I. MCCCD General Education

The MCCCD General Education inlcudes two areas: MCCCD AGEC-S and MCCCD additional requirements.

MCCCD AGEC-S	
1. Core Areas:	6-38
a. First-Year Composition (FYC)	6
b. Literacy and Critical Inquiry [L]	0-3
Recommend selecting a course that satisfies L (Literacy and Critical Inquiry) and SB (Social-Behavioral Sciences) OR L (Literacy and Critical Inquiry) and HU (Humanities, Arts and Design) or L (Literacy and Critical Inquiry) and COM or L (Literacy and Critical Inquiry) and CRE101 requirements simultaneously.	
c. Mathematical Studies [MA] To complete the Mathematical Studies requirement, select one course to satisfy Mathematics [MA] S.	4
1) Mathematics [MA] S (4 credits)	
Select a calculus course MAT220 or MAT221, OR	
Any mathematics course for which MAT220 or MAT221 is a prerequisite.	
d. Humanities, Arts and Design [HU]	6
Students are encouraged to choose course work from more than one discipline for a total of six semester credits. Select a course	

		that satisfies both L and HU requirements simultaneously.	
	e.	Social-Behavioral Sciences [SB]	6
		Students are encouraged to choose course work from more than one discipline for a total of six semester credits.	
		Select a course that satisfies both L and SB requirements simultaneously.	
	f.	Natural Sciences	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.	
	g.	Subject Options (subject based on major)	-8
2.	Αv	vareness Areas:	
	Sta it i cre Ar se	udents must satisfy two Awareness Areas: Cultural Diversity in the United ates [C] and either Global Awareness [G] or Historical Awareness [H]. However, is not necessary for students to exceed thirty-six to thirty-eight semester edits to complete the Awareness Areas because courses can satisfy a Core ea and one or two Awareness Areas simultaneously. Therefore no additional mester credits are required to satisfy the two Awareness Areas.	
	Gl	obal Awareness [G] OR	
	Hi	storical Awareness [H]	
3.	M	CCCD Additional Requirements0	-6
	it i	udents must satisfy Oral Communication and Critical Reading areas. However, s not necessary for students to exceed the thirty-six to thirty-eight semester edits required in order to complete the MCCCD Additional Requirements.	
	a.	Oral Communication	
		A total of three (3) semester credits are 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 [SB] (3 credits)

b. Critical Reading

A total of three (3) semester credits are required for the Critical Reading area. If 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: www.aztransfer.com

Maricopa courses and external courses evaluated as Maricopa equivalents or departmental electives (for example, HISELC, MATELC), that are numbered 100 level or higher, and completed with a grade of "C" or higher, may be applied in the elective area, regardless of potential transferability to other institutions. It is recommended, however, that students planning to transfer to a baccalaureate-granting institution meet elective requirements with courses that are transferable and applicable to their intended university degree. For appropriate course selection, students should consult with an advisor. 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

Maricopa Community Colleges (MCCCD) 2017-2018, Associate in Business (ABUS) Degree, General Requirements (GR)

DESCRIPTION

The Maricopa County Community College District Associate in Business General Requirements (ABUS-GR) degree requires a total of 62-71 semester credits for the program of study. The degree has three major components:

- I. General Education:
 Arizona General Education Curriculum for Business (AGEC-B)
- II. Common Lower Division Program Requirements
- III. General Electives

PURPOSE OF THE DEGREE

The Associate in Business General Requirements (ABUS-GR) degree is designed for students who plan to transfer to four-year colleges and universities. In general, the components of this degree meet requirements for the various business majors (except Computer Information Systems) at Arizona's public universities. Computer Information Systems majors should follow the Associate in Business Special Requirements (ABUS-SR) pathway instead. Generally, the degree transfers as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements.

SPECIAL ACADEMIC POLICIES THAT GOVERN THE ABUS-GR DEGREE

- The ABUS-GR does not include any MCCCD Special Requirements for Oral Communication and/ or Critical Reading like the other Associate degrees. (However, some university programs have a speech requirement; consult your advisor or transfer guide to verify the specifics for your program.)
- A single course can be used to satisfy multiple areas within the degree simultaneously (AGEC-B Core Area and/or Awareness Area(s) and/or Common Lower Division Program Requirements).

DEGREE REQUIREMENTS

The 62-71 semester credits required for the Associate in Business General Requirements follow. The following websites identify the courses that apply to the different General Education Core and Awareness Areas:

AGEC-B and the AGEC Matrix. Courses available for both Areas during a current or upcoming semester can also be found using the "Find A Class" tool on each MCCCD college's website.

	<u>Cred</u>	<u>dits</u>
l.	MCCCD General Education35	5-41
	A. AGEC-B35	5-41
	*Note: that some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well as their respective Core Area. (AGEC designations are subject change. See AGEC matrix for each course's value(s) in the semester it is taken.)	
	1. Core Areas	35
	a. First-Year Composition (FYC)	6
	ENG101 OR ENG107 AND	
	ENG102 OR ENG108	
	b. Literacy and Critical Inquiry [L]	3
	(*Note: Students planning to attend ASU W.P. Carey will be required to take COM225.)	
	c. Mathematics [MA]	3
	MAT212 Brief Calculus or higher mathematics course	
	d. Computer/Statistics/Quantitative Applications [CS]	3
	CIS105 Survey of Computer Information Systems	
	e. Humanities, Arts and Design [HU]	6
	Students are encouraged to choose course work from more than one discipline.	
	f. Social-Behavioral Sciences [SB]	6
	Students are encouraged to choose course work from more than one discipline.	
	g. Natural Sciences [SQ/SG]	8
	The lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course for a total of 4 credits each. Credits for lect and lab components may be combined or each may carry separate credit.	
	At least four (4) credits must be designated as SQ. Eight (8) credits of SG will not sati this requirement.	sfy
	*Note: Students transferring to ASU in Accountancy should take two of the following course in meeting the general education requirements: a transfer course in Sociology; Psychology; COM230 or COM225. If students do not take these prior to transfer, they may need to take additional hours to meet ASU graduation requirements.	
	2. Awareness Areas:	0-6
	Some courses may be used to satisfy both a Core Area and one or more Awareness Area(s). (AGEC designations are subject to change. See AGEC matrix for each course value(s) in the semester it is taken.)	·'s

	a. Cı	ultural Diversity in the United States [C]	0-3
	b. G	lobal Awareness [G] OR Historical Awareness [H]	0-3
II.	Common L	Lower Division Program Requirements:	18-30
	Accoun	iting:	6-9
		ACC111 Accounting Principles I AND	
		ACC230 Uses of Accounting Information I AND	
	•	ACC240 Uses of Accounting Information II	
	0	OR .	
	•	ACC211 Financial Accounting AND	
	•	ACC212 Managerial Accounting	
		DR .	
		ACC111 Accounting Principles I AND	
		ACC112 Accounting Principles II AND	
		ACC212 Managerial Accounting	
		ome of the following courses can be used to satisfy both this requirements	
		GEC-B Core Area. (AGEC designations are subject to change. See AGEC	matrix for
		ach course's value(s) in the semester it is taken.)	
	E	CN211 [SB] Macroeconomic Principles	3
	E	CN212 [SB] Microeconomic Principles	3
	G	BS205 Legal, Ethical, and Regulatory Issues in Business	3
	Quantit	tative Methods:	3
	•	GBS220 Quantitative Methods in Business OR	
	•	*MAT217 Mathematical Analysis for Business OR	
	•	*MAT218 Mathematical Analysis for Business	
	* Stu	udents planning to attend ASU W.P. Carey will be required to take MAT2	17 or MAT218.
	Busines	ss Electives:	3-6
	Se	elect from the following options:	
		Some courses may be used to satisfy both Business Elective and Core	Area
		requirements, as indicated in the AGEC matrix. (AGEC designations ar	e subject to
		change. See AGEC matrix for each course's value(s) in the semester it	is taken.)
	•	CIS114DE Excel Spreadsheet	
	•	CIS133DA Internet/Web Development Level I	
	•	CIS162AD C#: Level I	
	•	GBS110 Human Relations in Business and Industry OR	
	•	MGT251 Human Relations in Business	
	•	GBS151 Introduction to Business	

• GBS233 [L] Business Communication

- GBS220 Quantitative Methods in Business (If course used to satisfy Common Lower Division Program Requirements, it can not be used to satisfy Business Electives.)
- IBS101 Introduction to International Business
- MGT253 Owning and Operating a Small Business
- REA179 Real Estate Principles I
- REA180 Real Estate Principles II
- MKT271 Principles of Marketing
- PAD100 21st Century Public Policy and Service
- SBU200 Society and Business

Select courses 100-level or higher as needed to complete a minimum of 62 semester credits but no more than a total of 71 semester credits. Ideally students should select courses that meet requirements for their major/area of interest and transfer institution. For appropriate course selection, students should consult with an academic advisor. See General Associate Degree Academic Policies for further details, limitations and guidelines.

Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives (e.g., HISELC for a history elective), or general electives (GENELC) that are numbered 100 level or higher, and completed with a grade of "C" or higher, may be applied in the elective area, regardless of potential transferability to other institutions. It is recommended, however, that students planning to transfer to a baccalaureate-granting institution meet these general elective requirements with courses that are transferable and applicable to their intended university degree. Transfer and major guides are accessible on the following websites: aztransfer.com, maricopa.edu/transfer/partners, as well as those of individual universities. For appropriate course selection, students should consult with an advisor.

ASSOCIATE IN BUSINESS GENERAL REQUIREMENTS TOTAL CREDITS: 62-71

Maricopa Community Colleges (MCCCD) 2017-2018, Associate in Business (ABUS) Degree, Special Requirements (SR)

DESCRIPTION

The Maricopa County Community College District Associate in Business, Special Requirements (ABUS-SR) degree requires a total of 62-71 semester credits for the program of study. The degree has three major components:

- I. General Education:
 Arizona General Education Curriculum for Business (AGEC-B)
- II. Common Lower Division Program Requirements
- III. General Electives

PURPOSE OF THE DEGREE

The Associate in Business General Requirements (ABUS-SR) degree is designed for students who plan to transfer to four-year colleges and universities. In general, the components of this degree meet requirements for Business' Computer Information Systems majors at Arizona's public universities. Other Business majors should follow the Associate in Business General Requirements (ABUS-GR) pathway instead. Generally, the degree transfers as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements.

SPECIAL ACADEMIC POLICIES THAT GOVERN THE ABUS-SR DEGREE

- The ABUS-SR does not include any MCCCD Special Requirements for Oral Communication and/or Critical Reading like the other Associate degrees. (However, some university programs have a speech requirement; consult your advisor or transfer guide to verify the specifics for your program.)
- A single course can be used to satisfy multiple areas within the degree simultaneously (AGEC-B Core Area and/or Awareness Area(s) and/or Common Lower Division Program Requirements).

DEGREE REQUIREMENTS

The 62-71 semester credits required for the Associate in Business Special Requirements follow. The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGEC-B and the AGEC Matrix. Courses available for both Areas during a current or upcoming semester can also be found using the "Find A Class" tool on at each MCCCD college's website.

	<u>Credits</u>	
l.	MCCCD General Education35-41	

A. AGEC-B35-	41
*Note that some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well as their respective Core Area. (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)	:О
1. Core Areas	35
 a. First-Year Composition (FYC) • ENG101 OR ENG107 AND • ENG102 OR ENG108 	6
b. Literacy and Critical Inquiry [L](*Note: Students planning to attend ASU W.P. Carey will be required to take COM225.)	3
c. Mathematics [MA]	3
MAT212 Brief Calculus or higher mathematics course	
d. Computer/Statistics/Quantitative Applications [CS]	3
CIS105 Survey of Computer Information Systems	
e. Humanities, Arts and Design [HU]	6
Students are encouraged to choose course work from more than one discipline.	
f. Social-Behavioral Sciences [SB]	6
Students are encouraged to choose course work from more than one discipline.	
g. Natural Sciences [SQ/SG]	8
The lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course for a total of 4 credits each. Credits for lectuand lab components may be combined or each may carry separate credit.	re
At least four (4) credits must be designated as SQ. Eight (8) credits of SG will not satistic this requirement.	sfy
2. Awareness Areas:)-6
Some courses may be used to satisfy both a Core Area and one or more Awareness Area(s). (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)	;
a. Cultural Diversity in the United States [C])-3
b. Global Awareness [G] OR Historical Awareness [H])-3
Common Lower Division Program Requirements:21-	30
Accounting:6	5-9
ACC111 Accounting Principles I AND	

ACC230 Uses of Accounting Information I AND

II.

•	ACC240 l	Jses of a	Accounti	ing Inf	formati	on II
OF	3					

- חי
- ACC211 Financial Accounting AND
- ACC212 Managerial Accounting

OR

- ACC111 Accounting Principles I AND
- ACC112 Accounting Principles II AND
- ACC212 Managerial Accounting

Some of the following courses can be used to satisfy both this requirement and an AGEC-B Core Area. (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)

ECN211 [SB] Macroeconomic Principles	3
ECN212 [SB] Microeconomic Principles	3
GBS205 Legal, Ethical, and Regulatory Issues in Business	3
GBS221 [CS] Business Statistics	3
Programming I:	3
CIS162AD C#: Level I	
ProgrammingII:	3
CIS250 Management of Information Systems	
Quantitative Methods:	3

- GBS220 Quantitative Methods in Business OR
- MAT217 Mathematical Analysis for Business OR
- MAT218 Mathematical Analysis for Business

(*Note: Students planning to attend ASU W.P. Carey will be required to take MAT217 or MAT218)

Select courses 100-level or higher as needed to complete a minimum of 62 semester credits but no more than a total of 71 semester credits. Ideally students should select courses For appropriate course selection, students should consult with an academic advisor. See General Associate Degree Academic Policies for further details, limitations and guidelines.

Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives (e.g., HISELC for a history elective), or general electives (GENELC) that are numbered 100 level or higher, and completed with a grade of "C" or higher, may be applied in the elective area, regardless of potential transferability to other institutions. It is recommended, however, that students planning to transfer to a baccalaureate-granting institution meet these general elective requirements with courses that are transferable and applicable to their intended university degree. Transfer and major guides are accessible on the following websites:

aztransfer.com, maricopa.edu/transfer/partners, as well as those of individual universities. For appropriate course selection, students should consult with an advisor.

ASSOCIATE IN BUSINESS SPECIAL REQUIREMENTS TOTAL CREDITS: 62-71

Maricopa Community Colleges (MCCCD) 2017-2018, Associate in General Studies (AGS) Degree

DESCRIPTION

The Maricopa County Community College District Associate in General Studies degree requires 60-64 semester credits in courses numbered 100 and above. The degree includes the following components:

- General Education (minimum of 38 credits)
 Core curriculum (requires a grade of "C" or better)
 Distribution courses (requires a grade of "D" or better)
- II. General Electives (enough additional courses numbered 100 or above, passed with a grade of "D" or better, to bring total credits to at least 60)

PURPOSE OF THE DEGREE

The Associate in General Studies (AGS) degree is recommended for students whose educational goals require flexibility. The AGS allows students to apply any course numbered 100 or above, including some that are not transferable to a state university, toward the credits required for the degree. Therefore, for students who intend to transfer to another college or university in the future to pursue a bachelor's degree, this degree may be less appropriate than other Associate degrees offered (Associate in Arts (AA, AAEE, AAFA), Associate in Business (ABUS-GR, ABUS-SR) or Associate in Science (AS)) by the Maricopa Community Colleges.

Students who demonstrate skills comparable to those in Critical Reading 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:

- The graduation policies within the general catalog must be satisfied.
- A single course can simultaneously count towards a Core Area and a Distribution requirement. Courses that meet this criterion are <u>bold print and underscored</u> in the Core areas and Distribution areas (on the course list at the conclusion of this document). For example, CRE101 may be used to satisfy both the Literacy and Critical Inquiry requirement [L] of Distribution area and the Core Curriculum's Critical Reading area. While multiple requirements can be met with a single course, the credits are only counted one time toward the required minimum for the degree.

- <u>Credits transferred from outside of MCCCD</u> must be at a grade of "C" (2.0 on a 4.0 scale) or better. Transfer credit graded pass/fail or pass/no credit may be transferred if documentation collected by the community college indicates that this was the only grading option available to the student and that the Pass grade ("P") is equivalent to a "C" or better.
- Completion of the AGS with a minimum Grade Point Average of at least 2.0 on a 4.0 scale for
 Arizona residents and 2.50 for non-residents meets Arizona public university general admission
 requirements. However, meeting all AGS minimums does not ensure admission to specific
 university majors or programs with selective admission processes and/or limited enrollment.
 Furthermore, because the AGS is not designed to align with the requirements for bachelors
 degrees, not all credits may be transferable and students may have deficiencies in lower
 division (100- and 200-level) courses for a particular major.

SUMMARY OF DEGREE REQUIREMENTS:

Details on how to identify courses approved for each of the different categories is described following the outline.

<u>Credits</u>	
MCCCD General Education	I. N
1. Core Areas	
a. First-Year Composition6	
ENG101 OR ENG107 AND	
• ENG102 OR ENG108	
b. Mathematics	
c. Computer Usage0-1 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.	
d. Oral Communication3	
 COM100 Introduction to Human Communication OR 	
COM110 Interpersonal Communication OR	
COM225 Public Speaking OR	
 COM230 Small Group Communication (3 credits) OR 	
 COM100AA & COM100AB & COM100AC (3 credits) OR 	
 COM110AA & COM110AB & COM110AC (3 credits) 	
e. Critical Reading0-3	
Students may demonstrate proficiency through assessment. CRE101 Critical Reading OR equivalent as indicated by assessment.	

2. D	istribution Areas26-2	7
a.	Humanities, Arts and Design	9
	Students are encouraged to choose course work from more than one discipline.	
b.	Social-Behavioral Sciences	9
	Students are encouraged to choose course work from more than one discipline.	
C.	Natural Sciences7-	8
	Two lecture courses and one corresponding laboratory course are to be selected. Credits for lecture and lab components may be combined or each may carry separate credit. For appropriate course selection students should consult with an advisor.	
d.	Literacy and Critical Inquiry	3
	Students are encouraged to choose course work from more than one discipline.	
II. General	Electives	6
	elect additional courses 100-level or higher to complete a minimum of D semester credits but no more than a total of 64 semester credits.	
ASSOCI	ATE IN GENERAL STUDIES TOTAL CREDITS: 60-64	

AGS REQUIREMENTS:

All courses listed meet AGS requirements as specified. Courses in Purple Italic Underline also meet Arizona General Education Curriculum AGEC requirements. Courses in bold print and underscored simultaneously count towards a Core Area and a Distribution requirement.

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 or Equivalent as indicated by assessment

Mathematics (3 credits)

MAT Mathematics 112, 120, 121, 122, 122AA & 122AB&122AC, 140, 141, 142, 150, 151, 151AA & 151AB &151AC &151AD, 152,172,182, 187, 206, 212, 213,220, 221, 230, 231, 240, 241, 256,

257, 261, 262, 276,277, Equivalent course/Satisfactory completion of a higher level Mathematics course.

Computer Usage (1 credit)

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

- ACC Accounting 115
- ADA Advertising Arts 169, 175, 177, 183, 283, 283AA, 289
- AJS Administration of Justice Studies 205
- AMS Automated Manufacturing System 150
- ARC Architecture 243, 244, 245
- ART Art 100, 169, 170, 173, 175, 177, 179, any 180++ course, 183, 283, 289
- BIO Biology 283
- BPC Business-Personal Computers Any BPC Course(s), including 110
- CIS Computer Information Systems Any CIS Course(s), including 105, 162AB, 162AD, 163AA (and except 159,162, 162AC, 169, 183AA, 217AM, 259, 262)
- CSC Computer Science Any CSC Course(s), including 100AA,100AB, 110, 110AA, 110AB, 120, 150, 150AA, 180 180AA,180AB, 181, 181AA, 181AB, 182, 182AA, 205, 205AA, 205AB, 205AC, 205AD, 283 (and except 200, 200AA, 200AB,210, 210AA, 210AB)
- CTR Court Reporting 101, 102
- DFT Drafting Technology 105AA**, 251, 254AA, 256AA**Must be taken with CSC100AA or AB to meet AGEC value
- ECH Early Childhood Education 238
- **EEE** Electrical Engineering 120
- ELE Electronic 131, 181, 241, 243, 245
- ELT Electronic Technology 131, 241, 243
- ENG English 100AE
- FON Food & Nutrition 100
- GBS General Business 221
- GIS Geographic Information Science 205, 211
- **GPH** Physical Geography 220
- HRM Hotel Restaurant Management 126
- JRN Journalism 133

- LAS Paralegal Studies 229
- MAT Mathematics 206
- MET Manufacturing Technology 264
- MTC Music Theory/Composition 180, 191
- **NET Networking Technology 181**
- OAS Office Automation Systems 111AA/111AB/113/119/130DK
- PSY Psychology 230
- SBS Small Business 211
- SWU Social Work 225
- TVL Travel Agent Technology 203
- VPT Video Production Technology 106
- GENERAL EDUCATION DISTRIBUTION AREAS (28-29 credits)

Humanities, Arts and Design (9 credits)

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

- **AHU Arabic Humanities 245**
- AIS American Indian Studies 213
- AJS Administration of Justice Studies 123
- ARH Art Humanities Any ARH Course(s), including 100, 101, 102, 109, 110, 112, 115, 118, 131, 145, 201, 203, 204, 217, 216, 240, 250
- ASB Anthropology 211, 214, 220, 222, 223, 253
- CCS Chicana and Chicano Studies 101
- CNS Construction 101
- **COM Communication 241**
- DAH Dance Humanities 100, 201, 250, 255
- EDU Education 291, 292, 294
- ENG English 200, 213, 218
- ENH English Humanities Any ENH Course(s), including 110, 111, 112, 113, 114, 117, 130, 190, 200, 201, 202, 204, 206, 214, 221, 222, 230, 231, 232, 235, 241, 242, 245, 251, 252, 253, 254, 255, 256, 259, 260, 275, 277, 277AA-AK, 280, 284, 285, 291, 294, 295 (and except 250)
- FRE French 265
- HCR Health Care Related 210

- HIS History 101, 102, 103, 108, 110, 111, 113, 114, 203, 212, 251,253, 254, 252, 275
- HUM Humanities Any HUM course(s), including 100, 101, 105AA,107, 108, 190AA, 190AB, 190AC, 190AD, 190AE, 190AF,190AG, 190AH, 190AI, 201, 202, 205, 206, 209, 210, 211AA, 211AE, 212, 213, 214, 215, 216, 220, 245, 250, 251, 260, 261, 292, 295 (and except 120, 225)
- INT Interior Design 115, 120, 225
- LAT Latin 201, 202
- MHL Music: History/Literature 140, 143, 145, 146, 153, 155, 194,204, 241, 242, 295
- PHI Philosophy Any PHI Course(s), including 101, 102, 103, 104, 105, 106, 113, 201, 212, 213, 214, 215, 233AC, 216, 218, 224, 233AA, 233AB, 234AC, 244, 245, 250, 251, 282AA-AC
- REL Religious Studies Any REL Course(s), 100, 101, 151, 200, 202, 203, 205, 206, 207, 210, 211, 212, 213, 214, 218, 223, 225, 230, 240, 244, 245, 248, 250, 251, 271, 277, 292, 294, 295, 282AA-AC, 290, 291
- SLC Studies in Language & Culture 201
- SPA Spanish 241, 242, 265, 266
- SPH Spanish Humanities 241, 245
- SSH Sustainability/Social Sciences and Humanities 111
- STO Storytelling 292, 294
- TCM Telecommunications 107
- THE Theater 111, 220
- THF Theatre and Film 205, 206, 210
- THP Theater/Performance/Production 241
- WST Women's Studies 209, 284, 285, 290
- Social-Behavioral Sciences (9 credits)

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

- AFR African American Studies 202
- AIS American Indian Studies 101, 140, 141,160
- AJS Administration of Justice Studies 101, 119, 200, 225, 258, 259, 270
- ASB Anthropology 100, 102, 202, 211, 222, 223, 226, 230, 235, 252
- ASM Anthropology 104/275
- CCS Ethnic Relations 202
- CFS Child/Family Studies 112, 157, 159, 176, 205, 235, 259

- COM Communication 100, 100AA&100AB&100AC,110, 110AA&110AB&110AC, 163, 230, 250, 263
- ECH Early Childhood Education 176
- ECN Economics 160, 211, 212, 213, 250
- EDU Education 221, 222
- EED Early Education 200, 205, 222
- EMT Emergency Medical Technology 258
- ENG English 213
- FOR Forensic Science 275
- FSC Fire Science Technology 258
- FUS Future Studies 101
- GCU Cultural Geography 102, 113, 121, 122, 141, 221
- HES Health Science 100
- HIS History any HIS Course(s), including 100, 101, 102, 103, 104, 105, 106,108, 109, 113, 114, 140, 145, 173, 190, 201, 203, 204, 209, 240, 241, 242, 273, 275, 277, 282AA-AC (and except 111, 170, 251, 252, 253, 254)
- **HON Honors 201**
- **IBS** International Business 109
- IFS Research in Global Society 210
- MCO Mass Communications 120
- MGT Management 229, 230
- PAD Public Administration 200
- POS Political Science Any POS course(s), including 100, 101, 110, 113, 115, 120, 125, 130, 140, 180, 210, 212, 221, 222, 223, 230, 270, 281AB, 282AA-AC, 285
- PSY Psychology 101, 123, 132, 156, 157, 215, 218, 225, 235, 240, 241, 243, 250, 260, 266, 277, 280, 292
- **REC Recreation 120**
- SBU Society and Business 200
- SLC Studies in Language & Culture 201
- SOC Sociology Any SOC course(s), including 101, 110, 130, 141, 157, 180, 212, 220, 241 251, 266 (and except 143, 245, 253, 265, 270)
- SSH Sustainability/Social Sciences and Humanities 111

SUS Sustainability/Natural Sciences 110

SWU Social Work 102, 171, 250, 258, 292

WED Wellness Education 110

WST Women's Studies 100, 161

YAQ Yaqui Indian History and Culture 100

Natural Sciences (7-8 credits)

Two lecture courses and one corresponding laboratory course are to be selected. The lecture and corresponding laboratory course(s) may carry separate credit. For appropriate course selection students should consult with an advisor.

AGS Agricultural Science 164, 260

ASB Anthropology 231

ASM Anthropology 104, 265, 275

AST Astronomy 101&102, 106&107, 111&113, 112&114

BIO Biology 100, 101, 102, 105, 107, 108, 109, 111, 145,149AF, 149AH, 149AK, 149AL, 149AM, 149AN, 156, 156XT, 160, 181, 181XT, 182, 201, 202, 205, 241, 245

CHM Chemistry 107&107LL, 130&130LL, 130AA, 150&151LL,150AA, 151&151LL, 151AA, 152&152LL, 152AA, 154&154LL, 230&230LL

ENV Environmental Sciences 101

FON Food and Nutrition 241&241LL

FOR Forensic Science 105, 106, 275

GLG Geology 101&103, 102&104, 105, 106&107, 110&111121, 140, 229AB-AC, 230AA-AC, 231AA-AD, 280, 281, 282AA

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

PHS Physical Science 110, 120

PHY Physics 101, 101AA, 111, 111AA, 112, 115, 116, 121, 131

PSY Psychology 275, 290AB, 290AC

Literacy and Critical Inquiry (3 credits)

AIS American Indian Studies 213

BIO Biology 294

COM Communication 222, 225, 241

CPD Counseling and Personal Development 160

CRE Critical Reading 101

CUL Culinary Arts 223

DAH Dance Humanities 255

EDU Education 282AC

ENG English 111, 200, 215, 216, 217, 218

ENH English Humanities 241, 254, 255

EXS Exercise Science 290

GBS General Business 233

GPH Physical Geography 267

HUM Humanities 225, 250, 251

IFS Information Studies 201

JRN Journalism 201, 215, 234

MCO Mass Communications 220

MGT Management 230

MHL Music: History/Literature 204

PHI Philosophy 103, 106, 218, 244

POS Political Science 115

PSY Psychology 290AB, 290AC

REL Religious Studies 203, 205, 207

THE Theatre 220

THP Theatre 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.

Maricopa Community Colleges (MCCCD) 2017-2018, Associate in Applied Science (AAS) General Education Requirements

DESCRIPTION

The degree includes the following components:

- I. General Education:
 - Arizona General Education Curriculum for Arts (AGEC-A)
 - **MCCCD Additional Requirements**
- II. Required Courses (Major Courses)

The Associate in Applied Science (AAS) degree requires at least 60 credits in its program of study. The exact number of credits for a specific degree is identified as part of the presentation of its requirements on the web or in the college catalog.

PURPOSE OF THE 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 in a particular workforce-related area of study. The AAS degree options vary at the different MCCCD colleges. Students can find other listings of AAS degree options sorted either alphabetically or by area of interest. Requirements for each degree can be found on the linked webpages or in the corresponding college(s)'s catalog.

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 colleges. 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 (see exception, next paragraph). 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 areas are excluded;

The exception is the Nursing program. Students 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.

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 Mathematics 103AA&103AB/112/120/121/122/122AA/122AB/
122AC/140/141/142/150 /151/151AA/151AB/151AC/151AD/
152/172/182/187/206/212/213/220/221/230/231/240/241/256/257/261/262/
276/277/equivalent course/Satisfactory completion of a higher level mathematics course

GENERAL EDUCATION DISTRIBUTION AREAS (9-10 credits)

Humanities, Arts and Design (2-3 credits)

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

AHU Arabic Humanities 245

AIS American Indian Studies 213

AJS Administration of Justice Studies 123

ARH Art Humanities Any ARH Course(s)

ART Art 131

ASB Anthropology 211/214/220/222/223/253

CCS Chicana and Chicano Studies 101

CNS Construction 101

COM Communication 241

DAH Dance Humanities 100/201/250/255

EDU Education 291/292/294

ENG English 200/213/218

ENH English Humanities Any ENH Course(s) (except 250)

FRE French 265

HCR Health Care Related 210

HIS History 101/102/103/108/110/111/113/114/203/212/251/252/275

HUM Humanities Any HUM course(s) (except 120, 225)

INT Interior Design 115/120/225

LAT Latin 201/202

MHL Music: History/Literature 140/143/145/146/153/155/194/204/241/242/295

PHI Philosophy Any PHI Course(s)

REL Religious Studies Any REL Course(s)

SLC Studies in Language & Culture 201

SPA Spanish 241/242/265/266

SPH Spanish Humanities 241, 245

SSH Sustainability/Social Sciences and Humanities 111

STO Storytelling 292/294

TCM Telecommunications 107

THE Theatre 111/220

THF Theatre and Film 205/206/210

- THP Theatre Performance/Production 241
- WST Women's Studies 209/284/285/290
- Social-Behavioral Sciences (3 credits)

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

- AFR African American Studies 202
- AIS American Indian Studies 101/140/141/160
- AJS Administration of Justice Studies 101/200/225/258/259/270
- ASB Anthropology 100/102/202/211/222/223/226/230/235/252
- ASM Anthropology 104/275
- CFS Child/Family Studies 112/157/159/176/205/235/259
- COM Communications 100/100AA&100AB&100AC/110/110AA&110AB & 110AC/ 163/230/250/263
- ECH Early Childhood Education 176
- ECN Economics Any ECN course(s)
- EDU Education 221/222
- EED Early Education 200/205/222
- EMT Emergency Medical Technology 258
- ENG English 213
- FOR Forensic Science 275
- FSC Fire Science 258
- **FUS Future Studies 101**
- GCU Cultural Geography 102/113/121/122/141/221
- HES Health Science 100
- HIS History Any HIS course(s) (except 111,170, 251, 252, 253, 254)
- HON Honors 201
- **IBS** International Business 109
- IFS Information Studies 210
- MCO Mass Communications 120
- PAD Public Administration 200
- POS Political Science Any POS course(s)
- PSY Psychology 101/123/132/156/157/215/218/225/235/240/241/243/250/260/266/277/280/292

- REC Recreation 120
- SBU Society and Business 200
- SLC Studies in Language & Culture 201
- SOC Sociology Any SOC course(s) (except 143, 245, 253, 265, 270)
- SSH Sustainability/Social Sciences and Humanities 111
- SUS Sustainability/Natural Sciences 110
- SWU Social Work 102/171/250/258/292
- WED Wellness Education 110
- WST Women's Studies 100/161
- 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, 260
- ASB Anthropology (Soc/Behv. Science) 231
- ASM Anthropology (Science/Math) 104/265/275
- AST Astronomy 101&102/106&107/111/112/113/114
- BIO Biology 100/101/102/105/107/108/109/111/145/149AN/156/ 156XT/160/181/181XT/182/201/201XT/202/205/241/245
- CHM Chemistry 107&107LL/130&130LL/130AA/150AA/150&151LL/151AA/151&151LL/152AA/
 152&152LL/154&154LL/230&230LL
- **ENV** Environmental Sciences 101
- FON Food and Nutrition 241&241LL
- FOR Forensic Science 105/106/275
- GLG Geology Any GLG course(s)
- GPH Physical Geography 111/112&113/211/212&214/213&215
- PHS Physical Science 110/120
- PHY Physics 101/101AA/111/111AA/112/115/116/ 121/131
- PSY Psychology 275/290AB/290AC

Maricopa Community Colleges (MCCCD) 2017-2018, Academic Certificate (AC)

PURPOSE OF THE ACADEMIC CERTIFICATE

The Maricopa Community College District Academic Certificate (AC) is a defined and coherent program of study that is recommended for students who wish to gain additional expertise in a specific area of emphasis in an academic discipline. While this program of study can result in proficiency in specified skills and competencies, as well as mastery of a body of knowledge, it is not designed to prepare someone for employment in a specific occupation. The coursework for an Academic Certificate may be from a variety of disciplines or it can be discipline specific. There is no required general studies component to an Academic Certificate; however, the program may include some courses that have specific general studies designations such as Humanities, Arts and Design [HU], Social-Behavioral Sciences [SB], Literacy and Critical Inquiry [L], or Cultural Awareness [C]. (See AGEC matrix for current course values.)

ACADEMIC POLICIES THAT GOVERN THE ACADEMIC CERTIFICATE

- Although, the program of study for an Academic Certificate (AC) does not have a mandated minimum number of credit hours, most ACs require approximately 12-39 credit hours in courses numbered 100 and above;
- Requires a cumulative GPA of 2.0 or better in required courses for completion;
- Follows the graduation policies listed in the college's general catalog for the appropriate catalog year;
- Any course cross-referenced under another prefix(es) (for example ENH291/EDU291/STO291-Children's Literature) covers identical content and its credits can only be counted once toward certificate requirements;.
- Although ACs may include a subset of coursework required in particular transfer degree, the
 intent of an AC is not to align with any specific university major. There is no presumption of
 block transfer to another college or university;
- May have admission criteria established by the college if and when appropriate;
- Generally offered at a limited number of colleges. For a listing of all ACs available in the district and their affiliated college(s) see the CCTA web site.

Maricopa Community Colleges (MCCCD) Allied Health or Nursing Program (S-13)

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 practice, the Maricopa Community Colleges integrated the curriculum of all allied health and nursing programs. All allied health or nursing 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 allied health or nursing 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.

ALLIED HEALTH OR NURSING ASSUMPTION OF RISK/RELEASE OF LIABILITY

Most of the allied health or nursing program pathways include a program of study in a clinical training environment that 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 allied health or nursing program pathways will have learning experiences in a health care setting where they will 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).

ALLIED HEALTH OR NURSING PROGRAM COLLEGE ATTENDANCE

As the allied health or nursing programs are integrated across the Maricopa Community Colleges, college of attendance requirements for the completion of the healthcare program pathways can be met through the completion of coursework taken at all Maricopa Community Colleges and Skills Centers.

MCCCD REQUIRED BACKGROUND CHECKS

Students enrolled in an MCCCD allied health or nursing program are required to complete and pass clinical learning experiences, working with children, elderly persons, and other vulnerable populations. MCCCD's major clinical agency partners now mandate that any college students

assigned to them for clinical experiences submit to a comprehensive background clearance prior to entering such learning experiences. Because the clinical experience portion of the programs is critical to completing a program of study, MCCCD has instituted two specific background check requirements in order for a student to enroll in a program on or after September 1, 2011. First, the student must obtain, at his or her own cost, a Level I Fingerprint Clearance Card from the Arizona Department of Public Safety. Precluding offenses for a Level I card can be found in Arizona Revised Statute § 41-1758.07 (http://www.azleg.gov/FormatDocument.asp?inDoc=/ars/41/01758-07. htm&Title=41&DocType=ARS). Additionally, students must also obtain a "pass" status on a MCCCD supplemental background check from MCCCD's authorized background check contractor. The student must also pay for this background check. The supplemental check will be based on the most stringent standards of MCCCD's clinical experience partners.

The sole program for which the background check requirements are different is the Emergency Medical Technician program. For that program, students must have obtained a Level 1 Fingerprint Clearance Card from the Arizona Department of Public Safety. They are also required, at the time of their clinical assignments, to submit to, pay for and pass any additional background check requirements of the clinical agencies to which their EMT program places students.

Certain licensing boards may require a separate background check or clearance card upon application for licensure or certification.

The MCCCD supplemental background check review may include searches of the following databases and information but MCCCD reserves the right to change the search criteria and the program background check requirements at any time without notice:

- 1. National Federal Health Care and Abuse Databases
- 2. Social Security Number Verification
- 3. Residency History
- 4. Arizona Statewide Criminal offense Databases
- 5. Nationwide Criminal offense Databases
- 6. State of Arizona and National Sexual Offender Registries
- 7. Homeland Security Watch Lists

Examples of background information that will result in a "fail" status on the supplemental background check include:

- 1. Social Security number does not belong to the applicant
- 2. Any inclusion on any registered sex offender database
- 3. Any inclusion on any of the Federal exclusion lists or Homeland Security watch lists

- 4. Any conviction of a felony regardless of how long ago the conviction was
- 5. Any arrest warrant issued by any state
- 6. Any misdemeanor conviction for the following regardless of how long ago the conviction was:
 - A. Violent crimes
 - B. Sex crime of any kind including non consensual sexual crimes and sexual assault
 - C. Murder, attempted murder
 - D. Abduction
 - E. Assault
 - F. Robbery
 - G. Arson
 - H. Extortion
 - I. Burglary
 - J. Pandering
 - K. Any crime against minors, children, vulnerable adults including abuse, neglect, exploitation
 - L. Any abuse or neglect
 - M. Any fraud
 - N. Illegal drugs
 - O. Aggravated DUI
- 8. Any misdemeanor relating to a controlled substance conviction in last 7 years
- 9. Any other misdemeanor conviction within last 3 years with the exception-any misdemeanor traffic misdemeanor [NOTE that a DUI is NOT considered a traffic misdemeanor.]

The information that MCCCD uses for the "pass/fail" background check is subject to change at any time without notice. MCCCD recommends that students carry proof of the background clearance at all times during any clinical agency learning experience.

STUDENTS ACCEPTED IN A PROGRAM BEFORE SEPTEMBER 1, 2011

Students who are accepted in a program before September 1, 2011 will generally need to meet the requirements of each program that existed before that date. It is not MCCCD's intent to apply the standards effective on September 1, 2011 to students accepted in a program before that date. However, note that MCCCD always reserves the right to change the requirements for these programs, even after a student is accepted. Students should be aware of this right.

DUTY TO REPORT CHANGES; REMOVAL

Students have an obligation to immediately report to the director of their program any change in the information that they supplied on forms submitted to initiate background checks relating to the allied health or nursing program. That includes information provided to the Arizona Department of Public Safety and MCCCD's supplemental background check vendor, as well as that related to the background check required by a clinical agency. Failure to do so will result in removal from the program. Additionally, any change in background check status that would affect the student's clearance under either MCCCD's or a clinical agency's standards will result in removal from a program.

ADDITIONAL CLINICAL AGENCY BACKGROUND CHECK

Some clinical agencies require that students assigned to their sites submit to a criminal background check covering other offenses, as well as to a drug screening. Students are required to pay for the additional agency clinical background check. A clinical agency that requires this additional background check may refuse to place a student due to information the clinical agency obtains in its background check even though that student possess a valid Level I Fingerprint Clearance Card and has obtained a "pass" status on the MCCCD supplemental background check.

Some conditions that have resulted in students being denied placement at clinical agencies include pending criminal charges, outstanding warrants, unfinished terms of a sentence (such as unpaid fines), pattern of repeated types of arrests/convictions, and failure to disclose all past arrests/convictions when asked to do so on any background check application.

INABILITY TO PLACE

MCCCD has no obligation to make repeated attempts to place a student when the reason for MCCCD's inability to place the student is due to background check issues. Since clinical agency assignments are mandatory requirements for completion of a program, a student's inability to complete required clinical experience due to his or her background inability to place the student is due to background check issues. Since clinical agency assignments are mandatory requirements for completion of a program, a student's inability to complete required clinical experience due to his or her background check issues will result in removal from the program.

CHANGES TO ADMISSION OR BACKGROUND CHECK REQUIREMENTS

MCCCD may change its program admission requirements or background check requirements without notice at any time.

NO GUARANTEE OF RECEIPT OF LICENSURE/CERTIFICATE

Many of the nursing and allied health 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 a nursing and allied health program does not guarantee the receipt of a license or certificate to practice in the field of study.

Occupational Program Matrix

The Maricopa County Community College Occupational Program Matrix identifies all programs currently available for offering within the 10 community colleges and two skill centers of the district. The programs are grouped under broad occupational areas as requested by the colleges. For specific information regarding individual programs, contact the college(s) listed as participating institutions.

COLLEGE KEY			
CG:	Chandler Gilbert Community College		
PC:	Phoenix College		
EM:	Estrella Mountain Community College		
PV:	Paradise Valley Community College		
GC:	Glendale Community College		
RS:	Rio Salado College		
GW:	GateWay Community College		
SC:	Scottsdale Community College		
MC:	Mesa Community College		
SM:	South Mountain Community College		

Agriculture, Food & Natural Resources

•	Equine Science	50
•	Environmental and Natural Resource	
	Conservation	PC
•	Environmental and Natural Resource	
	Sustainability	PC
•	Equine Science	SC
•	Landscape Aide	MC
•	Landscape Horticulture	MC
•	Landscape Specialist	MC
•	Sustainable Agriculture	MC
•	Veterinary Technology	MC

Architecture & Construction

•	Air Conditioning/Refrigeration/Facili	tiesGW
•	Architectural Technology	SC
•	Building Inspection	MC
•	Construction Trades: Carpentry	GW
•	Construction Trades: Construction	
	Management	GW

•	Construction Trades: ElectricityGW
•	Construction Trades: General
	Construction WorkerGW
•	Construction Trades: Heat
	and Frost InsulationGW
•	Construction Trades: IronworkingGW
•	Construction Trades: MillwrightingGW
•	Construction Trades: Painting
	and DrywallingGW
•	Construction Trades: Pre-
	ApprenticeshipGW
•	Construction Trades –
	Mechanical Trades: PipefittingGW
•	Construction Trades –
	Mechanical Trades: PlumbingGW
•	Construction Trades –
	Mechanical Trades: Sheet MetalGW
•	Computer Aided DraftingMC
•	Computer Aided Design and
	Drafting CADD Level IMC
•	Construction ManagementMC
•	Construction Trades:
	Heavy Equipment OperationsGW
•	Mechanical DraftingMC
•	Power Plant TechnologyEM
•	Residential and Light Commercial
	Air ConditioningGW
•	Workforce Development: Carpentry Level IRS
•	Workforce Development: Carpentry
	Level IIRS
•	Workforce Development: Furniture
	Construction/Refinishing Level IRS
•	Workforce Development: Furniture
	Construction/Refinishing Level IIRS

Art, A/V Technology & Communication

•	Adolescent DevelopmentR
•	Adult Development and AgingR
•	Alteration SpecialistMG
•	Apparel ConstructionPC
•	Audio Production Technologies GC, MC, PC PV, SC
•	Beginning Piano PedagogyMG
•	Intermediate Piano PedagogyMG
•	Costume Design and ProductionMG
•	CostumingPC
•	Computer Graphic DesignPC
•	Dance TechnologySG
•	Disc Jockey TechniquesMC, SG
•	Digital Media ArtsGG
•	Family Life EducationGC, RS
•	Fashion DesignPC
•	Fashion Design Level IPC
•	Fashion Design Level IIPC
•	Fashion IllustrationPC
•	Fashion MerchandisingPC
•	Fashion Merchandising & DesignMO
•	Fashion Design EntrepreneurshipPO
•	Graphic Design: Visual Communication SG
•	Interior MerchandisingMC, PC, EN
•	Interior DesignMC, PC, SC
•	Interior Design: AdvancedMG
•	Image ConsultantMC
•	Journalism and New
	Media StudiesGC, PV,MC, SG
•	Music BusinessCG, GC, MC, PC, PV, SC, SN
•	PhotographyGC, PC
•	Parent EducationRS
•	Pattern Design Level IPO
•	Pattern Design Level IIPO
•	Workforce Development:
	Graphic Arts Level IR
•	Workforce Development:
	Graphic Arts Level IIR

Business, Management & Administration

•	AccountingGC, PC, GW, RS, SM, CG, EM
•	Accounting – Specialized
	Para-ProfessionalPV
•	Accounting ParaprofessionalGC
•	Administrative ProfessionalPV
•	Administrative TechnologyGW
•	Administrative ProfessionalPC, MC
•	Automobile Insurance: Customer Service . RS
•	Automobile Insurance Claims:
	Customer ServiceRS
•	Broadband Telecommunications:
	Account ServicesRS
•	Broadband TelecommunicationsRS
•	Broadband Telecommunications:
	Field OperationRS
•	Broadband Telecommunications:
	Technical Support ServicesRS
•	BookkeepingSC
•	BusinessMC, SC
•	Business (Fastrack)SC
•	Business ManagementSM
•	Business Technology SpecialistGW
•	Business Office AssistantGC
•	Computer ApplicationsPC
•	Court Reporting: JudicialGW
•	Credit Counseling: Customer ServiceRS
•	Entrepreneurial Studies Level I GW, MC, PV,
	RS, SM
•	Entrepreneurial Studies Level II GW, MC, PV,
	RS, SM
•	General BusinessCG, GC, MC, PC, RS, SC, SM
•	General Business SpecializedPVC
•	Human Resources ManagementPC
•	Human Services-Assistance:
	Public Assistance EligibilityRS
•	Human Services-Specialist:
	Customer ServiceRS
•	Human Services - Unemployment
	Insurance: Customer ServiceRS

•	Insurance StudiesGC, MC, RS	•	Bilingual Education/Dual Language
•	International BusinessPV		Immersion (BE/DLI)MC
•	International TradeMC	•	Child and Family Organizations
•	ManagementPC, MC, PV		Management and AdministrationGC, RS
•	Middle ManagementGC, PV	•	Child Development Associate
•	Military LeadershipRS		(CDA) PreparationGC, PV, SM, EM
•	Motor Vehicle: Customer ServiceRS	•	Curriculum for Young ChildrenPC
•	Office TechnologyGW	•	Early Care SpecialistMC
	Organizational Leadership CG, GC, EM, GW,	•	Early Childhood DevelopmentSM
	MC, PV, RS	•	Early Childhood Education
	Organizational ManagementCG, GC, EM,		and Administration:
	GW, MC, RS		Birth through Age FivePC
	Pharmacy: Customer ServiceSM	•	Early Childhood Classroom
	Paralegal StudiesPC		ManagementPC
	Project ManagementMC	•	Early Childhood EducationPV, GC, EM
	Quality Customer ServiceRS	•	Early Childhood Administration and
	Realtime Reporting ScopingGW		ManagementGC, RSC
	Public RelationsMC, GC	•	Early Learning and DevelopmentCG, MC,
	Retail Management CG, GC, GW, MC,PC		RS, SM
	RS, SM, SC	•	Family Child Care ManagementRS, SM
	Retail Sales ManagerMC	•	Foundations of Student ServicesEM
	Retail Pharmacy: Customer ServiceRS	•	Gifted EducationEM
	Small BusinessMC	•	Instructional AssistanceMC, SM
	Small Business EntrepreneurshipGC, SM,	•	Infant and Toddler Development RS, SM
	GW	•	Reading SpecialistMC
	Small Business ManagementEM, GW	•	Senior Living ManagementRS
	Small Business Start-UpCG, MC, PC, PV,	•	Workforce Development and
	RS, SM		Community Re-EntryRS
	Sports ManagementPV, SC	•	Workforce Development: Trim
	Social Media MarketingCG, MC, SC, SM		PlumbingRS
	Supervision and Management ISM		3
	Supervision and Management IISM	•••	••••••••••••••••
	SupervisionGC	E.	nvironmontal Tachnology
	Technology Support AnalystMC		nvironmental Technology
•	Utilities Customer ServiceRS	•	Environmental Science TechnologyGW
	Water Services: Customer ServiceRS	•	Energy Systems TechnologyRS
		•	Geospatial TechnologiesMC
•••	••••••••••	•	Occupational Safety and Health
	ducation and Training		Technology GW
	ducation and Training	•	Safety, Health and Environmental Studies PV
•	Adult Learning and DevelopmentRS	•	Wastewater TreatmentGW
•	Adult Learning and Coaching	•	Water Resources TechnologiesGW
	DevelopmentRS	•	Water TreatmentGW

Finance	Healthcare InsuranceRS
Banking and FinancePC	Healthcare Regulatory ComplianceGW
Bank Account Management:	 Health Information:
Customer ServiceRS	Long Term Care SettingsPC
Certified Residential AppraiserMC	Health Information TechnologyPC
Licensed Real Estate AppraiserMC	Health Services ManagementGW
Real EstatePC	 Health Unit Coordinating/
Real Estate: PrelicenseMC, SM	Patient Care AssociateGW
Residential Appraisal TraineeMC	Histologic TechnologyPC
nesidential Applaisal Haineeinc	Hospital Central Service TechnologyGW
••••••	Laboratory AssistingPC
	Magnetic Resonance ImagingGW
Government and Public	Medical Laboratory SciencesPC
Administration	Medical AssistingPC
Public AdministrationRS	Medical Coding: Hospital-BasedPC
Public Administration: Legal ServicesRS	Medical Billing and Coding:
Tribal DevelopmentSC	Physician-BasedPC
	Medical RadiographyGW
••••••	 NursingCG, EM, GC, GW, MC, PC,
Hoolth Colonso	PV, SC
Health Science	Nurse AssistingGW, MC, PC, PV, EM
 Advanced Behavioral Health 	Nursing RefresherGW, MC
SciencesGC, SM	PhlebotomyPC, SM
 Advanced Emergency Medical 	Physical Therapist AssistingGW
Technology (Paramedic)PC, PV	Polysomnographic TechnologyGW
Basic Behavioral HealthGC, SM	 Practical NursingCG, GC, GW, MC, PV,
Clinical Dental AssistingRS	SC, EM
 Community Dental Health CoordinationRS 	Recovery SupportSM
 Community Emergency Response 	Respiratory CareGW
Team (CERT): Level IPC	Speech Language Pathology AssistantEM
Computed TomographyGW	Surgical TechnologyGW
 Developmental Disabilities SpecialistGC 	Surgical Technology for the Operating
Diagnostic Medical SonographyGW	Room NurseGW
Dental AssistingPC	
Dental HygienePC, RS, MC	••••••
Dental Assisting TechnologyRS	Heavitelite and Territors
 Diagnostic Medical Sonography: 	Hospitality and Tourism
Vascular TechnologyGW	Airline OperationsRS
 Electroneurodiagnostic 	 Airline Operations: Ground OperationsRS
(END) TechnologyGW	 Airline Operations: Passenger ServicesRS
 Emergency Communications and 	Airline Operations: ReservationsRS
DeploymentPC	 Airline Operations: Reservations and
Fast Track Practical NursingGW	Ticketing ServicesRS

•	Baking and PastryEM, PC		Personal TrainerGC, MC
	Basic Culinary StudiesEM	•	Personal Training Specialist
	Commercial Food PreparationPC		PV, SC, SM
•	Commercial Bakery and Pastry ArtsSC	•	Professional Addictions CounselingRS
•	Culinary ArtsSC	•	Recreation ManagementMC, SC
•	Culinary FundamentalsSC, SM	•	Teaching, Healing, Meditation for
•	Culinary PrinciplesEM		Stress ManagementPV
•	Culinary StudiesEM, PC	•	Yoga InstructionSC
•	Dietetic TechnologyCG, PV	•	Yoga TherapySC
•	Food Service AdministrationPC		3 17
•	Hospitality and Tourism/	•••	••••••
	Golf ManagementSC	In	formation Technology
•	Hospitality and Tourism/		
	Hotel ManagementSC	•	Advanced Computer Usage
•	Hospitality and Tourism/		and ApplicationsRS
	Restaurant ManagementSC	•	Advanced Web DesignerMC
•	Hospitality and Tourism/Spa and Wellness	•	Applications in Geospatial
	Center ManagementSC		TechnologiesMC
•	Hospitality/Hotel ManagementEM	•	Adobe FoundationsGC, MC, SM, PV
•	Hospitality and Tourism/Tourism	•	Adobe Creative Suite in Business:
	Development and ManagementSC		Master Suite Applications SpecialistMC
•	Sustainable Food SystemsMC, RS	•	Adobe Creative Suite in Business: Print
			and Web Applications Specialist MC, PV
•••	•••••••••••	•	Adobe Creative Suite in Business: Production
Н	uman Services		Applications Specialist
	Addictions and Substance Use	•	Business ApplicationsCG
	Disorders Level IRS	•	Business Applications Specialist
	Addictions and Substance Use		Business Office Computer ApplicationsGC
	Disorders Level IIRS	•	
	Addictions and Substance Use Disorders RS	•	Comic and Sequential ArtPC
	Adolescent StudiesPC	•	Computer and Information
	Clinical Research CoordinatingGW		TechnologiesSM
•	Deaf StudiesPC	•	Computer Applications TechnologyEM
•	Exercise Science and	•	Computer Applications: Microsoft Office
	Personal TrainingCG, GC, MC, PV, SC		Specialist/AdvancedMC
•	Family DevelopmentPC	•	Computer Applications: Microsoft Office
•	Family SupportPC		Specialist/BasicMC
•	Group Fitness InstructorMC	•	Computer Hardware and
•	Interpreter PreparationPC		Desktop SupportCG, EM
•	Massage TherapyCG, PC	•	Computer Hardware and
•	Nutrition for Fitness		Network SupportSC
	and WellnessGC, MC, SC	•	Computer Information Systems GC, GW,
			PC, PV

•	Computer Information Systems	•	IT and Power Systems SecurityEM
	TechnologiesSC	•	Linux AssociateCG, EM, MC
•	Computer Information TechnologyPV	•	Linux Networking Administration EM, GC,
•	Computer Networking TechnologyPV		MC
•	Computer ProgrammingMC	•	Linux ProfessionalCG, EM, GC, GW, PC, SC,
•	Computer Systems MaintenancePV		SM, MC, PV
•	Computer TechnologyRS	•	Microsoft Desktop Support
•	Computer Usage and ApplicationsRS		TechnologyEM, GC, PV
•	Data AnalyticsSC	•	Microsoft Networking
•	Digital ArtsMC		TechnologyEM, GC, GW, PV
•	Digital DesignRS	•	Microsoft Technical Specialist EM, GW, PV
•	Digital PhotographyPC	•	Microsoft Server Administration EM, GC
•	Digital Arts: Digital IllustrationMC	•	Microsoft Certified Information
	Digital Arts: Digital PhotographyMC		Technology Professional (MCITP)EM, GW
	Digital Arts: Graphic DesignMC		Administrator
•	Database DevelopmentSC	•	Mobile Apps ProgrammingEM, PV, RS, SM
•	Desktop PublishingEM	•	Multimedia and Business Technology MC
	Digital Cinema ArtsGC	•	Media Arts: Computer Art/Illustration CG, PC
	EditingSC	•	Media Arts: Digital AnimationPC
	eLearning Design SpecialistRS	•	Media Arts: Digital ImagingCG, PC
•	Game TechnologyMC, GC	•	Media Arts: Web DesignPC
•	Heathcare Technology SystemsGC, PV	•	Motion Picture/Television ProductionSC
•	Information SecurityGC	•	Multimedia TechnologyMC
•	Information Security TechnologyGC,	•	Network AdministrationSC
	Information TechnologyCG	•	Network Administration:
	Information Technology: Android/iOS		CISCO Network ProfessionalMC, SM
	ProgrammingSM	•	Network Administration: Microsoft
	Information Technology:		Windows ServerCG, GW, MC, SM
	Cisco NetworkingSM, MC	•	Networking: Design and System Support .RS
	Information Technology:	•	Networking Administration: Cisco CG, EM,
	Computer Applications SpecialistSM		GC, GW, SM, MC
	Information Technology:	•	Networking System AdministrationMC
	Microsoft ProgrammingSM	•	Networking Technology: CiscoCG, EM,
	Information Technology:		GC, GW
	Network ServerSM	•	Oracle Database OperationsCG
	Information Technology:	•	Production FilmSC
	Network SecuritySM	•	Production TelevisionSC
	Information Technology: Programming and	•	ProgrammingRS, EM, SM
	Mobile DevelopmentSM	•	Programming and System
	Information Technology SupportSM		AnalysisCG, EM, GC, MC, PC, PV, SC, SM
	-, · · ·		• • • • • • • • • • • • • • • • • • • •

	Software DevelopmentSC		Industrial Design Technology:
	ScreenwritingSC		Design Specialist: SolidWorksGW
	Technical TheatrePC, SC	•	Lineman Technology Level I
	Web Application DevelopmentSM	•	Lineman Technology Level IIRS
	Web Design	•	Lineman Technology Level IIIRS
	Web Design TechnologiesSC	•	Lineman Technology Level IVRS
	Web Design: User InterfaceRS	•	Machining IMC
	Web DesignerMC	•	Machining IIMC
	Web DeveloperGC, MC, PC, PV, EM	•	Manufacturing Engineering Technology .MC
	Web DevelopmentSC	•	Manufacturing ManagementMC
	Web Development		Manufacturing WeldingMC
	and Graphic DesignSM, EM	•	Micro Circuit Mask DesignMC
	Web Server AdministratorMC	•	Meter TechnologyCG
	Web server / tarrimiserator		Network MaintenanceGC
••••		•	Nuclear Power TechnologyEM
ВЛ	anufacturing		Production TechnologyGW
IVI	anufacturing		Production Technology:
•	Advanced CAM Systems		CNC TechnologyGW
	ProgrammingMC		Production Technology:
•	Automation TechnologyMC	·	Quality AssuranceGW
•	Automation Technology Level IMC		Workforce Development:
•	Automation Technology Level IIMC	·	Electrical Level IRS
•	Automation Technology Level IIIMC		Workforce Development:
•	Applied Electrical TechnologiesRS	•	Electrical Level IIRS
•	CAD ApplicationGC		WeldingMC
•	CAD FundamentalGC	•	weidingivic
•	CNC Machining IMC	••••	•••••••
•	CNC Machining IIMC	R/I	orketing Color & Comics
•	CAD TechnologyGC	IVI	arketing, Sales & Service
•	Computer and Networking TechnologyGC	•	MarketingPC, PV, SC
•	Electro/Mechanical DraftingMC	•	SalesmanshipMC
•	Electromechanical Manufacturing	•••	•••••
	TechnologyMC		
•	Electric Utility TechnologyCG	La	aw, Public Safety, Corrections
•	Electric Utility Design TechnologyCG	&	Security
•	Electrical Technology:		Administration of Justice GC, PC, PV, RS
	Residential WritingGW	•	Administration of Justice-
•	Electromechanical Automation		ComprehensivePC
	TechnologyMC	•	Administration of Justice-
•	Electronics Engineering TechnologyMC		FundamentalsPC
•	Electronics TechnologyMC	•	Administration of Justice StudiesCG, MC,
•	Industrial Design TechnologyGW		SC, GW

•	Advanced CorrectionsRS	 Police Academy Preparation Level ISC
•	Basic CorrectionsRS	Police ScienceMC, SC
•	CorrectionsRS	Public Safety TechnologyRS
•	Correctional StudiesCG	Tribal Court AdvocacySC
•	Crime and Accident Scene	VictimologyMO
	PhotographyPC, SC	•••••
•	Crime Scene InvestigationSC, PC	
•	Crime Scene TechnologySC, PC	Science, Technology,
•	Detention ServicesRS	Engineering & Mathematics
•	Domestic Preparedness and	Aircraft Maintenance TechnologyCO
	Homeland SecurityPC	Aircraft Maintenance
•	Driver OperatorGC, EM, MC, PC, PV	Technology (Part 147)CO
•	Evidence TechnologyPC, EM	Airframe Maintenance (Part 147)CO
•	Emergency Medical Technology CG, GC, MC,	Airway Science Technology,
	PC, PV, SC	Flight EmphasisCO
•	Emergency ManagementMC, PV	BiotechnologyMC
•	Emergency Response and OperationsEM, GC,	Biotechnology and Molecular
	MC, PC, PV, SC	BiosciencesGG
•	Fire AcademyGC, SC	Certified Flight Instructor Instrument
•	Fire Officer LeadershipMC, EM, GC, PC, PV	Airplane RatingCO
•	Fire SciencePV, EM, MC	 Engineering Technology GC, CG, EM, SN
•	Firefighter OperationsGC, MC, PC, PV, EM	Flight TechnologyCO
•	Fingerprint Classification and	NanotechnologyR
	IdentificationPC, SC	Powerplant Maintenance (Part 147)CO
•	Forensic InvestigationMC	
•	Forensic TechnologyPC	•••••••••
•	Forensic Science: Crime LabSC	Transportation, Distribution,
•	Fire InvestigationEM, GC, MC, PC, PV	& Logistics
•	Global CitizenshipMC	Air Conditioning and Electrical
•	Homeland SecurityCG, GW	AccessoriesGV
•	Hazardous Materials ResponsePC	Air ConditioningMG
•	Judicial StudiesMC	Automotive ChassisGG
•	Justice StudiesCG, SC, EM	Automotive Drive TrainsGV
•	Juvenile CorrectionsRS	Automotive Electrical Systems
•	Law Enforcement InvestigatorGC	Automotive Engines and Drive TrainsGO
•	Law Enforcement Technology AcademyRS	Automative Performance TechnologyMG
•	Law EnforcementSC	Automotive Suspension, Steering
•	Law Enforcement Training AcademyGC, CG	and BrakesGV
•	Legal StudiesMC	Automotive TechnologyGC, GV
•	Paramedicine GC PC PV MC	3,
	Paramedicine (*(Dt DV/ M/t	

Automotive Maintenance and	
Light Repair	ЭC
Automotive Engine Performance	ЭC
Automotive Heating, Ventilation and	
Air Conditioning (HVAC)	ЭC
Automotive Technology	ЭC
Brakes, Alignment, Suspension	
and Steering	ΛC
Engine Performance and DiagnosisGW, N	ΛC
Transmissions and Power Trains	ΛC
Workforce Development: Automotive	
Technology Level I	RS
Workforce Development: Automotive	
Technology Level II	RS
	Light Repair



EDUCATIONAL PROGRAMS

EDUCATIONAL PROGRAMS

The Chandler-Gilbert Community College (CGCC) mission statement calls for serving "students and its diverse communities by providing quality life-long learning opportunities in a learner-centered environment through effective, accessible educational programs and activities." CGCC faculty, staff, and administration are committed to providing a "dynamic learning community reflecting collaboration, diversity, and student success through quality, enthusiastic teaching, learning, and serving."

CGCC students have several choices of educational programs to pursue:

- Degrees offered by all Maricopa Community Colleges and found in the <u>Degree Requirements</u> section of this catalog:
 - Associate in Arts; Associate in Arts in Elementary Education; Associate in Arts, Fine Arts in Art, Dance, and Theatre; Associate in Business; and Associate in Science degrees offered by all Maricopa Community Colleges and designed for students who may or may not know their majors but plan to transfer to one of Arizona's public universities.
 - Associate in General Studies degree for students whose educational goals require flexibility and a broader choice of courses.
- Occupational Programs offered at CGCC have several missions: preparing students for employment, upgrading students' existing job skills, and assisting students in career changes.
 Students can choose from several alternatives:
 - 1. Associate in Applied Science degree programs—usually a two-year program of course work.
 - 2. Certificate Programs—a series of courses designed for concentrated proficiency in specialized career fields.
 - 3. Individual courses—designed to meet individual career or personal needs.

Because change is a constant factor in the employment picture, each occupational program has an advisory council. These councils are composed of local leaders in industry and provide valuable assistance to faculty as they continually adjust the courses and programs to meet community needs. With the support of the advisory councils, highly qualified faculty, and upto-date facilities, students are assured quality instruction in their future career field.

Students who choose to transfer to four-year institutions will find that many credits are transferable and provide a beginning foundation for completing a baccalaureate degree. The AAS degrees transfer as a "block" to the Bachelor of Applied Science at Arizona State University (Polytechnic and West campuses), and Northern Arizona University.

• Academic Certificates for students who wish to gain additional expertise in an academic area.

- Special programs include:
 - Continuing Education and Workforce Development
 - English as a Second Language
 - Fitness, Wellness, and Recreation
 - Honors Program
 - Performing Arts

For more information about educational programs, contact the Academic Advisement Center at (480) 732-7317.

OCCUPATIONAL PROGRAMS

Accounting

Accounting

CERTIFICATE OF COMPLETION: CCL 5665

23-26 Credits

PROGRAM CONTACT:

MATT FISHER ~ (480) 857-5538

matt.fisher@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Accounting is for students seeking to gain skills and knowledge in the field of accounting. Possible entry-level jobs for this program include accounting clerk, accounts payable/receivable clerk, claims clerk, credit clerk, full-charge bookkeeper, accounting intern, or comparable positions.

PROGRAM NOTES

Students must earn a grade of "C" or better in all courses required within the program. Consultation with an academic advisor is recommended for course selection. + indicates course has prerequisites and/or corequisites.

REQUIRED COURSES: 23-26 CREDITS

REGUINED COURSES. 20-20 CREDITS		
ACC111	Accounting Principles I (3) AND	
+ACC230	Uses of Accounting	
	Information I (3) AND	
+ACC240	Uses of Accounting	
	Information II (3) OR	
ACC111	Accounting Principles I (3) AND	
+ACC112	Accounting Principles II (3) AND	
+ACC212	Managerial Accounting (3) OR	
ACC211	Financial Accounting (3) AND	

+ACC212	Managerial Accounting (3) 6-9
ACC105	Payroll, Sales and
	Property Taxes3
+ACC115	Computerized Accounting2
CIS114DE	Excel Spreadsheet3
CIS105	Survey of Computer
	Information Systems3
GBS151	Introduction to Business3
GBS205	Legal, Ethical and Regulatory
	Issues in Business3

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Accounting

ASSOCIATE IN APPLIED SCIENCE: AAS 3149

60-65 Credits

PROGRAM CONTACT:

MATT FISHER ~ (480) 857-5538

matt.fisher@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Accounting is one of several options for students seeking to gain skills and knowledge in the field of accounting. Possible entry-level jobs for this program include accounting clerk, accounts payable/receivable clerk, claims clerk, credit clerk, full-charge bookkeeper, accounting intern, or comparable positions.

PROGRAM NOTES

Students must earn a grade of "C" or better in all courses required within the program. Consultation with an academic advisor is recommended for course selection.

+ indicates course has prerequisites and/or corequisites.

PREREQUISITES: 3 CREDITS		GBS207	Business Law
+CRE101	College Critical Reading and		(General Corporate)3
	Critical Thinking (3) OR	+GBS220	Quantitative Methods
Equivalent as	indicated by assessment3		in Business3
REQUIRED C	COURSES: 29-32 CREDITS	GENERAL ED	DUCATION: 22-24 CREDITS
ACC111	Accounting Principles I (3) AND		
+ACC230	Uses of Accounting	CORE: 12-14	CREDITS
	Information I (3) AND	FIDST VEAD	COMPOSITION
+ACC240	Uses of Accounting	_	
	Information II (3) OR	+ENG101	First-Year Composition (3) OR
ACC111	Accounting Principles I (3) AND	+ENG107	First-Year Composition for
+ACC112	Accounting Principles II (3) AND	FNC102	ESL (3) AND
+ACC212	Managerial Accounting (3) OR	+ENG102	First-Year Composition (3) OR
ACC211	Financial Accounting (3) AND	+ENG108	First-Year Composition
+ACC212	Managerial Accounting (3) 6-9		for ESL (3)6
ACC105	Payroll, Sales and	ORAL COMM	UNICATION
	Property Taxes3	Any approved	general education course in the
+ACC115	Computerized Accounting2		nication area3
ACC121	Income Tax Preparation (3) OR		
+ACC221	Tax Accounting (3)3	CRITICAL RE	ADING
CIS114DE	Excel Spreadsheet3	Met by CRE10	1, College Critical Reading and
CIS105	Survey of Computer	Critical Thinki	ng OR Equivalent as indicated by
	Information Systems3	assessment in	Program Prerequisites area0
GBS151	Introduction to Business3		
GBS205	Legal, Ethical and Regulatory	MATHEMATIC	
	Issues in Business3	+MAT120	Intermediate Algebra (5) OR
+GBS233	Business Communication3	+MAT121	Intermediate Algebra (4) OR
		+MAT122	Intermediate Algebra (3) OR
	ELECTIVES: 9 CREDITS		Satisfactory completion of a
ACC++++	Any ACC Accounting course(s)		higher level mathematics
	except courses used to satisfy		course3-5
61644-614	Required Courses area9	DISTRIBUTIO	ON: 10 CREDITS
CIS117CM	Microsoft Access:	Diomisoni	711 10 OKES110
656444	Database Management3	HUMANITIES	S AND FINE ARTS
GBS110	Human Relations in Business	Any approved	general education course in
	and Industry (3) OR	the Humanitie	es and Fine Arts area3
MGT251	Human Relations in		
CDC121	Business (3)3	SOCIAL AND	BEHAVIORAL SCIENCES
GBS131	Business Calculations3	ECN211	Macroeconomic
			Principles (3) OR

ECN212 Microeconomic
Principles (3) OR
SBU200 Society and Business (3)3

NATURAL SCIENCES

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

.....

Administration of Justice Studies

Administration of Justice Studies

ASSOCIATE IN APPLIED SCIENCE: AAS 3012

62 Credits

PROGRAM CONTACT:

LEON KUTZKE ~ (480) 732-7058

leon.kutzke@cqc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Administration of Justice Studies program is designed to prepare students for careers within the criminal justice system including law enforcement, the courts, probation, parole, corrections, and social services agencies that support the criminal justice system. The program is interdisciplinary in nature and provides students with a broad knowledge of the criminal justice system, its organizational components and processes, and its legal and public policy contexts.

Students may select one of four Certificate of Completion (CCL) programs to complete the AAS degree: Correctional Studies, Forensic

Science, Homeland Security, or Justice Studies.

PROGRAM NOTES

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

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

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 33 CREDITS

The required courses below comprise a group of Program Common Core courses that are required for the AAS degree in addition to completion of one of four certificate programs. Some certificates may contain additional course requirements.

AJS119	Computer Applications in
	Justice Studies3
AJS200	Current Issues in
	Criminal Justice3
AJS225	Criminology3
AJS258	Victimology and
	Crisis Management3
AJS270	Community Relations3

Certificate of Completion in
Correctional Studies (5776)18 Credits
Certificate of Completion in
Forensic Science (5326)18 Credits
Certificate of Completion in
Homeland Security (5322)18 Credits
Certificate of Completion in
Justice Studies (5327)18 Credits

RESTRICTED ELECTIVES: 4-7 CREDITS

Students must select credits in the Restricted

Electives area to earn a total of 62 credits
required for the AAS in Administration of
Justice Studies degree. Selected courses will
not apply in both the Required Courses area
and the Restricted Electives area.

AJS+++++ Any Administration of Justice Studies courses...... 4-7

GENERAL EDUCATION: 22-25 CREDITS

CORE: 12-15 CREDITS

FIRST-YEAR COMPOSITION

+ENG101	First-Year Composition (3) AND	
+ENG102	First-Year Composition (3) OR	
+ENG107	First-Year Composition	
	for ESL (3) AND	
+ENG108	First-Year Composition	
	for ESL (3)	6

ORAL COMMUNICATION

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

CRITICAL READING

+CRE101	College Critical Reading and
	Critical Thinking (3) OR
Equivalent as in	ndicated by assessment 0-3

MATHEMATICS

Any approved general education course in the Mathematics area......3

DISTRIBUTION: 10 CREDITS

HUMANITIES AND FINE ARTS

AJS123 Ethics and the Administration of Justice......3

SOCIAL AND BEHAVIORAL SCIENCES

AJS101 Introduction to

Criminal Justice.....3

NATURAL SCIENCES

Any approved	l general	educati	ion course	in the
Natural Science	ces area	•••••	••••••	4

•••••••••••

Correctional Studies

CERTIFICATE OF COMPLETION: CCL 5776

18 Credits

PROGRAM CONTACT:

LEON KUTZKE ~ (480) 732-7058

leon.kutzke@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Correctional Studies program is designed for students intending to pursue careers in various correctional components of the justice system, including parole, probation, jail, and prisons. Focus is broader learning about the correction function in the context of overall administration of justice system.

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.

REQUIRED COURSES: 18 CREDITS

AJS109	Substantive Criminal Law	3
AJS124	Correctional Institutions	3
AJS212	Juvenile Justice Procedures	3
AJS240	The Correction Function	3
AJS250	Correctional Administration	3
AJS275	Criminal Investigation I	3

Forensic Science

CERTIFICATE OF COMPLETION: CCL 5326

18 Credits

PROGRAM CONTACT:

LEON KUTZKE ~ (480) 732-7058

leon.kutzke@cqc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Forensic Science is designed to provide students with the technical skills and knowledge necessary to evaluate and process a crime scene for items of evidentiary value, document crime scene evidence, and collect and retain items consistent with forensic procedures.

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.

REQUIRED COURSES: 18 CREDITS

Rules of Evidence3
Evidence Technology/
Fingerprints3
Criminalistics:
Physical Evidence3
Criminalistics:
Biological Evidence3
Police Photography3
Criminal Investigation I3

Homeland Security

CERTIFICATE OF COMPLETION: CCL 5322

18 Credits

PROGRAM CONTACT:

LEON KUTZKE ~ (480) 732-7058

leon.kutzke@cqc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Homeland Security program is designed to provide students with the knowledge and skills needed to conduct a homeland security evaluation and to assess, investigate and respond to terrorism incidents. It also provides criminal justice practitioners with an opportunity for academic growth and the development of specialized skills in homeland security.

PROGRAM NOTES

A IC100

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

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 18 CREDITS

AJS 109	Substantive Criminal Law	3
AJS/DPR/		
FSC139	Emergency Response to	
	Terrorism	3
AJS195	International and Domestic	
	Terrorism	3
AJS230	The Police Function	3
AJS260	Procedural Criminal Law	3
AJS275	Criminal Investigation I	3

Cubetantine Criminal Law

Justice Studies

CERTIFICATE OF COMPLETION: CCL 5327

18 Credits

PROGRAM CONTACT:

LEON KUTZKE ~ (480) 732-7058

leon.kutzke@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion in Justice Studies is designed to provide the student with a broad understanding of the criminal justice system and its primary components: law enforcement, the courts, and corrections.

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.

REQUIRED COURSES: 18 CREDITS

AJS109	Substantive Criminal Law3
AJS212	Juvenile Justice Procedures3
AJS230	The Police Function3
AJS240	The Correction Function3
AJS260	Procedural Criminal Law3
AJS275	Criminal Investigation I3

Law Enforcement Training Academy

CERTIFICATE OF COMPLETION: CCL 5485

30 Credits

PROGRAM CONTACT:

MARGARET ZUCCARO ~ (480) 988-8755

margaret.zuccaro@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Law **Enforcement Training Academy is designed** for students wishing to pursue a law enforcement career as a law enforcement officer. The student will develop skills in eight functional areas: Introduction to Law Enforcement, Law and Legal Matters, Patrol Procedures, Traffic Control, Crime Scene Management, Community and Police Relations, Report Writing, and Police Proficiency Skills. At the conclusion of this program the student will have completed all requirements of the Arizona Peace Officer Standards and Training (AzPOST) Board standards established to certify police officers in the State of Arizona.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. = 2.00.

ADMISSION CRITERIA

Must meet AzPOST minimum requirements for a law enforcement officer and meet any physical requirements by the Academy Director.

REQUIRED COURSES: 30 CREDITS

+AJS/LEO102 Peace Officer Certification I......17 +AJS/LEO202 Peace Officer Certification II13

Aircraft Flight Technology

Airway Science Technology, Flight Emphasis

ASSOCIATE IN APPLIED SCIENCE: AAS 3707

61-67.5 Credits

PROGRAM CONTACT:

BASHIR KHALIL ~ (480) 988-8112

bashir.khalil@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Airway Science Technology, Flight Emphasis program is designed to prepare students to apply technical knowledge and skills to the flying of commercial, agricultural, public service, corporate, or private aircraft, and to prepare students to sit for the following Federal Aviation Administration (FAA) written and practical examinations:

Track I: Commercial Pilot Certificate with Single Engine Airplane Land Rating; Instrument Rating; and the Multiengine Rating as well as the Flight Instructor Certificate with the Single Engine Airplane Land Rating.

Track II: Commercial Pilot Certificate with Helicopter Rating; Instrument Rating as well as the Flight Instructor Certificate with the Helicopter Rating.

Track III: Commercial Pilot Certificate with Single Engine Airplane Land Rating; Instrument Rating; and the Multiengine Rating as well as the Flight Instructor Certificate with the Single Engine Airplane Land Rating. Students will also have experience in the actual or simulated operations of a small Unmanned Aircraft Systems (UAS) as permitted by Federal Regulations.

JOB DESCRIPTION

The Associate in Applied Science in Airway Science Technology, Flight Emphasis program is designed to prepare students with the required Federal Aviation Administration certificates for initial employment as aircraft pilots in a wide variety of entry-level, flightrelated occupations. Depending on which track students select, such occupations may include flight instructor, banner tow pilot, jump plane pilot, corporate transportation, mineral exploration and production, public service, etc. In some instances, additional specialized training will be required. Students aspiring to employ with airlines can elect to use their flight instructor certificate to help build flight time in an economical manner.

JOB OPPORTUNITIES

While the aviation industry is cyclic, affected by both economic and military implications,

Courses available at CGCC are listed in the Course Descriptions section of this document. General Education Requirements are also listed. For the most current information regarding degree requirements log on to www.maricopa.edu/academic/ccta.

indicators point to an increase in pilot hiring through 2030. Job mobility within the aviation industry increases as flight experience increases. The experienced pilot who demonstrates quality flight techniques, willingness to learn, organizational skills, reliability, and good communication skills will find opportunities to advance into larger aircraft operations, or other positions within the industry such as management, business owner, sales, corporate jet operator, or systems trainer.

FLIGHT POLICIES

Light and simulator training costs are the responsibility of the student. They are determined on an hourly basis for aircraft and flight instruction, and are in addition to tuition, fees, and other registration expenses. Once students have been accepted into the CGCC Airway Science, Flight Emphasis program, they will not receive college credit for flight instruction received at flight schools other than the school or schools with which Maricopa County Community College District has currently contracted for such instruction.

Ground school courses must be taken concurrently with the appropriate flight courses. Attendance is mandatory in the aviation ground school courses in accordance with Federal Aviation Regulation Part 141, Appendices A and D. Failure to meet these attendance requirements will disqualify the student for FAA pilot certification.

TRANSFER OF PILOT RATINGS

Students with a Private Pilot Certificate obtained without college credit must complete the flight lessons contained in the Federal Aviation Regulations Part 141 Private Pilot Test Course before enrolling in any 200-level ground or flight courses.

Students holding Commercial Pilot or Flight Instructor Certificates obtained without college credit are required to take the appropriate ground school courses, and complete the flight lessons contained in the Federal Aviation Regulations Part 141 Commercial Pilot Test Course.

Aviation and related courses from other colleges and universities will not automatically transfer to CGCC. All aviation transfer courses, flight or non-flight, are reviewed by the Aviation Division for transferability. Students with pilot certification obtained with college credit at other institutions must demonstrate proficiency of each certificate and associated ratings before credit will be accepted to satisfy CGCC curriculum requirements. In all cases, it is the responsibility of the student to initiate the process.

MEDICAL CERTIFICATES

A current medical certificate is required for all students planning to begin flight training. The physical examination must be performed by a medical doctor who is a designated FAA Medical Examiner. Students are advised to obtain their medical certificates well in

advance of beginning the flight program. This will ensure that medical problems or physical limitations that may alter career plans can be addressed before entering flight courses.

There are three types of medical certificates
- Class III, Class II, and Class I. Students are
advised to obtain a Class I certificate if they
are planning a career in professional flight.
Students must have at least a Class II medical
before beginning 200-level flight courses.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A = 2.50.

ADMISSION CRITERIA

Students must apply for acceptance into the Associate in Applied Science in Airway Science Technology, Flight Emphasis program before enrolling in any 200-level courses by completing an application available from the Aviation Division.

Due to the International Traffic in Arms Regulations requirements surrounding UAS Operations, certain courses, materials, and instruction may be restricted to United States Citizens only.

PROGRAM PREREQUISITES: 0-15 CREDITS

Students must consult with a program advisor as the program prerequisites may be waived as requirements to the program for

those students who have FAA Private Pilot Certificates and/or have course equivalents as indicated by assessment.

indicated by assessment.		
+CRE101	College Critical Reading and Critical Thinking (3) OR	
Equivalent as i	ndicated by assessment 0-3	
+MAT120	Intermediate Algebra (5) OR	
+MAT121	Intermediate Algebra (4) OR	
+MAT122	Intermediate Algebra (3) OR	
Equivalent as i	ndicated by assessment OR	
Satisfactory co	mpletion of a higher-level	
mathematics c	ourse0-5	
Track I: Multier	ngine Aircraft	
+AET107	Private Pilot Ground School	
	(5) AND	
+AET110	Private Pilot Flight (2) OR	
A division/program approved FAA Pilot		
Certificate (0)	0-7	
Track II: Helicop	oters	
+AET107HH	Private Pilot Ground School:	
	Helicopter (5) AND	
+AET110HH	Private Pilot Flight:	
	Helicopter (2) OR	
FAA Private Pilo	ot Certificate (0) 0-7	
Track III: UAS a	nd Aviation Public Service	
+AET107	Private Pilot Ground	
	School (5) AND	
+AET110	Private Pilot Flight (2) OR	
A division/prog	gram approved FAA Pilot	
Certificate (0)	0-7	

REQUIRED COURSES: 38-48.5 CREDITS

Students must select one (1) of three (3) tracks:

Track I: Multi-E	ngine AircraftCre	dits: 45.5
AET115	Aviation Meteorology	3
+AET203	Basic Airplane Systems.	3

+AET205	Aircraft Structures, Systems,	+AET227HH	Certified Flight Instructor:
	and Maintenance4		Helicopter Ground School4
+AET207	Attitude Instruments and	+AET230HH	Certified Flight Instructor:
	Navigation3		Helicopter1
+AET210	Instrument Commercial	+AET257	Readings in Aviation3
	Flight I2	CIS105	Survey of Computer
+AET213	Aerodynamics and		Information Systems3
	Performance3	Track III: LIAS a	and Aviation Public Service
+AET215	Aircraft Powerplants4	Track III. OAS	Credits: 48.5
+AET217	Instrument Procedures3	AJS101	Intro. to Criminal Justice3
+AET220	Instrument Commercial	A55101 AET115	
	Flight II2	ALTTIS AJS/DPR/	Aviation Meteorology3
+AET225	Advanced Aircraft Systems4	FSC147	Emergency Preparedness3
+AET227	Certified Flight Instructor:	AJS230	The Police Function3
	Airplane, Single Engine Land	+AET203	Basic Airplane Systems3
	Ground School5	+AET203 +AET207	Attitude Instruments and
+AET230	Certified Flight Instructor:	*AL1207	Navigation3
	Airplane, Single Engine Land1	+AET208	Aviation Safety3
+AET237	Multiengine Airplane Pilot	+AET210	Instrument Commercial
	Ground School2	+ALIZIO	Flight I2
+AET240	Multi-Engine Airplane	+AET213	Aerodynamics and
	Pilot Flight0.5	TALIZIS	Performance3
+AET257	Readings in Aviation3	+AET217	Instrument Procedures3
CIS105	Survey of Computer	+AET220	Instrument Commercial
	Information Systems3	ALIZZO	Flight II2
Track II: Helico	pters Credits: 38	+AET226	Introduction to Unmanned
AET115	Aviation Meteorology3		Aircraft Systems Operation2
AETOOSHU		+AET227	Certified Flight Instructor:
+AET203HH	Basic Helicopter Systems2		Airplane, Single Engine Land
+ AET205	Aircraft Structures, Systems,		Ground School5
A F.T.2071 II I	and Maintenance4	+AET230	Certified Flight Instructor:
+AET207HH	Attitude Instruments and		Airplane, Single Engine Land1
A ET24 OLUL	Navigation: Helicopter2	+AET228	Public Safety Aviation3
+AET210HH	Instrument Flight: Helicopter2	+AET260	Public Safety Aviation
+AET213HH	Aerodynamics and		Applications in Unmanned
A ET 2.1 E	Performance: Helicopter2		Aircraft Systems Flight Lab1
+AET215	Aircraft Powerplants4	+AET229	Crew Resource Management3
+AET217HH	Instrument Procedures:	+AET237	Multi-Engine Airplane Pilot
AETOOULL	Helicopter2		Ground School2
+AET220HH	Commercial Flight: Helicopter2	+AET240	Multi-Engine Airplane
+AET225	Advanced Aircraft Systems4		Pilot Flight0.5

 $Courses \ available \ at \ CGCC \ are \ listed \ in the \ Course \ Descriptions \ section \ of this \ document. \ General \ Education \ Requirements \ are \ also \ listed.$ For the most current information regarding degree requirements log on to $\underline{www.maricopa.edu/academic/ccta}.$

RESTRICTED ELECTIVES: NONE		
GENERAL E	DUCATION: 23-24 CREDITS	
CORE: 14 CF	REDITS	
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	
FNC111	for ESL (3) OR	
+ENG111	Technical and Professional	
	Writing (3)6	
ORAL COMM	IUNICATION	
+COM225	Public Speaking3	
CRITICAL READING Met by CRE101 in Program Prerequisites area0		
MATHEMATICS		
+MAT187	Precalculus (5) OR	
Equivalent as indicated by assessment OR		
Satisfactory completion of a higher level		
mathematics course5		
DISTRIBUTION: 9-10 CREDITS		
HUMANITIES AND FINE ARTS		
Any approved general education course in the		
Humanities and Fine Arts area2-3		
SOCIAL AND BEHAVIORAL SCIENCES		
ECN212	Microeconomic Principles3	
NATURAL SCIENCES		
+PHY111 General Physics I4		

Certified Flight Instructor Instrument Airplane Rating

CERTIFICATE OF COMPLETION: CCL 5825N

4 Credits

DIVISION CHAIR:

ERIC SNYDER ~ (480) 988-8127

eric.snyder@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Certified Flight Instructor Instrument Airplane Rating program in Airway Science Technology, Flight Emphasis is designed to prepare students to apply technical knowledge and skills to the flying of airplanes as a Certified Flight Instructor-Instrument Rated, and to prepare students to sit for the Federal Aviation Administration (FAA) written and practical examinations.

PROGRAM NOTES

Students must earn a grade of "C" or better in all courses within the program. This program is not eligible for Title IV Federal Financial Aid. + indicates course has prerequisites and/or corequisites.

REQUIRED COURSES: 4 CREDITS

+AET258	Certified Flight Instructor:	
	Instrument Airplane Ground	
	School	3
+AET270	Certified Flight Instructor:	
	Instrument Airplane Flight	1

Flight Technology

CERTIFICATE OF COMPLETION: CCL 5707

29.5 Credits

PROGRAM CONTACT:

BASHIR KHALIL ~ (480) 988-8112

bashir.khalil@cqc.edu

PROGRAM DESCRIPTION

The Certificate of Completion in Flight
Technology curriculum is designed to
prepare students to apply technical
knowledge and skills to aircraft flying
and to prepare them to sit for the Federal
Aviation Administration (FAA) written and
practical examinations for Commercial Pilot
Certificate with Single Engine Airplane, Land
Rating, Instrument Rating, and Multiengine
Rating. Instruction includes aircraft design,
systems, flight operations and procedures,
radio communication and navigation,
and governmental rules and regulations
pertaining to aircraft operations.

JOB DESCRIPTION

This program is designed to prepare students with the required Federal Aviation Administration certificates for initial employment as airplane pilots in a wide variety of entry-level, flight-related occupations such as flight instructor, banner tow pilots, jump plane pilots, etc. In some instances, additional specialized training will be required.

FLIGHT POLICIES

Flight and simulator training costs are the

responsibility of the student. They are determined on an hourly basis for aircraft and flight instruction, and are in addition to tuition, fees, and other registration expenses. Once students have been accepted into the CGCC Flight Technology program, they will not receive college credit for flight instruction received at flight schools other than the school or schools with which Maricopa County Community College District has currently contracted for such instruction.

Ground school courses must be taken concurrently with the appropriate flight courses.

Attendance is mandatory in the aviation ground school courses in accordance with Federal Aviation Regulation Part 141, Appendices A and D. Failure to meet these attendance requirements will disqualify the student for FAA pilot certification.

TRANSFER OF PILOT RATINGS

Students with a Private Pilot Certificate obtained without college credit must demonstrate proficiency and knowledge before enrolling in any 200-level ground or flight courses.

Students holding Commercial Pilot or Flight Instructor Certificates obtained without college credit are required to take the appropriate ground school courses, and complete the flight lessons contained in the Federal Aviation Regulations Part 141 Commercial Pilot Test Course.

Aviation and related courses from other colleges and universities will not

automatically transfer to CGCC. All aviation transfer courses, flight or nonflight, are reviewed by the Aviation Division for transferability. Students with pilot certificates obtained with college credit at other institutions must demonstrate proficiency of each certificate and associated ratings before credit will be accepted to satisfy CGCC curriculum requirements.

In all cases, it is the responsibility of the student to initiate the process.

MEDICAL CERTIFICATES

A current medical certificate is required for all students planning to begin flight training. The physical examination must be performed by a medical doctor who is a designated FAA Medical Examiner. Students are advised to obtain their medical certificates well in advance of beginning the flight program. This will ensure that medical problems or physical limitations that may alter career plans can be addressed before entering flight courses.

There are three types of medical certificates— Class III, Class II, and Class I. Students are advised to obtain a Class I certificate if they are planning a career in professional flight. Students must have at least a Class II medical before beginning 200-level flight courses.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. = 2.50.

ADMISSION CRITERIA

Students must apply for acceptance into the Flight Technology program before enrolling in any 200-level flight courses by completing an application available from the Aviation Division.

PROGRAM PREREQUISITES: 13-15 CREDITS

Students must consult with a program advisor as the program prerequisites may be waived as requirements to the program for those students who have FAA Private Pilot Certificates and/or have course equivalents as indicated by assessment.

+AET107	Private Pilot Ground	
	School (5) AND	
+AET110	Private Pilot Flight (2) OR	
	FAA Private Pilot Certificate	7
+CRE101	College Critical Reading and	
	Critical Thinking (3) OR	
Equivalent as in	ndicated by assessment	3
+MAT120	Intermediate Algebra (5) OR	
+MAT121	Intermediate Algebra (4) OR	
+MAT122	Intermediate Algebra (3) OR	
Equivalent as indicated by assessment OR		
Satisfactory completion of a higher level		
mathematics course 3-		

REQUIRED COURSES: 29.5 CREDITS

AET115	Aviation Meteorology3
+AET203	Basic Airplane Systems2
AET205	Aircraft Structures, Systems
	and Maintenance4
+AET207	Attitude Instruments and
	Navigation2
+AET210	Commercial Pilot Flight I2
+AET213	Aerodynamics and
	Performance2
+AET215	Aircraft Powerplants4

+AET217	Instrument Procedures	2
+AET220	Commercial Pilot Flight II	2
+AET225	Advanced Aircraft Systems	4
+AET237	Multi-Engine Airplane Pilot	
	Ground School	2
+AET240	Multi-Engine Airplane	
	Pilot Flight	0.5

Aircraft Maintenance Technology

Aircraft Maintenance Technology

ASSOCIATE IN APPLIED SCIENCE: AAS 3670

89-92 Credits

DIVISION CHAIR:

ERIC SNYDER ~ (480) 988-8127

eric.snyder@cgc.edu

PROGRAM DESCRIPTION

The Aircraft Maintenance Technology (AMT) certificate and degree programs are designed to prepare students for licensure as certified airframe, powerplant, or airframe and powerplant (A&P) technicians and for employment in entry-level positions in the aircraft maintenance field.

PART 147: The Part 147 curriculum meets
Federal Aviation Administration (FAA)
requirements for the number of hours of
instruction and for the level and type of
competency expected of the students in
general, airframe, and powerplant subject
areas. Completion of the appropriate
certificate programs may lead to an Associate
in Applied Science in Aircraft Maintenance

Technology degree.

The Certificate of Completion in Airframe Maintenance (Part 147) is designed for individuals who hold an FAA Powerplant Certificate or who desire to specialize in areas of structural maintenance or repair. This Ccertificate provides the necessary knowledge to continue into areas of avionics, composites, or heavy structures specializations. This program of study normally requires two semesters to complete if the program prerequisites have been met.

The Certificate of Completion in Powerplant Maintenance (Part 147) is designed for individuals who hold an FAA Airframe Certificate or who desire to specialize in areas of engine maintenance or repair. This program of study normally requires two semesters to complete if the program prerequisites have been met.

The Certificate of Completion in Aircraft
Maintenance Technology (Part 147) is
designed for individuals who want to prepare
for FAA Airframe and Powerplant Certificates
but are limited by funding agencies to a single
continuing program of study. This program
of study normally requires four semesters to
complete if the program prerequisites have
been met.

The program prerequisites normally require one or more semesters to complete.

The Associate in Applied Science in Aircraft Maintenance Technology degree combines the technical aspects of the certificate programs with selected general education courses in the areas of English, math, reading, communications, humanities, and physics.

PART 65: The Part 65 curriculum is designed for those students who wish to gain specific knowledge and skills in the aircraft maintenance field or are pursuing Federal Aviation Administration certification under Federal Aviation Regulation, Part 65.77. Students benefiting from these courses would include aircraft maintenance apprentices, pilots, kit aircraft builders, aircraft enthusiasts, and past and current military personnel who have worked in aircraft maintenance. Completion of the Part 65 courses may lead to an Associate in Applied Science in Aircraft Maintenance Technology degree. Students wishing to enroll in the Part 65 courses must have the permission of the Department or Division and will be accepted on a first-come, first-served, space-available basis only.

JOB DESCRIPTION

Aviation maintenance technicians inspect the engines, landing gear, instruments, pressurized sections, accessories, and other parts of the aircraft, and perform necessary maintenance. Technicians use precision instruments and non-destructive inspection equipment. They also repair sheet metal or composite surfaces and check for corrosion, distortion, and cracks in the aircraft structure. After completing repairs, mechanics must test them to ensure that they work properly.

Aviation maintenance technicians must perform careful and thorough work requiring

a high degree of mechanical aptitude.
Frequently, they must lift or pull as much as 50 pounds. They often stand, lie, or kneel in awkward positions and occasionally must work in precarious positions on scaffolds or ladders. Noise and vibration are common when testing engines. Aviation maintenance technicians generally work 40 hours a week on 8-hour shifts around the clock.

Aviation maintenance technicians who work on civilian aircraft are certificated by the Federal Aviation Administration (FAA) as airframe mechanic, powerplant mechanic, or combination airframe and powerplant (A&P) mechanics who can work on nearly any part of the plane. Although a few people become Aviation maintenance technicians through on-the-job training, most learn their job in one of the schools certified by the FAA under Federal Aviation Regulation Part 147. FAA standards require certificated schools offer students at least 1,900 class hours.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. = 2.00.

ADMISSION CRITERIA

Students wishing to enroll in this Part 147 Certificate program must complete an application process before being officially accepted into the program.

PROGRAM PREREQUISITES: 28-29 CREDITS		OR	
+ENG091	Fundamentals of Writing (3) OR	Certificate of 0	Completion in Aircraft
	Equivalent as indicated by	Maintenance ¹	Technology (Part 147) (65)65
	assessment3	OR	
+MAT091	Introductory Algebra (4) OR	+AMT220AA	Fundamentals of Aircraft Wood
+MAT092	Introductory Algebra (3) OR		Structures, Covering and
	Equivalent as indicated by		Finishing and Bonded
	assessment 3-4		Structures: Part 653
+RDG091	College Reading Skills I (3) OR	+AMT222AA	Atmosphere Control, Fire
	Equivalent as indicated by		Detection, Ice and Rain
	assessment3		Protection Systems: Part 654
AND		+AMT224AA	Aircraft Sheet Metal: Part 655
+AMT124	Aircraft Forms and Regulations,	+AMT226AA	Aircraft Landing Gear, Hydraulic,
	Weight and Balance, Drawings,		Pneumatic, Fuel, Position and
	and Ground Operations (5)		Warning Systems: Part 657
AND		+AMT228AA	Aircraft Electrical Systems,
+AMT126	Fundamentals of Mathematics		Instruments, Fuel Indicating,
	and Electricity (9) AND		Communication and
+AMT128	Fundamentals of Aviation		Navigation Systems: Part 657
	Physics, Corrosion Control,	+AMT230AA	Airframe Assembly, Inspection,
	Materials and Processes, Fluid		and Welding: Part 656
	Lines and Fittings (5) OR	+AMT263	Aircraft Turbine Engines5
+AMT124AA	Aircraft Forms and Regulations,	+AMT264AA	Aircraft Reciprocating Engines:
	Weight and Balance, Drawings,		Part 657
	and Ground Operations:	+AMT266	Engine Fuel System, Fuel
	Part 65 (5) AND		Metering and Induction
+AMT126AA	Fundamentals of Mathematics		System6
	and Electricity: Part 65 (9) AND	+AMT268AA	Engine Electrical, Ignition and
+AMT128AA	Fundamentals of Aviation		Starter Systems: Part 656
	Physics, Corrosion Control,	+AMT270AA	Engine Instruments, Fire
	Materials and Processes, Fluid	Protection	
	Lines and Fittings: Part 65 (5) 19		and Lubrication, Cooling and
AND			Exhaust Systems: Part 655
Permission of the Department or Division.		+AMT272	Propeller Systems and Engine
DECITIOED C	OURSES: 65 CREDITS		Inspections4
	Completion in Airframe	CENEDAL F	NICATION, 24 27 CREDITS
Maintenance (Part 147) (32)		GENERAL EL	DUCATION: 24-27 CREDITS
ivialitieriance (Part 147) (52)			

AND

Certificate of Completion in Powerplant

Maintenance (Part 147) (33)

CORE: 15-17 CREDITS

FIRST-YEAR	RCOMPOSITION	Aircraft Maintenan
+ENG101	First-Year Composition (3) OR	Technology (Part 1
+ENG107	First-Year Composition	
	for ESL (3) AND	CERTIFICATE OF COMP
+ENG102	First-Year Composition (3) OR	CCL 5670
+ENG108	First-Year Composition	65 Credits
	for ESL (3) OR	DIVISION CHAIR:
+ENG111	Technical Writing (3)6	ERIC SNYDER ~ (480) 988-8127
ORAL COM	MUNICATION	eric.snyder@cgc.edu
Any approve	ed general education course in the	
Oral Commu	unication area3	PROGRAM DESCRIPTION
CRITICAL R		The Certificate of Completion Maintenance Technology (Pa
+CRE101	College Critical Reading and	is designed for individuals wh
Facility to	Critical Thinking (3) OR	prepare for the FAA Airframe
Equivalent a	s indicated by assessment3	Certificates but are limited by
MATHEMAT	ICS	agencies to a single continuir
+MAT120	Intermediate Algebra (5) OR	of study. This program of study
+MAT122	Intermediate Algebra (3) OR	,
Equivalent as indicated by assessment 3-5		requires four semesters to co
Equivalent	is maleated by assessment 3 3	prerequisites have been met.
DISTRIBUT	ION: 9-10 CREDITS	The program prerequisites no
DIOTRIDOT	ION. 0 TO ONEDITO	one or more semesters to cor
HUMANITIE	S AND FINE ARTS	
Any approve	ed general education course in the	PROGRAM NOTES
Humanities	and Fine Arts area2-3	Students must earn a grade o
		all courses within the prograr
	D BEHAVIORAL SCIENCES	
Any approved general education course in the		+ indicates course has prerequ
Social and B	ehavioral Sciences area3	corequisites.
NIATURAL C	OLEMOTO	Overall program minimum G.
NATURAL S		
+PHY101	Introduction to Physics4	ADMICCION CDITEDIA

ce 47)

LETION:

N

in Aircraft rt 147) Program no want to and Powerplant funding ng program dy normally mplete if the

ormally require mplete.

of "C" or better in n.

uisites and/or

P.A. = 2.00.

ADMISSION CRITERIA

Students wishing to enroll in this Part 147 Certificate program must complete an application process before being officially accepted into the program.

PROGRAM PREREQUISITES: 28-29 CREDITS		+AMT230	Airframe Assembly,
+ENG091	Fundamentals of Writing (3) OR		Inspection, and Welding6
	Equivalent as indicated by	+AMT263	Aircraft Turbine Engines5
	assessment3	+AMT264	Aircraft Reciprocating Engines7
+MAT091	Introductory Algebra (4) OR	+AMT266	Engine Fuel System, Fuel
+MAT092	Introductory Algebra (3) OR		Metering and Induction
	Equivalent as indicated by		System6
	assessment 3-4	+AMT268	Engine Electrical, Ignition
+RDG091	College Reading Skills I (3) OR		and Starter Systems6
	Equivalent as indicated by	+AMT270	Engine Instruments, Fire
	assessment3		Protection and Lubrication,
AND			Cooling and Exhaust
+AMT124	Aircraft Forms and Regulations,		Systems5
	Weight and Balance, Drawings,	+AMT272	Propeller Systems and
	and Ground Operations5		Engine Inspections4
+AMT126	Fundamentals of Mathematics	••••••	•••••••
	and Electricity9	Airframe	Maintenance
+AMT128	Fundamentals of Aviation	(Part 147)	
	Physics, Corrosion Control,	(1 010 147	

AND

Permission of the Department or Division.

Materials and Processes, Fluid

Lines and Fittings.....5

REQUIRED COURSES: 65 CREDITS

+AMT220	Fundamentals of Aircraft Wood
	Structures, Covering and
	Finishing and Bonded
	Structures3
+AMT222	Atmosphere Control, Fire
	Detection, Ice and Rain
	Protection Systems4
+AMT224	Aircraft Sheet Metal5
+AMT226	Aircraft Landing Gear, Hydraulic,
	Pneumatic, Fuel, Position and
	Warning Systems7
+AMT228	Aircraft Electrical Systems,
	Instruments, Fuel Indicating,
	Communication and
	Navigation Systems7

CERTIFICATE OF COMPLETION: CCL 5668

32 Credits

DIVISION CHAIR:

ERIC SNYDER ~ (480) 988-8127

eric.snyder@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion in Airframe Maintenance (Part 147) Program is designed for individuals who hold an FAA Powerplant Certificate or who desire to specialize in areas of structural maintenance or repair. This certificate provides the necessary knowledge to continue into areas of avionics, composites, or heavy structures specializations. This program of study normally requires two semesters to complete if the prerequisites have been met.

The program prerequisites normally require one or more semesters to complete.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. = 2.00.

ADMISSION CRITERIA

Students wishing to enroll in this Part 147 Certificate program must complete an application process before being officially accepted into the program.

PROGRAM PREREQUISITES: 28-29 CREDITS

+ENG091	Fundamentals of Writing (3) OR	,
Equivalent as in	ndicated by assessment	3
+MAT091	Introductory Algebra (4) OR	
+MAT092	Introductory Algebra (3) OR	
Equivalent as in	ndicated by assessment3	-4
+RDG091	College Reading Skills I (3) OR	
Equivalent as in	ndicated by assessment	3
AND		
+AMT124	Aircraft Forms and Regulations,	,
	Weight and Balance, Drawings,	
	and Ground Operations	5
+AMT126	$Fundamentals\ of\ Mathematics$	
	and Electricity	9
+AMT128	Fundamentals of Aviation	
	Physics, Corrosion Control,	
	Materials and Processes, Fluid	

OR

Hold a valid FAA Powerplant Certificate and pass an Aviation General Subject exam with a minimum score of 70 percent.

Lines and Fittings.....5

AND

Permission of the Department or Division.

REQUIRED COURSES: 32 CREDITS

+AMT220	Fundamentals of Aircraft Wood	d
	Structures, Covering and	
	Finishing and Bonded	
	Structures	3
+AMT222	Atmosphere Control, Fire	
	Detection, Ice and Rain	
	Protection Systems	4
+AMT224	Aircraft Sheet Metal	5
+AMT226	Aircraft Landing Gear, Hydraul	ic,
	Pneumatic, Fuel, Position and	
	Warning Systems	7
+AMT228	Aircraft Electrical Systems,	
	Instruments, Fuel Indicating,	
	Communication and	
	Navigation Systems	7
+AMT230	Airframe Assembly, Inspection	١,
	and Welding	6

Powerplant Maintenance (Part 147)

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CERTIFICATE OF COMPLETION: CCL 5669

33 Credits

DIVISION CHAIR:

ERIC SNYDER ~ (480) 988-8127

eric.snyder@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion in Powerplant Maintenance (Part 147) Program is designed for individuals who hold an FAA Airframe Certificate or who desire to specialize in areas of engine maintenance or repair. This program of study normally requires two

semesters to complete if the prerequisites have been met.

The program prerequisites normally require one or more semesters to complete.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. = 2.00.

ADMISSION CRITERIA

Students wishing to enroll in this Part 147 Certificate program must complete an application process before being officially accepted into the program.

DDOGDAM DDEDECHISITES: 28-29 CDEDITS

PROGRAM PR	REREQUISITES: 28-29 CREDITS
+ENG091	Fundamentals of Writing (3) OR
	Equivalent as indicated by
	assessment3
+MAT091	Introductory Algebra (4) OR
+MAT092	Introductory Algebra (3) OR
	Equivalent as indicated by
	assessment 3-4
+RDG091	College Reading Skills I (3) OR
	Equivalent as indicated by
	assessment3
AND	
+AMT124	Aircraft Forms and Regulations,
	Weight and Balance, Drawings,
	and Ground Operations5
+AMT126	Fundamentals of Mathematics
	and Electricity9
+AMT128	Fundamentals of Aviation
	Physics, Corrosion Control,
	Materials and Processes, Fluid

OR

Hold a valid FAA Airframe Certificate and pass an Aviation General Subject exam with a minimum score of 70 percent.

AND

Permission of the Department or Division.

REQUIRED COURSES: 33 CREDITS

+AMT263	Aircraft Turbine Engines5
+AMT264	Aircraft Reciprocating Engines7
+AMT266	Engine Fuel System, Fuel
	Metering and Induction
	System6
+AMT268	Engine Electrical, Ignition
	and Starter Systems6
+AMT270	Engine Instruments, Fire
	Protection and Lubrication,
	Cooling and Exhaust Systems5
+AMT272	Propeller Systems and
	Engine Inspections4

Art: Computer Illustration

Media Arts:

Computer Art/Illustration

CERTIFICATE OF COMPLETION: CCL 5881

16 Credits

PROGRAM CONTACT:

TED WOLTER ~ (480) 732-7089

william.wolter@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Media Arts: Computer Art/Illustration is designed for the student who wishes to develop an area

Lines and Fittings.....5

of specialization in Computer Art/Illustration. The program acquaints the student with art principles and assists the students in developing their abilities to solve design and compositional problems as related to the art. It allows for the development of an individual's personal interest in this area, prepares students for employment, and upgrades skills of those already employed in this field. Employment opportunities are included in multimedia such as illustrator, artist, designer, paste-up artist, freelance artist-designer, graphic design artist, or multimedia artist.

PROGRAM NOTES

+ indicates course has prerequisites and/or corequisites.

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

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 16 CREDITS

+ADA/ART169	Two-Dimensional
	Computer Design3
+ADA/ART177	Computer-Photographic
	Imaging (3) OR
+ART173	Computer Art (3)3
+ADA/ART289	Computer Illustration3
ART100	Introduction to Computer
	Graphic Art1
ART111	Drawing I3
ART116	Life Drawing I3

Art: Digital Photography

Media Arts: Digital Imaging

CERTIFICATE OF COMPLETION: CCL 5879

16 Credits

PROGRAM CONTACT:

TED WOLTER ~ (480) 732-7089

william.wolter@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Media Arts: Digital Imaging program is designed for the student who wishes to develop marketable skills in the area of photography and digital imaging. The program is designed to provide the student with an understanding of film, cameras, and film equipment; a knowledge of photography terminology; and digital imaging tools and processes. This curriculum is designed to prepare students for employment and upgrades the skills of persons already employed in this field. Knowledge and skills can be applied to such occupational areas as media production, marketing, graphic production, desktop publishing, multimedia, service bureau and customer service, and web page production. Job titles may include artist, photographer, designer, and freelance artist-designer. An Associate in Applied Science (AAS) is also available.

PROGRAM NOTES

+ indicates course has prerequisites and/or corequisites.

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

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 16 CREDITS +ADA/ART177 Computer-Photographic

*ADA/ANTI//	Computer-Friotographic
	Imaging3
ART100	Introduction to Computer
	Graphic Art1
ART131	Photography I3
+ART132	Photography II (3) OR
+ART143	Intermediate Digital
	Photography (3)3
ART142	Introduction to Digital
	Photography3
+ART270	Intermediate Computer
	Photographic Imaging3

Business

General Business

ASSOCIATE IN APPLIED SCIENCE: AAS 3148

61-66 Credits

PROGRAM CONTACT:

LEE GARZA ~ (480) 732-7211

lee.garza@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in General Business program is designed to meet the needs of students who wish a broad overview of business and desire not to enroll in a specialized curriculum in business. The program is designed to

acquaint students with major subject areas of business, to improve the student's business vocabulary, and to provide students with an understanding of influencing factors in business decision making and activities. In addition, this program may aid a student in recognizing a specific business field to be pursued in future studies. Although many courses will transfer to a four-year institution, some courses do not. This curriculum is not designed to meet the needs of students who wish to transfer to a four-year institution. A Certificate of Completion (CCL) is also available.

PROGRAM NOTES

ACC111

+ indicates course has prerequisites and/or corequisites.

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

Accounting Principles I3

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 21 CREDITS

	3 .
CIS105	Survey of Computer
	Information Systems3
GBS110	Human Relations in Business
	and Industry (3) OR
MGT175	Business Organization and
	Management (3) OR
MGT251	Human Relations in
	Business (3)3
GBS151	Introduction to Business3
GBS205	Legal, Ethical, and Regulatory
	Issues in Business3
+GBS233	Business Communication3
MKT271	Principles of Marketing3

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RESTRICTED ELECTIVES: 18 CREDITS

Students should select eighteen (18) credits from the following courses. Any 100/200 level prefixed courses may be selected, except courses used to satisfy the Required Courses area.

ACC++++	Any ACC Accounting course(s)
GBS++++	Any GBS General Business
	course(s)
MGT++++	Any MGT Management course(s)
MKT++++	Any MKT Marketing course(s)
EPS++++	Any EPS Entrepreneurial Studies
	course(s)
IBS++++	Any IBS International Business
	course(s)
REA++++	Any REA Real Estate course(s)
SBS++++	Any SBS Small Business
	Management course(s)
CIS114DE	Excel Spreadsheet3
CIS117DM	Microsoft Access:
	Database Management3
CIS133DA	Internet/Web Development
	Level I3

GENERAL EDUCATION: 22-27 CREDITS

CORE: 12-17 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)6

ORAL COMMUNICATION

Any approved	l general	leducation	course in t	he
Oral Commun	ication a	area	•••••	3

CRITICAL READING

+CRE101	College Critical Reading	
	and Critical Thinking (3) OR	
Equivalent by	Assessment	0-3

MATHEMATICS

+MAT120	Intermediate Algebra (5) OR
+MAT121	Intermediate Algebra (4)
+MAT122	Intermediate Algebra (3) 3-5

DISTRIBUTION:10 CREDITS

HUMANITIES AND FINE ARTS

Any approved general education course in the Humanities and Fine Arts area3

SOCIAL AND BEHAVIORAL SCIENCES

ECN211	Macroeconomic
	Principles (3) OR
ECN212	Microeconomic
	Principles (3) OR
SBU200	Society and Business (3)3

NATURAL SCIENCES

Any approved general education course in the	
Natural Sciences area4	1

General Business

CERTIFICATE OF COMPLETION: CCL 5683

21 Credits

PROGRAM CONTACT:

LEE GARZA ~ (480) 732-7211

lee.garza@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in General Business is designed to provide business training for various entry-level positions in business. The courses include an introduction to business concepts, accounting and computer principles, and legal issues related to business. An Associate in Applied Science (AAS) is also available.

PROGRAM NOTES

+ indicates course has prerequisites and/or corequisites.

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

REQUIRED COURSES: 12 CREDITS

ACC111	Accounting Principles I	.3
CIS105	Survey of Computer	
	Information Systems	.3
GBS151	Introduction to Business	.3
GBS205	Legal, Ethical and Regulatory	
	Issues in Business	.3

RESTRICTED ELECTIVES: 9 CREDITS

Students should select nine (9) credits from the following courses. Any 100/200 level prefixed courses may be selected, except courses used to satisfy the Required Courses area.

Any ACC Accounting course(s)
Any GBS General Business
course(s)
Any MGT Management course(s)
Any MKT Marketing course(s)
Any IBS International Business
course(s)
Any REA Real Estate course(s)
Any SBS Small Business
Management course(s)
Excel Spreadsheet3
Microsoft Access:
Database Management3

CIS133DA	Internet/Web Development	
	Level I	3
EPS++++	Any EPS Entrepreneurial Studies	•
	course(s) 1-:	3

Organizational Leadership

CERTIFICATE OF COMPLETION: CCL 5731

18 Credits

PROGRAM CONTACT:

BETH NUNEVILLER ~ (480) 857-5134

beth.nuneviller@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Organizational Leadership is designed to prepare students with knowledge and skills needed in today's changing workplace.

The program provides 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.

An Associate in Applied Science (AAS) in Organizational Management is also available.

PROGRAM NOTES

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

+ indicates course has prerequisite and/or corequisites.

Overall program minimum G.P.A. = 2.00.

PROGRAM PREREQUISITES: 0-3 CREDITS

+ENG101 First-Year Composition (3) OR

First-Year Composition for

	ESL (3) OR			
Permission of Department or Division (0) 0-3				
REQUIRED (COURSES: 18 CREDITS			
BPC110	Computer Usage and			
	Applications (3) OR			
CIS105	Survey of Computer			
	Information Systems (3)3			
GBS110	Human Relations in Business			
	and Industry (3) OR			
MGT251	Human Relations in			
	Business (3)3			
GBS151	Introduction to Business3			
+GBS233	Business Communication3			
MGT175	Business Organization and			
	Management (3) OR			
TQM240	Project Management in Quality			
	Organizations (3)3			
MGT101	Techniques of Supervision (3)			
	OR			
MGT229	Management and			
	Leadership I (3)3			
••••••				

Organizational Management

ASSOCIATE IN APPLIED SCIENCE: AAS 3727

60 Credits

+ENG107

PROGRAM CONTACT:

BETH NUNEVILLER ~ (480) 857-5134

beth.nuneviller@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Organizational Management program is designed 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

provides 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. A Certificate of Completion (CCL) in Organizational Leadership is also available.

PROGRAM NOTES

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

+ indicates course has prerequisite and/or corequisites.

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 18 CREDITS

Certificate of Completion in Organizational Leadership (5731)......18

RESTRICTED ELECTIVES: 19-25 CREDITS

Students must choose 19-25 industry/job related course credits from any MCCCD occupational program and/or Academic Certificate. Industry/job related course credits must include a minimum of 9 credits with a common subject or theme. Program of study must be approved by the business department chair or designee.

GENERAL EDUCATION: 22-27 CREDITS

CORE: 12-17 CREDITS

FIRST-YEAR COMPOSITION

+ENG101	First-Year Composition (3) OR	
+ENG107	First-Year Composition for	
	ESL (3)	3

+ENG102	AND First-Year Composition (3) OR		I DESCRIPTION e in Applied Science (AAS) in		
+ENG108	First-Year Composition				
	for ESL (3) 36	_	gement degree is designed to		
	(-, -	prepare indiv	viduals working in the retail		
ORAL COMM	UNICATION	managemen	t, food industry, and related		
Any approved	d general education course from	fields, for the	e mid-level management position		
the Oral Com	munication area3	challenges of the future. The curriculum			
		encompasses business essentials and also			
CRITICAL RE	ADING	•			
+CRE101	College Critical Reading	-	the skill sets needed for effective		
	and Critical Thinking (3) OR	_	t and communication in the		
Equivalent by	assessment 0-3	work enviror	nment. Instruction will provide		
		the backgrou	the background and knowledge necessary for		
MATHEMATIC		students to develop the judgment skills they			
Any approved	d general education course from	must exercise as business managers.			
the Mathema	tics area 3-5		j		
		PROGRAM N	IOTES		
DISTRIBUTION	DN: 10 CREDITS	Students must earn a grade of "C" or better in			
HIIMANITIE	S AND FINE ARTS	all courses within the program.			
_	- -	· -			
Any approved general education course from the Humanities and Fine Arts area3		+ indicates course has prerequisites and/or			
the Humanit	es and time Arts area	corequisites.			
SOCIAL AND	BEHAVIORAL SCIENCES	Overall program minimum G.P.A. $= 2.00$.			
	general education course from	, -			
	Behavioral Sciences area3	REQUIRED COURSES: 24-27 CREDITS			
		Choose one of the following three accounting			
NATURAL SC	CIENCE	sequences:			
Any approved	general education course in the	ACC111	Accounting Principles I (3) AND		
Natural Scien	ce area4	+ACC230	Uses of Accounting		
••••••		ACC250	Information I (3) AND		
Retail Management		+ACC240	Uses of Accounting		
		ACC2+0	Information II (3) OR		
	E IN APPLIED SCIENCE:	ACC111	Accounting Principles I (3) AND		
AAS 3048		+ACC112	Accounting Principles II (3) AND		
61-63 Credits		+ACC112 +ACC212	Managerial Accounting (3) OR		
PROGRAM CONTACT:		ACC212	Financial Accounting (3) AND		
BETH NUNI		+ACC211	Managerial Accounting (3) 6-9		
(480) 857-5	134	BPC110	Computer Usage and		
beth.nunevil	ler@cgc.edu	DF CT TO	Computer osage and		

beth.nuneviller@cgc.edu

Applications (3) OR

CISI05	Survey of Computer	+ENG102	First-Year Composition (3) OR
	Information Systems (3)3	+ENG108	First-Year Composition
GBS110	Human Relations in Business		for ESL (3) OR
	and Industry (3) OR	+ENG111	Technical Writing (3)6
MGT251	Human Relations in	ENG102 or E	NG108 recommended for students
	Business (3)3		AS degree at an Arizona university.
MGT101	Techniques of Supervision (3)	pansamig a s	a a a g. a a a a a , <u>-</u>
	OR	ORAL COMMUNICATION	
MGT229	Management and	COM100	Introduction to Human
	Leadership I (3)3		Communication3
MGT179	Utilizing the Human Resources		
	Department (3) OR	CRITICAL R	EADING
MGT276	Personnel/Human Resources	+CRE101	College Critical Reading
	Management (3)3		and Critical Thinking (3) OR
MKT268 Merchandising (3) OR		Equivalent as indicated by assessment3	
MGT180	Retail Management (3)3		
MKT271 Principles of Marketing3		MATHEMAT	
		Any approved general education course from	
RESTRICTED ELECTIVES: 9-15 CREDITS		the Mathem	atics area 3-5
Student must complete additional nine (9)			
to fifteen (1	5) credits from GBS, MGT, and/or	DISTRIBUTION: 10 CREDITS	
MKT prefixe	d courses (except courses used	HUMANITIE	S AND FINE ARTS
to satisfy Re	quired Courses area nor excluded	Any approved general education course from	
below) to complete a minimum of 61 total		the Humanities, Arts and Design area3	
program cre	dits. Must include at least one	000141 4111	
MKT course.		SOCIAL ANI SBU200	D BEHAVIORAL SCIENCES Society and Business3
GBS++++	Any GBS General Business	300200	Society and business
	course(s)0-12	NATURAL S	CIENCES
MGT++++	Any MGT Management course(s)		ed general education course from

GENERAL EDUCATION: 22-27 CREDITS

except MGT1800-12

except MKT2683-15

Any MKT Marketing course(s)

CORE: 12-17 CREDITS

MKT++++

FIRST-YEAR COMPOSITION

+ENG101 First-Year Composition (3) OR +ENG107 First-Year Composition

for ESL (3) AND

Retail Management

CERTIFICATE OF COMPLETION: CCL 5286

the Natural Sciences area.4

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24 Credits

PROGRAM CONTACT:

BETH NUNEVILLER ~ (480) 857-5134

beth.nuneviller@cgc.edu

Courses available at CGCC are listed in the Course Descriptions section of this document. General Education Requirements are also listed. For the most current information regarding degree requirements log on to www.maricopa.edu/academic/ccta.

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Retail Management is designed to prepare individuals working in the retail industry, and related fields, for the industry training needs in supervision and management, marketing, financial management, and business planning. The curriculum encompasses several business essentials and also emphasizes the skill sets needed for effective management and communication in the work environment.

PROGRAM NOTES

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

+ indicates course has a prerequisite and/or corequisites.

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 24 CREDITS

KLQOIKLD C	00K3L3. 24 CKLDI13
ACC111	Accounting Principles I (3) OR
ACC211	Financial Accounting (3)3
BPC110	Computer Usage and
	Applications (3) OR
CISI05	Survey of Computer
	Information Systems (3)3
COM100	Introduction to Human
	Communication3
GBS110	Human Relations in Business
	and Industry (3) OR
MGT251	Human Relations in
	Business (3)3
MGT180	Retail Management (3) OR
GBS270AC	Business Internship (3) OR
GBS296WC	Cooperative Education (3) OR
GBS298AC	Special Projects (3)3
MGT101	Techniques of Supervision (3)

	OR
MGT229	Management and
	Leadership I (3)3
MGT179	Utilizing the Human Resources
	Department (3) OR
MGT276	Personnel/Human Resources
	Management (3)3
MKT271	Principles of Marketing3

Child and Family Professional Development

Child and Family
Professional Development

ACADEMIC CERTIFICATE: AC 6238

16 Credits

PROGRAM CONTACT:

JENNIFER PETERSON ~ (480) 857-5535

jennifer.peterson@cgc.edu

PROGRAM DESCRIPTION

The Academic Certificate (AC) in Child and Family Professional Development is designed for practitioners in the early childhood, school-age, or home visitor field seeking coursework and portfolio/resource file assistance to meet a wide variety of national credentialing requirements (such as the Council for Professional Recognition CDA or the National Child Care Association CCP). Individuals completing this certificate will have fulfilled only the required training clock hours and resource file/portfolio prior to application to external credentialing organizations. Final credentialing assessment

and award of	the external credential is	+EED260	Early Childhood Infant/
awarded by the external credentialing organization.		+ITD210	Toddler Internship1 Early Attachments, Relationships, and Families:
PROGRAM NOTES Students must earn a grade of "C" or better for all courses required within the program.		+ITD220	Birth to Age Three3 Cognition and Communication: Birth to Age Three3
+ indicates co	ourse has prerequisites and/or	Preschool ECH128	Early Learning:
	nay be required to meet current gulatory requirements such as	EED205	Play and the Arts
• .	earance, health/immunization r CPR certificate.	EED212	Prenatal to Age Eight3 Guidance, Management and the Environment3
REQUIRED C	COURSES: 16 CREDITS	EED215	Early Learning: Health, Safety, Nutrition and Fitness3
ECH253	National Credential Portfolio Development3	+EED261	Early Childhood Preschool Internship1
Academic Specialization: 13 Students must complete one of the following		Home Visitor CFS190	Home-Based Visitation3
blocks:		CFS205	Human Development3
Family Child Care		CFS220	Introduction to Parenting
CFS163	Family Child Care: Introduction		and Family Development3
	to Business Management3	CFS225	Foundations of Parent
CFS164	Family Child Care:		Education3
	Curriculum and Environment3	+FCS260	Family and Consumer
EED205	The Developing Child:		Science Internship1
	Prenatal to Age Eight3	School Age	
EED215	Early Learning: Health, Safety,	CFS167	School-Age Child
	Nutrition and Fitness3	C. 3.07	Care Provider3
+EED260	Early Childhood Infant/	CFS/ECH176	Child Development3
FFD261	Toddler Internship (1)OR	CFS206	Child and Family
+EED261	Early Childhood Preschool		Organizations: Management
	Internship (1)1		and Administration3
Infant Toddle	r	EED215	Early Learning: Health, Safety,
EED205	The Developing Child:		Nutrition and Fitness3
	Prenatal to Age Eight3	+FCS260	Family and Consumer
EED215	Early Learning: Health, Safety,		Science Internship1
	Nutrition and Fitness3		

Cisco Networking Networking Technology: Cisco

ASSOCIATE IN APPLIED SCIENCE: AAS 3816

60-63 Credits

PROGRAM CONTACT:

TOM PEARSON ~ (480) 726-4131

tom.pearson@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Networking Technology: Cisco provides training for a supervisory position working with Cisco Systems networking and Internet hardware. A Cisco Systems recognized regional or local academy, prepares students for industry-recognized certification. The curriculum is taught by Cisco Systems Certified Professionals. 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); troubleshoot problems with various common hardware and software configurations; perform administrative tasks in a network; develop methods for customer service. Courses in the program also prepare students for the Cisco Certified Networking Associate examination.

JOB DESCRIPTION

A Cisco networking Administrator will be required to perform various tasks such

as designing, installing, maintaining and troubleshooting Cisco routers and components, Local Area Networks (LANs), and Wide Area Networks (WANs). Additional skills that are necessary include troubleshooting problems with various common hardware and software configurations, performing administrative tasks in a network, developing methods for customer service, and utilizing electronic systems.

JOB OPPORTUNITIES

Cisco systems is the world's largest manufacturer of networking and Internet hardware and has seen tremendous growth of market share. The employment opportunities for trained Networking Administrators are outstanding.

PROGRAM NOTES

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

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

A course cannot be used to satisfy both the Required Course and Restricted Electives area.

REQUIRED COURSES: 22 CREDITS

+BPC170	A+ Exam Prep: Computer	
	Hardware Configuration and	
	Support	3
CIS126++	UNIX/Linux Operating System	
	any course (3)	3
OR		

MST150++ CNT140AA + CNT150AA	Microsoft Windows any course (3)3 Introduction to Networks4 Cisco - Routing and Switching	+CNT168	CCNA Discovery - Designing and Supporting Computer Networks4	
1 CIVI 150/1/	Essentials 4	RESTRICTED	ELECTIVES: 16 CREDITS	
+ CNT160AA	Scaling Networks4	Student may	select fifteen (16) credits from	
+ CNT170AA	Cisco - Connecting Networks4	any of the fol	llowing courses, except courses	
One of the fo	llowing 2 tracks must be fulfilled:	used to satisfy Required Courses area:		
Track 1 - Explo	oration14-18	BPC110	Computer Usage and	
CNT140 CNT140AA	Cisco Networking Basics (4) OR Introduction to Networks (4) OR	CIS105	Application (3) OR Survey of Computer	
CNT138	CCNA Discovery - Networking for Home and	+CIS126++	Information Systems (3)3 UNIX/Linux Operating System (any module) (3) OR	
+CNT148	Small Businesses (3) AND CCNA Discovery - Working at	+MST150	Microsoft Windows Professional (3) OR	
	a Small-to-Medium Business or Internet Service Provider (3) 4-6	+MST150VI	Microsoft Windows Vista Administration (3) OR	
+CNT150	Cisco Networking Router Technologies (4) OR	+MST150XP	Microsoft Windows XP Professional (3)3	
+CNT150AA	Cisco - Routing and Switching Essentials (4)4	+CIS190	Introduction to Local Area	
+CNT160	Cisco Switching Basics and Intermediate Routing (3) OR	MST140	Networks (3) OR Microsoft Networking	
+CNT160AA +CNT170	Scaling Networks (4)	+CIS270	Essentials (3)3 Essentials of Network and Information Security3	
+CNT170AA	(WAN) Technologies (3) OR Cisco - Connecting Networks (4)	+CIS296WA +CIS296WB	Cooperative Education (1) OR Cooperative Education (2) OR	
Track 2 - Disco	overy14	+CIS296WC +CIS296WD	Cooperative Education (3) OR Cooperative Education (4) 1-4	
CNT138	CCNA Discovery -	CIS290VD	Special Projects (1) OR	
CIVITISO	Networking for Home and	CIS298AB	Special Projects (2) OR	
	Small Businesses3	CIS298AC	Special Projects (3) 1-3	
+CNT148	CCNA Discovery - Working at	CIS121AB	Microsoft Command Line	
	a Small-to-Medium Business or		Operations1	
	Internet Service Provider3	CIS102	Interpersonal and	
+CNT158	CCNA Discovery - Introduction		Customer Service Skills for	
	to Routing and Switching in the		IT Professionals1	
	Enterprise4	CIS110	Home Entertainment and Computer Networking3	

ELT100	Survey of Electronics3	CIS280	Current Topics in Computing3
CIS224	Project Management Microsoft	+BPC/	
	Project for Windows3	CIS290AA	Computer Information
+CNT205	Cisco Certified Network		Systems Internship (1) OR
	Associate Security4	+BPC/	
+CNT181	Cisco Securing IOS Networks4	CIS290AB	Computer Information
+CNT202	Cisco Secure Firewall		Systems Internship (2) OR
	Appliance Configuration3	+BPC/	
+CNT183	Cisco Secure Virtual Private	CIS290AC	Computer Information
	Network Configuration3		Systems Internship (3) 1-3
+CNT185	Cisco Network Security4		
+CNT206	Cisco Certified Network	GENERAL E	DUCATION: 25 CREDITS
	Associate Wireless4		
+CNT2++++	Any 200 level course with a	CORE: 15 C	REDITS
	CNT Prefix 1-4	FIRST VEAR	COMPOSITION
+BPC270	A+ Exam Prep: Operating		COMPOSITION
	System Configuration and	+ENG101	First-Year Composition (3) OR
	Support3	+ENG107	First-Year Composition
+BPC273	Advanced Server Computer	FNC102	for ESL (3)3
	Maintenance: Server+ Prep3	+ENG102	First-Year Composition (3) OR
+CIS127DL	Linux Utilities3	+ENG108	First-Year Composition
+CIS238DL	Linux System Administration3	FNC444	for ESL (3) OR
+CIS239DL	Linux Shell Scripting3	+ENG111	Technical and Professional
+CIS240DL	Linux Network Administration3		Writing (3)3
+CIS241DL	Apache Web Server	OBAL COM	MUNICATION
	. Administration (Linux/Unix)3		
+CIS271DL	Linux Security3		ed general education course in the tion area3
+CIS274DL	Linux Enterprise Network	Communica	uon area3
	Security3	CRITICAL R	FADING
+MST152	Microsoft Windows Server (4)	+CRE101	College Critical Reading
	OR	C.12.01	and Critical Thinking (3) OR
+MST152DA	Microsoft Windows 2000	Fauivalent a	s indicated by assessment3
	Server (4) OR	Equivalent	s marcated by assessmentimining
+MST152DB	Microsoft Windows 2003	MATHEMAT	ics
	Server (4) 4	Any approve	ed general education course
+MST155	Implementing Windows		ubject3
	Network Infrastructure3		•
+MST157	Implementing Windows	DISTRIBUT	ION: 10 CREDITS
	Directory Services3		
+CIS250	Management of Information		
-	Systems3		
	,		

HUMANITIES AND FINE ARTS Any approved general education course in the		PROGRAM NOTES Students must earn a grade of "C" or better for	
Humanities and Fine Arts area3		all courses required within the program.	
SOCIAL AND BEHAVIORAL SCIENCES Any approved general education course in the	+ indicates corequisites	ourse has prerequisites and/or	
Social and Behavioral Sciences area3		COURSES: 14-18 CREDITS	
NATURAL SCIENCES	One of the fo	ollowing 2 tracks must be fulfilled:	
Any approved general education course in the	Track 1 - Expl	oration14-18	
Natural Sciences area4	CNT140	Cisco Networking Basics (4) OR	
••••••	CNT140AA	Introduction to Networks (4) OR	
Networking Administration:	CNT138	CCNA Discovery - Networking	
Cisco		for Home and Small Businesses (3) AND	
CERTIFICATE OF COMPLETION:	+CNT148	CCNA Discovery - Working at	
CCL 5969		a Small-to-Medium Business or	
14-18 Credits		Internet Service Provider (3) 4-6	
PROGRAM CONTACT:	+CNT150	Cisco Networking Router	
TOM PEARSON ~		Technologies (4) OR	
(480) 726-4131	+CNT150AA	Cisco - Routing and Switching	
tom.pearson@cgc.edu		Essentials (4)4	
	+CNT160	Cisco Switching Basics and	
PROGRAM DESCRIPTION	CNIT1 COAA	Intermediate Routing (3) OR	
The Certificate of Completion (CCL) in	+CNT160AA +CNT170	Scaling Networks (4) 3-4 Cisco Wide Area Network	
Networking Administration: Cisco provides	+CN1170	(WAN) Technologies (3) OR	
training for those interested in working	+CNT170AA	Cisco - Connecting	
with Cisco Systems networking and	CIVITYON	Networks (4)	
Internet hardware. Knowledge and skills are	Total 2 Disc	• •	
developed to install, configure, maintain,		overy14	
and troubleshoot Cisco routers and switches,	CNT138	CCNA Discovery -	
and configure advanced routing protocols,		Networking for Home and Small Businesses	
5		JI I I I I DUJII I E 33 E 3	

Courses available at CGCC are listed in the Course Descriptions section of this document. General Education Requirements are also listed. For the most current information regarding degree requirements log on to www.maricopa.edu/academic/ccta.

Local Area Networks (LANs), and Wide Area

Networks (WANs). The courses in the program

are designed to help prepare students for the

Cisco Certified Networking Associate (CCNA)

examination and are taught by Cisco Certified

Professionals using the Cisco Networking

Academy program curriculum.

+CNT148

+CNT158

CCNA Discovery - Working at a

Small-to-Medium Business or Internet Service Provider3

Introduction to Routing and

Switching in the Enterprise......4

CCNA Discovery -

+CNT168 CCNA Discovery
Designing and Supporting

•••••••

Computer Networks.....4

Networking Technology: Cisco

CERTIFICATE OF COMPLETION: CCL 5967

22 Credits

PROGRAM CONTACT:

TOM PEARSON ~ (480) 726-4131

tom.pearson@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Networking Technology: Cisco provides training for those interested in supervisory responsibilities working with Cisco Systems networking and Internet hardware. Knowledge and skills are developed to install, configure, maintain, and troubleshoot Cisco routers and switches; configure advanced routing protocols, Local Area Networks (LANs), and Wide Area Networks (WANs); troubleshoot problems with various hardware and software configurations and perform administrative tasks in a network. The courses in the program are also designed to help prepare students for the Cisco Certified Networking Associate (CCNA) examination and are taught by Cisco Certified Professionals using the Cisco Networking Academy program curriculum.

PROGRAM NOTES

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

+ indicates course has prerequisite and/or corequisites.

REQUIRED COURSES: 22 CREDITS

+ BPC170	A+ Exam Prep: Computer	••••
	Hardware Configuration and	
	Support	3
CIS126++	UNIX/Linux Operating System	••••
	(any course)((3)
OR MST150++	- Microsoft Windows (any course	<u>.</u>).
	((3)
CNT140AA	Introduction to Networks	4
+ CNT150AA	Cisco - Routing and Switching.	••••
	Essentials	. 4
+ CNT160AA	Scaling Networks	4
+ CNT170AA	Cisco - Connecting Networks	4

Computer Applications

Business Applications

ASSOCIATE IN APPLIED SCIENCE: AAS 3548

60-64 Credits

PROGRAM CONTACT:

LANA SHORT ~ (480) 732-7191

lana.short@cqc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Business Applications is designed to provide the skills needed for those students who are interested in becoming part of the support system in almost any workplace configuration in a wide variety of business areas. This program prepares students to use common business computer applications for professional and personal computing.

effective com marketing, ar are integrated in the progra	ess skills, including accounting, amunication, management, and business law basic principles d in the program. Courses am prepare for the Microsoft of the for certification as a Microsoft list (MOS).	BPC/ OAS111AA BPC/ OAS111AB ACC115 GBS205 MGT101	Computer Keyboarding I
	st earn a grade of "C" or better in	MGT175	Business Organization and Management3
all courses wi	thin the program.	MGT229	Management and
+ indicates course has prerequisites and/or corequisites.		MGT251 MGT253	Leadership 13 Human Relations in Business 3 Owning and Operating a Small
Overall progr	am minimum G.P.A. = 2.00.		Business3
		MGT271	Principles of Marketing 3
	OURSES: 31 CREDITS	CIS102	Interpersonal and Customer
ACC111	Accounting Principles I3		Service Skills for IT Professional1
CIS105	Survey of Computer Information	CIS290AA	Computer Information Systems
	Systems3		Internship1
CIS113DE	Microsoft Word: Word	+CIS213DE	Advanced Microsoft Word: Word
CICAA ADE	Processing3		Processing3
CIS114DE	Excel Spreadsheet3	+CIS214DE	Advanced Excel Spreadsheet:
CIS117DM	Microsoft Access: Database		Level II3
CIC110DD	Management3	+CIS217AM	Advanced Microsoft Access:
CIS118DB	Desktop Presentation: Powerpoint3		Database Management3
CIS121AE	Windows Operating System:	GENERAL EL	DUCATION: 22-25 CREDITS
CISTZTAL	l evel 1 1	GENERAL EL	OGATION: 22 20 OKEDITO
CIS133DA	Internet/Web Development	CORE: 12-15	CREDITS
CICOOA	Level 1 3	FIRST-YEAR	COMPOSITION
CIS224	Project Management Microsoft Project for Windows	+ENG101	First-Year Composition (3) OR
GBS151	Introduction to Business 3	+ENG107	First-Year Composition
+GBS233	Business Communication3		for ESL (3)3
ا ((کروناک	Dasiness Communication	+ENG102	First-Year Composition (3) OR
RESTRICTED	ELECTIVES: 7-8 CREDITS	+ENG108	First-Year Composition
Students choose two (2) 3 credit courses and			for ESL (3)6
(=) 0 0.0000 0.000			

one (1) 1 or 2 credit course from the following

in a consultation with a program advisor:

	LINICATION	DDOODAN	DECORIDATION
ORAL COMMUNICATION COM100 Introduction to Human		PROGRAM DESCRIPTION	
COMTOO	Communication (3) OR		te of Completion (CCL) in
+COM230			olications Specialist emphasizes
COMESO	Communication (3)3	training on w	ord processing, spreadsheet,
	Communication (5)	database, an	d presentation software for
CRITICAL RE	ADING	business pur	poses. Courses provide students
+CRE101	College Critical Reading	with skills to	work in various settings, such
	and Critical Thinking (3) OR	as administrative assistant, accountant,	
Equivalent as	indicated by assessment3		ss owner, and managers at all
			ertificate is designed to provide
MATHEMATIC			
* * *	general education course from		for the Microsoft examinations
the Mathema	tics area3		on as a Microsoft Office Specialist
DISTRIBUTIO	DN:10 CREDITS	(MOS).	
DISTRIBUTE	ON. TO CREDITS		
HUMANITIES	S AND FINE ARTS	PROGRAM N	
Any approved	general education course from		st earn a grade of "C" or better for
	es and Fine Arts area3	all courses required within the program.	
		+ indicates co	ourse has prerequisites and/or
SOCIAL AND	BEHAVIORAL SCIENCES	corequisites.	
ECN211	Macroeconomic Principles (3)	Overall progr	ram minimum G.P.A. = 2.00.
	OR	overan prog.	2.000
ECN212	Microeconomic Principles (3)	RECUIRED (COURSES: 13 CREDITS
CDLIGGO	OR	CIS113DE	Microsoft: Word Processing 3
SBU200	Society and Business (3)3	CIS113DE	Excel Spreadsheet3
NATURAL SC	IENCES	CIS117DM	Microsoft Access Database
	I general education course from		Management3
,	iences area4	CIS118DB	Desktop Presentation
			Powerpoint3
••••••	•••••••	CIS121AE	Windows Operating Systems
Busines	s Applications		Level 1 1
	TE OF COMPLETION:	RESTRICTED	ELECTIVES: 7 CREDITS
CCL 5644N	l		ose two (2) 3 credit courses and
20 Credits			dit course from the following:
PROGRAM		BPC/	Computer Keyboarding II 1
LANA SHOF		OAS111AA	Computer neyboarding if
(480) 732-7		BPC/	
lana.short@c	gc.edu	OAS111AB	Computer Keyboarding II 1
		2	

ACC111	Accounting Principles	.3
CIS133DA	Internet/Web Development	
	Level 1	3
CIS224	Project Management Microsoft	
	Project for Windows	3

•••••••••••

Computer Database Administration and Development

Oracle Database Operations

CERTIFICATE OF COMPLETION: CCL 5183

12 Credits

PROGRAM CONTACT:

PREMA RAYAPPA (480) 732-7230

prema.rayappa@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Oracle Database Operations program provides training for students seeking professional positions in designing, creating, and maintaining databases; also creating application code that can be shared by multiple forms, reports, and data management tools. Chandler-Gilbert Community College, an Oracle Academic Initiative institution, offers programs designed to prepare students for industry-recognized certifications. Courses in the program also help prepare students wanting to pursue **Oracle Application Developer Certified** Associate and Oracle Database Administrator Certified Associate industry-certified examinations (Oracle Corporation OCA certifications).

JOB DESCRIPTION

Oracle Certified Associates are professionals who are required to perform various job tasks such as enterprise database planning and design; creating and maintaining the database and its objects; and storing, retrieving, and manipulating data utilizing SQL. Oracle Certified Associates are also responsible for resolving technical issues and providing application and user support; as well as creating PL/SQL application code that can be shared by multiple forms, reports, and data management applications.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. = 2.00.

PROGRAM PREREQUISITES: 3 CREDITS

In lieu of the course listed below, students with experience in the information technology field may meet this program prerequisite requirement with the permission of the division.

CIS105	Survey of Computer
	Information Systems (3) OR
	Permission of the Division 0-3

REQUIRED COURSES: 12 CREDITS

MEGGINED O	OUNCED. IE ONEDITO
+ CIS119DO	Introduction to Oracle: SQL3
+ CIS119DP	Oracle: Database
	Administration3
+ CIS154	Database Modeling
	and Design3
+ CIS164AB	Oracle: PL/SOL Programming3

Computer Hardware Maintenance and Desktop Support

Computer Hardware and Desktop Support

CERTIFICATE OF COMPLETION: CCL 5026

20-25 Credits

PROGRAM CONTACT:

TOM PEARSON (480) 726-4131

tom.pearson@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion in Computer Hardware and Desktop Support is designed to provide training to work in an entry-level computer maintenance and help-desk position. Students will be provided the opportunity to apply technical concepts, fundamentals, and interpersonal skills in a help-desk environment.

PROGRAM NOTES

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

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

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 21-22 CREDITS

BPC110 Computer Usage and Applications (3) OR CIS105 Survey of Computer

Information Systems (3).....3

Microsoft PowerShell/
Command Line
Operations (3) OR
Linux Operating System (3)3
Computer Maintenance: A+
Exam Prep Level I3
A+ Exam Prep: Operating System
Configuration and Support3
Customer User Support (3) OR
Interpersonal and Customer
Service Skills for IT
Professionals (1) 1-3
Introduction to Local Area
Networks (3) OR
Introduction to Networks (4) OR
Microsoft Networking
Essentials (3) 3-4
Microsoft Windows
(any suffixed course)3
•
ELECTIVES: 1-3 CREDITS
Recycling Used Computer
Technology3
Computer Information
Systems Internship 1-3
Enterprise Desktop
Support Technician3

Computer Information Technology

Information Technology

ASSOCIATE IN APPLIED SCIENCE: AAS 3023

60 Credits

PROGRAM CONTACTS:

PATRICIA BAKER ~ (480) 732-7392

patricia.baker@cgc.edu

TOM PEARSON (480) 726-4131

tom.pearson@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Information Technology program is designed to provide students with skills to meet the changing employment needs of the information technology (IT) industry. With the flexibility of elective course offerings in this degree, students are able to custom design a program that prepares them for depth of understanding in distinct IT areas or prepares them for a breadth of understanding across an IT field. A variety of opportunities also exist to complete course work that will prepare students for industry-recognized examinations and certifications. Students are encouraged to work closely with the division chair to plan their programs of study.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. = 2.00.

PROGRAM PREREQUISITES: 0-3 CREDITS

+CRE101 College Critical Reading and Critical Thinking (3) OR Equivalent as indicated by assessment..................0-3

REQUIRED COURSES: 15-28 CREDITS

Complete one of the following certificates. Some certificates may contain additional course requirements.

RESTRICTED ELECTIVES: 9-27 CREDITS

Students must choose 9-27 specific IT elective credits approved by the division chair. Selected courses will not apply in both Required Courses and Restricted Electives area.

GENERAL EDUCATION: 22 CREDITS CORE: 12 CREDITS FIRST-YEAR COMPOSITION First-Year Composition (3) AND +ENG101 +ENG102 First-Year Composition (3) OR +ENG107 First-Year Composition for ESL (3) AND +ENG108 First-Year Composition for ESL (3).....6 **ORAL COMMUNICATION** Any approved general education course in the Oral Communication area.....3 CRITICAL READING Met by CRE101 in the Program Prerequisites area0 **MATHEMATICS** Any approved general education course in the Mathematics area.....3 **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......3 **NATURAL SCIENCES**

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

Computer Programming

Programming and System

CERTIFICATE OF COMPLETION: CCL 5048

24 Credits

PROGRAM CONTACT:

PATRICIA BAKER ~ (480) 732-7392

patricia.baker@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) 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.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Consultation with an academic advisor is recommended for course selection.

REQUIRED COURSES: 21 CREDITS

CIS105	Survey of Computer
	Information Systems3
CIS224	Project Management Microsoft
	Project for Windows3
CIS126DA	UNIX Operating System (3) OR
CIS126DL	Linux Operating System (3) OR
MST150	Microsoft Windows
	Professional (3) OR

MST150VI	Microsoft Windows Vista
	Administration(3) OR
MST150XP	Microsoft Windows XP
	Professional (3)3
+CIS150	Programming Fundamentals (3)
	OR
+CIS150AB	Object-Oriented Programming
	Fundamentals (3)3
+CIS151	Computer Game Development-
	Level I (3) OR
+CIS159	Visual Basic Programming I (3)
	OR
+CIS162++	Any C Programming:
	Level 1 course (3) OR
+CIS163AA	Java Programming: Level I (3)3
+CIS225	Business Systems Analysis and
	Design (3) OR
+CIS225AB	Object Oriented Analysis and
	Design (3) OR
+CIS250	Management of Information
	Systems (3)3
+CIS217AM	Advanced Microsoft Access:
	Database Management (3) OR
+CIS119DO	Introduction to Oracle: SQL (3)
	OR
+CIS276DA	My SQL Database (3)3
	ELECTIVES: 3 CREDITS
+CIS251	Computer Game
	Development-Level II3
+CIS259	Visual Basic Programming II3
+CIS262++	Any C Programming:
	Level II Course3
+CIS263AA	Java Programming: Level II3

Creative Writing

Creative Writing

ACADEMIC CERTIFICATE: AC 6224

24 Credits

PROGRAM CONTACT:

MARY ZIMMERER ~ (480) 857-5441

mary.zimmerer@cgc.edu

PROGRAM DESCRIPTION

The Academic Certificate (AC) in Creative Writing program is designed to provide students and professional writers with access to a community of writers and creative writing activities, instruction and guidance from established authors, and ongoing support in improving their writing skills and marketing their work. As students take courses in the program, they will build a portfolio of original work that may be used to seek admittance to a bachelor or master level creative writing program or that may include work to be submitted for publication. The program offers classes, workshops, and other activities such as readings and contests, which are accessible to writers of all levels regardless of academic or professional standing. The program serves many students, especially women, minorities, seniors, and working adults, who are underrepresented in traditional creative writing programs because of cultural, dialect or language differences, scheduling difficulties, financial need, or lack of academic experience. Completion of the certificate does not lead

to a particular degree program, but may aid
students in their pursuit of a career in the
writing professions and in their continued
enjoyment of writing for personal growth.

PROGRAM NOTES

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

++ indicates any module/suffixed courses.

ADMISSION CRITERIA

Students wishing to enroll in the Creative Writing program must complete a formal application; contact Program Director.

REQUIRED COURSES: 21 CREDITS

ENG210 may be substituted for CRW150 with permission of the Program Director.

CRW150	Introduction to	
	Creative Writing	3
CRW200 must	be repeated for a total of (2)	
two credits		

Series I: Credits: 6

Students must complete two (2) of the following courses for a total of six (6) credits.

CRW120	Introduction to Writing	
	Children's Literature3	
CRW160	Introduction to Writing Poetry3	
CRW170	Introduction to Writing Fiction3	
CRW172	Introduction to Comic	
	Book Writing3	

CRW180	Intro to Writing Nonfiction3
CRW190	Introduction to Screenwriting3
THE118	Playwriting3

Series II: Credits: 9

Students must complete three (3) of the following courses for a total of nine (9) credits.

+CRW202	The Writer as Witness	3
+CRW203	Dialogue	3
+CRW204	Journaling	3
+CRW220	Intermediate Writing	
	Children's Literature	3
CRW251	Topics in Creative Writing	3
+CRW260	Intermediate Poetry Writing3	3
+CRW261	Topics in Writing: Poetry	3
+CRW270	Intermediate Fiction Writing3	3
+CRW271	Topics in Writing: Fiction	3
+CRW272	Planning and Structuring	
	the Novel	3
+CRW273	Writing the Novel	3
+CRW274	Revising the Novel	3
+CRW275	Writing the Mystery Story	3
+CRW281	Topics in Writing: Non-Fiction3	3
+CRW290	Intermediate Screenwriting	3
+CRW291	Topics in Writing: Plays	3

RESTRICTED ELECTIVES: 3 CREDITS

+CRW++++	Any CRW Creative Writing	
	prefixed course not listed under	
	Required Courses area 1-3	
ENG235	Magazine Article Writing3	
ENG/THE260	Film Analysis3	
+ENH++++	Any ENH English Humanities	
	prefixed course3	
HUM/THF210	Contemporary Cinema3	

Early Learning and Development

Early Learning and Development

ASSOCIATE IN APPLIED SCIENCE: AAS 3124

63-68 Credits

PROGRAM CONTACT:

JONI BURRIS ~ (480) 857-5526

joni.burris@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Early Learning and Development program is designed to prepare individuals to enter the workforce as Early Childhood Professionals and to assist individuals employed in the field to upgrade and expand their skills. The program emphasizes the roles of early care and education professionals, families and the wider society as they together meet the contemporary needs of young children. Course work includes the principles of developmental science, professionalism in early childhood work, philosophies and methods of early learning, and the impact of standards on practice. To apply planning, management and evaluation skills, students will observe, participate, and intern in state licensed early childhood programs.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

++ indicates any module/suffixed courses.

PROGRAM PREREQUISITES: NONE

REOUIRED COURSES: 32 CREDITS

REQUIRED CO	ONSES. SZ CNEDITS	
ECH128	Early Learning:	
	Play and the Arts3	
EED200	Foundations of Early	
	Childhood Education3	
EED212	Guidance, Management and	
	the Environment3	
EED215	Early Learning: Health, Safety,	
	Nutrition and Fitness3	
EED220	Child, Family, Community	
	and Culture3	
EED222	Introduction to the	
	Exceptional Young Child: Birth	
	to Age Eight3	
EED245	Early Learning: Language	
	Acquisition and Literacy	
	Development3	
+EED255	Portfolio Development and	
	Writing for the Profession3	
+EED260	Early Childhood Infant/	
	Toddler Internship1	
+EED261	Early Childhood	
	Preschool Internship1	
+EED278	Early Learning: Curriculum and	
	Instruction - Birth/Preschool3	
+EED280	Standards, Observation and	
	Assessment of Typical/Atypical	
	Behaviors of Young Children	
	Birth to Age Eight3	

RESTRICTED ELECTIVES: 9 CREDITS Students must complete one of the following Blocks:

Block One:

Infant and Toddler Development:

ITD200	The Physical Child:	ITD++++	Any ITD Infant/Toddler
110200	Birth to Age Three3	ПОтттт	Development course(s) 1-9
ITD210	Early Attachments,	FCS++++	Any FCS Family and Consumer
110210	Relationships and Families:	10311111	Science course(s) 1-9
	Birth to Age Three3		Science course(s)
ITD220	Cognition and Communication:	GENERAL EI	DUCATION: 22-27 CREDITS
110220	Birth to Age Three3		
		CORE: 12-17	CREDITS
	mily Child Care Management:		
CFS163	Family Child Care: Introduction	_	COMPOSITION
	to Business Management3	+ENG101	First-Year Composition (3) OR
CFS164	Family Child Care: Curriculum	+ENG107	First-Year Composition
	and Environment3		for ESL (3) AND
CFS207	Organization and Community	+ENG102	First-Year Composition (3) OR
	Leadership in Child and Family	+ENG108	First-Year Composition
	Organizations3		for ESL (3)6
Block Three: E	arly Childhood Business	ORAL COMM	IUNICATION
Management	:	Any approved General Education course in the	
CFS206	Child and Family	Oral Communication area3	
	Organizations: Management		
	and Administration3	CRITICAL RE	ADING
CFS207	Organization and Community	+CRE101	College Critical Reading
	Leadership in Child and Family		and Critical Thinking (3) OR
	Organizations3	Equivalent as	indicated by assessment 0-3
CFS208	Child and Family Organizations:		
	Fiscal Management and Grant	MATHEMATIC	
	Writing3		d General Education course in the
Block Four: Ar	ny CFS, ECH, EED, ITD or FCS	Mathematics	area3
prefixed cours	ses not listed in the Required	DISTRIBUTIO	ON: 10 CREDITS
Courses Area		DISTRIBUTA	SN. 10 GREDITS
CFS++++	Any CFS Child/Family	HUMANITIES	S AND FINE ARTS
	Studies course(s)1-9	Any approved	d General Education course in the
ECH++++	Any ECH Early Childhood	Humanities a	nd Fine Arts area3
	Education course(s) except		
	courses used to satisfy Required	SOCIAL AND	BEHAVIORAL SCIENCES
	Courses area 1-9	CFS/ECH176	Child Development (3) OR
EED+++++	Any EED Early Education	EED205	The Developing Child:
	course(s) except courses used		Prenatal to Age Eight (3) OR
	to satisfy Required Courses		
	area1-9		

CFS235 Developing Child: Theory into Practice, Prenatal - Age 8 (3)3

NATURAL SCIENCES

Any approved General Education course in the Natural Sciences area.....4

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Electric Utility Technology

Electric Utility Design Technology

ASSOCIATE IN APPLIED SCIENCE: AAS 3117

64 Credits

PROGRAM CONTACT:

MARK WEAVER ~ (480) 988-8255

mark.weaver@cgc.edu

PROGRAM DESCRIPTION

The Electric Utility Design Technology program will prepare students for an entry level position with utility companies throughout the United States. The courses will introduce the students to both overhead and underground power line construction, theory, and applications. Once a basic knowledge is learned the student will be able to draw and design new constructions in AutoCAD.

PROGRAM NOTES

+ indicates course has prerequisites and/or corequisites.

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

ADMISSION CRITERIA

Application and admission into the Electric Utility Technology Program is required.

PROGRAM PREREQUISITES: 11-13 CREDITS

Student must pass a physical examination in the twelve month period prior to acceptance into the program.

+ENG091	Fundamental of Writing (3) OR		
Appropriate En	glish placement test score	.3	
+MAT090	Developmental Algebra (5) OR		
+MAT091	Introductory Algebra (4) OR		
+MAT092	Introductory Algebra (3) OR		
Satisfactory sco	re on District placement exam OR		
+MAT093	Introductory Algebra/		
	Math Anxiety Reduction (5) 3-	5	
+RDG091	College Reading Skills I (3) OR		
Appropriate Re	eading placement test score OR		
Permission of in	nstructor	3	
+CAD162	Architectural CAD	.2	

REQUIRED COURSES: 33 CREDITS

Students must obtain First Aid/ Cardiopulmonary Resuscitation (CPR) certification by the completion of EUT230.

+ENG101	First-Year Composition	3
+ENG102	First-Year Composition (3) OR	
+ENG111	Technical and Professional	
	Writing (3)	3
+MAT122	Intermediate Algebra	3
+EUT110	Line Work I	2
+EUT112	Basic Electricity: AC and DC	4
+CAD101	Elements of CAD Graphics	
	(AutoCAD)	3
+EUT210	Line Work II	2
+EUT211	Electrical Apparatus	4
+CAD164	Residential Working	
	Drawings	3
+EUT 130	CAD for Electric Utility	
	Technology I	3

+EUT 230	CAD for Electric Utility	Met by ENG101 AND ENG102 OR ENG111 in	
	Technology II3	Required Courses area0	
RESTRICTED ELECTIVES: 15 CREDITS		ORAL COMMUNICATION	
Selection must be from a minimum of 2		Any approved general education course in the	
different co	urse prefixes. Selected courses will	Oral Communication area3	
not apply in	both the Required and Restricted		
Electives are	eas.	CRITICAL READING	
ACC++++	Any ACC Accounting courses	+CRE101 College Critical Reading	
BPC++++	Any BPC Business-Personal	and Critical Thinking (3) OR	
	Computer courses	Equivalent as indicated by assessment3	
CAD++++	Any CAD Computer-Aided	MATHEMATICS	
	Drafting courses	Met by MAT102 in Required Courses area0	
CIS++++	Any CIS Computer-Information	met by min roz in nequinea courses area illininino	
	Systems courses	DISTRIBUTION: 10 CREDITS	
COM+++++	Any COM Communication		
	courses	HUMANITIES AND FINE ARTS	
DFT++++	Any DFT Drafting courses	Any approved general education course in the	
EEE+++++	Any EEE Electrical	Humanities and Fine Arts area3	
	Engineering courses	SOCIAL AND BEHAVIORAL SCIENCES	
ELE++++	Any ELE Electronic courses	Any approved general education course in the	
ELT++++	Any ELT Electronics Technology	Social and Behavioral Sciences area	
EMT++++	Any EMT Emergency Medical	Social and Benavioral Sciences area	
LICC	Technology courses	NATURAL SCIENCES	
HES++++ GBS+++++	Any HES Health Science courses	Any approved general education course in the	
GD3+++++	Any GBS General Business courses	Natural Sciences area4	
MET++++	Any MET Manufacturing	••••••	
IVIL I · · · · ·	Technology courses	Electric Utility Technology	
NET++++	Any NET Networking		
	Technology courses	ASSOCIATE IN APPLIED SCIENCE:	
PED+++++	Any PED Physical Education	AAS 3855	
	courses	61-64 Credits	
PHY++++	Any PHY Physics courses	PROGRAM CONTACT:	
SPA++++	Any Spanish Courses15	MARK WEAVER ~ (480) 988-8255	
		mark.weaver@cgc.edu	
GENERAL F	DUCATION: 16 CREDITS	manaveavereegelead	

Courses available at CGCC are listed in the Course Descriptions section of this document. General Education Requirements are also listed. For the most current information regarding degree requirements log on to www.maricopa.edu/academic/ccta.

CORE: 6 CREDITS

FIRST-YEAR COMPOSITION

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS)

in Electric Utility Technology program is

designed to prepare the student for the position of an apprentice-level line worker who is familiar with the use of tools, materials, and the equipment of the electric utility industry. Students will be trained in power line installation and maintenance, pole climbing and use of tools, truck and equipment operation, and overhead and underground distribution, construction, and maintenance of electrical lines.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

ADMISSION CRITERIA

Formal application and admission into the Electric Utility Technology program.

PROGRAM PREREOUISITES:0-8 CREDITS

Students must obtain a Commercial Drivers' License from the state of Arizona prior to completion of the Required Courses.

+ENG091	Fundamental of Writing (3) OR		
Appropriate English placement test score			
+MAT090	Developmental Algebra (5) OR		
+MAT091	Introductory Algebra (4) OR		
+MAT092	Introductory Algebra (3) OR		
+MAT093	Introductory Algebra/Math		
Anxiety Reduction (5) OR			
Satisfactory score on District			

REQUIRED COURSES: 33 CREDITS

Students must obtain First Aid/ Cardiopulmonary Resuscitation (CPR)

certification by	v the comple	etion of EUT215.

+ENG101	First-Year Composition	.3
+ENG111	Technical Writing (3) OR	
+ENG102	First-Year Composition (3)	.3
EUT110	Line Work I	2
+EUT112	Basic Electricity: AC and DC	4
+EUT115	Field Training I	6
+EUT210	Line Work II	2
+EUT211	Electrical Apparatus	4
+EUT215	Field Training II	6
+MAT122	Intermediate Algebra	3

RESTRICTED ELECTIVES: 15 CREDITS

Selection must be from a minimum of 2 different course prefixes.

Selected courses will not apply in both the Required and Restricted Electives areas.

nequired and i	lestricted Liectives areas.
ACC++++	Any ACC Accounting courses
BPC++++	Any BPC Business-Personal
	Computer courses
CAD+++++	Any CAD Computer-Aided
	Drafting courses
CIS++++	Any CIS Computer-Information
	Systems courses
COM++++	Any COM Communication
	courses
DFT++++	Any DFT Drafting courses
EEE+++++	Any EEE Electrical
	Engineering courses
ELE++++	Any ELE Electronic courses
ELT++++	Any ELT Electronics Technology
EMT++++	Any EMT Emergency Medical
	Technology courses
HES++++	Any HES Health Science courses
GBS++++	Any GBS General
	Business courses
MET++++	Any MET Manufacturing
	Technology courses
NET++++	Any NET Networking

Technology courses

Any PED Physical Education

Courses available at CGCC are listed in the Course Descriptions section of this document. General Education Requirements are also listed. For the most current information regarding degree requirements log on to www.maricopa.edu/academic/ccta.

PED+++++

	courses
PHY++++	Any PHY Physics courses
PPT++++	Any Power Plant Tech. courses
SPA++++	Any Spanish Courses
GENERAL I	EDUCATION: 13-16 CREDITS
CORE: 3-6	CREDITS
FIRST-YEAR	RCOMPOSITION
•	101 AND ENG102 OR ENG111 in ourses area0
ORAL COM	MUNICATION
Any approve	ed general education course in the
Oral Commi	unication area3
CRITICAL R	EADING
+CRE101	College Critical Reading
	and Critical Thinking (3) OR
Equivalent a	s indicated by assessment3
MATHEMAT	TICS
Met by MAT	122 in Required Courses area0
	TION: 10 CREDITS
	ES AND FINE ARTS
	ed general education course in the
Humanities	and Fine Arts area3
SOCIAL AN	D BEHAVIORAL SCIENCES
Any approve	ed general education course in the
Social and B	ehavioral Sciences area3
NATURAL S	CIENCES
Any approve	ed general education course in the

Natural Sciences area.....

Electric Utility Technology

CERTIFICATE OF COMPLETION: CCL 5055

30 Credits

PROGRAM CONTACT:

MARK WEAVER ~ (480) 988-8255

mark.weaver@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion in Electric Utility Technology program is designed to prepare the student for the position of an apprentice-level line worker who is familiar with the use of tools, materials, and the equipment of the electric utility industry. Students will be trained in power line installation and maintenance, pole climbing and use of tools, truck and equipment operation, and overhead and underground distribution, construction, and maintenance of electrical lines.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Student must provide an Arizona Department of Transportation Medical Certification to the Division Office of Aviation and Applied Technology prior to the first class period for EUT115.

Students must obtain a Commercial Drivers(tm) License from the State of Arizona prior to completion of the Required Courses.

Students must obtain First Aid/ Cardiopulmonary Resuscitation (CPR) certification by the completion of EUT215.

ADMISSION CRITERIA

Math assessment:

English assessment:

REQUIRED COURSES: 30 CREDITS

EUT103	Introduction to Rigging2
EUT104	Equipment Safety & Operation. 2
EUT110	Line Work I2
+EUT112	Basic Electricity: AC and DC 4
+ EUT115	Field Training I4
+ EUT210	Line Work II2
+ EUT211	Electrical Apparatus4
+ EUT215	Field Training II4
+MAT122	Intermediate Algebra3
PPT120	3. Energy Industry Fundamentals

Engineering

Engineering Technology

ASSOCIATE IN APPLIED SCIENCE: AAS 3228

63-93 Credits

PROGRAM CONTACT:

BASSAM MATAR ~ (480) 732-7139

b.matar@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Engineering Technology program is designed to provide skills required of entry-level engineering technicians. Students are provided with the fundamentals of physics, engineering, computer hardware, programming, engineering design fundamentals, and computer software program usage. A solid foundation in mathematics, science, communication skills, humanities, and social sciences provides a well-rounded curriculum.

PROGRAM NOTES

+ indicates course has prerequisites and/or corequisites.

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

Overall program minimum G.P.A. = 3.00.

PROGRAM PREREQUISITES: 0-17 CREDITS

The credit hour range is subject to change depending on the student's educational experiences. PHY111 AND PHY112 are also strongly recommended for those who have

not completed one year of high school		+MAT231	Calculus with Analytic
physics with a grade of C or better.			Geometry II (4) 4-5
+MAT120	Intermediate Algebra (5) OR	+MAT240	Calculus with Analytic
+MAT121	Intermediate Algebra (4) OR		Geometry III (5) OR
+MAT122	Intermediate Algebra (3) OR	+MAT241	Calculus with Analytic
	assessment0-5		Geometry III (4) 4-5
+MAT187	Precalculus (5) OR	+MAT276	Modern Differential
+MAT150	College Algebra/		Equations (4) OR
TIVIALIDO	Functions (5) OR	+MAT277	Modern Differential
+MAT151	College Algebra/		Equations (3)3-4
TIVIALIDI	Functions (4) OR	+PHY115	University Physics I (5) OR
+MAT152		+PHY121	University Physics I:
+IVIAI 132	College Algebra/ Functions (3) AND		Mechanics (4)4-5
.NAAT102	, ,	+PHY116	University Physics II (5) OR
+MAT182	Plane Trigonometry (3) OR	+PHY131	University Physics II: Electricity
•	assessment		and Magnetism (4) 4-5
CHM130	Fundamental Chemistry (3) AND		
CHM130LL	Fundamental Chemistry Lab (1) OR		ELECTIVES: 16-20
CHM130AA	Fundamental Chemistry	Students sho	uld select 16-20 credits from the
	with Lab (4) OR	following list	of electives based on their area
One year of hi	gh school chemistry with a	of Engineerin	ng and interests. Consultation
grade of "C" or	r better taken within the	with Program	n Director is recommended
last five years	0-4	particularly fo	or students considering transfer
		to the univer	sity so that they optimize their
	COURSES: 32-38	transferable o	course work.
+ECE102	Engineering Analysis Tools	.DIO101	Compared Diology (Majore) I
	and Techniques (2) OR	+BIO181	General Biology (Majors) I4
+ECE102AA	Engineering Analysis Tools	+BIO182	General Biology (Majors) II4
	and Techniques (2)2	+CHM150	General Chemistry I (4) OR
+ECE103	Engineering Problem Solving and Design (2) OR	+CHM151	General Chemistry I (3) AND
+ECE103AB	Engineering Problem Solving	+CHM151LL	General Chemistry I
LCLIOSAD	and Design (2)2		Laboratory (1) OR
+EEE202	Circuits and Devices5	+CHM150AA	General Chemistry I (5) OR
+MAT220	Calculus with Analytic	+CHM151AA	General Chemistry I (5) 4-5
110 (1220	Geometry I (5) OR	+CHM152	General Chemistry II (3)
+ MAT221	Calculus with Analytic	- ···	AND
· 141/31 ZZ 1	Geometry I (4) 4-5	+CHM152LL	General Chemistry II
+MAT230	Calculus with Analytic		Laboratory (1) OR
1111/11/20			
	Geometry II (5) OR		•

+CHM152AA	General Chemistry II (4)4	+CSC/EEE220	Programming for Computer
+CHM230	Fundamental Organic		Engineering3
	Chemistry (3) AND	+CSC/EEE230	Computer Organization and
+CHM230LL	Fundamental Organic		Assembly Language4
	Chemistry Laboratory (1) OR	GLG101	Introduction to Geology I -
+CHM235	General Organic		Physical Lecture3
	Chemistry I (3) AND	+MAT225	Elementary Linear Algebra3
+CHM235LL	General Organic	+MAT227	Discrete Mathematical
	Chemistry I Laboratory (1)4		Structures3
+CHM236	General Organic	+PHY241	University Physics III:
	Chemistry IIA (3) OR		Thermodynamics, Optics,
+CHM238	General Organic		and Wave Phenomena4
	Chemistry IIB (3)3		
+CSC100	Introduction to Computer	GENERAL ED	DUCATION: 15-18 CREDITS
	Science (C++) (3) OR		
+CSC100AA	Introduction to Computer	CORE: 9-12 C	CREDITS
	Science (C++) (3) OR	FIDOT VEAD	COMPOSITION
+CSC100AB	Introduction to Computer		COMPOSITION First Very Composition (2) OR
	Science (C++) (4) OR	+ENG101	First-Year Composition (3) OR
+CSC110	Introduction to Computer	+ENG107	First-Year Composition
	Science (Java) (3) OR		for ESL (3) AND
+CSC110AB	Introduction to Computer	+ENG102	First-Year Composition (3) OR
	Science (Java)(4)3-4	+ENG108	First-Year Composition
+CSC205	Object Oriented Programming		for ESL (3)6
	and Data Structures (3) OR	ORAL COMM	LINICATION
+CSC205AB	Object Oriented Programming		
	and Data Structures (4) 3-4		general education course from
+CSC/EEE120	Digital Design		munication area3
	Fundamentals (4) OR	COM100 or CO	DM110 or COM230 recommended.
+ECE216	Computer-Aided		
	Engineering (2) AND	CRITICAL REA	
+ECE216LL	Computer-Aided Engineering	+CRE101	College Critical Reading
2022.022	Laboratory (1)3-4		and Critical Thinking (3) OR
ECE105	MATLAB Programming1	+CRE111	Critical Reading for Business
ECE103	Bioengineering Systems3		and Industry (3) OR
+ECE211	Engineering Mechanics-	Equivalent as i	indicated by assessment0-3
+LCL211	Statics		
+ECE212	Engineering Mechanics-	MATHEMATIC	
⊤LCL∠I ∠			athematics course listed in the
,ECE214	Dynamics3	Required Cou	rses area0
+ECE214	Engineering Mechanics4		
+ECE215	Mechanics of Materials3	DISTRIBUTIO	ON: 6 CREDITS

HUMANITIES AND FINE ARTS

Any approved general studies course in the Humanities and Fine Arts Area3

SOCIAL AND BEHAVIORAL SCIENCES

NATURAL SCIENCES

Met by PHY115 or PHY121 in the Required Courses Area.....0

•••••••••

Emergency Medical Technology

Emergency Medical Technology

CERTIFICATE OF COMPLETION: CCL 5643N

9-16 Credits

PROGRAM CONTACT:

SHERRICK BADER ~ (480) 988-8101

sherrick.bader@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Emergency Medical Technology program includes techniques of emergency care, stabilization, and immobilization of victims of illness and injury. Recognition and documentation of signs and symptoms of illness and injury, intervention, and evaluation of the intervention, techniques for assessment, administration of oxygen, use of specific immobilization devices, and preparation for transportation are other areas of the program. This program is a prerequisite to other emergency response programs.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

EMT104 requires students to complete additional hours in a competency-based clinical, vehicular, and/or scenario based experience. Depending on the college, this may be completed through EMT104AB or program director-approved rotation.

Overall program minimum G.P.A. = 2.50

REQUIRED COURSES: 9-16 CREDITS

+CRE101	College Critical Reading
	and Critical Thinking3
	AND
+ENG101	First-Year Composition (3) OR
+ENG107	First-Year Composition
	for ESL (3)6
	OR
+CRE111	Critical Reading for Business
	and Industry (3) OR
Equivalent as in	ndicated by assessment 0-6
EMT101	Cardiopulmonary Resuscitation/
	Basic Cardiac Life Support (0.5)
	OR
Current validat	ion in Basic Life Support (BLS)
Health Care Pro	ovider/Professional Rescuer (0)
	OR
Permission of F	Program Director (0)0-0.50
+EMT/FSC104	Emergency Medical
	Technology (9) AND
+EMT/FSC104AB Applied Practical Studies	
	for Emergency Medical
	Technology (0.5) OR
+EMT/FSC104	Emergency Medical
	Technology (9)9-9.5

Linux Networking

Linux Professional

CERTIFICATE OF COMPLETION: CCL 5204

12 Credits

PROGRAM CONTACT:

TOM PEARSON ~ (480) 726-4131

tom.pearson@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Linux Professional program is designed to help to prepare students for a variety of industry-recognized Linux certification exams as well as provide practical handson 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 help develop a student's knowledge and skill level in preparation for employment or to improve current professional skills. Objectives for a variety of industry certifications are encompassed within course and program objectives.

PROGRAM NOTES

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

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

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 6 CREDITS		
CIS126DL	Linux Operating System3	
+CIS238DL	Linux System Administration3	

DECLUBED COURSES, & CREDITS

RESTRICTED	ELECTIVES: 6 CREDITS
+BPC170	A+ Exam Prep: Computer
	Hardware Configuration and
	Support3
+BPC270	A+ Exam Prep: Operating System
	Configuration and Support3
CIS105	Survey of Computer
	Information Systems3
+CIS197	VMware ESXI Server Enterprise .4
CIS121AH	Microsoft PowerShell/
	Command Line Operations3
+CIS226AL	Internet/Intranet Server
	Administration-Linux3
+CIS239DL	Linux Shell Scripting3
+CIS240DL	Linux Network Administration3
+CIS241DL	Apache Web Server
	Administration (Linux/Unix)3
+CIS270	Essentials of Network and
	Information Security3
+CIS271DL	Linux Security3
+CIS190	Introduction to Local Area
	Networks (3) OR
CNT140AA	Introduction to Networks (4) OR
MST140	Microsoft Networking
	Essentials (3) 3-4
+CNT150AA	Cisco - Routing and Switching
	Essentials4
MST150++	Microsoft Windows
	(any suffixed course)3
CIS280	Current Topics in Computing3
+CIS290++	Computer Information

Systems Internship

(any suffixed course) 1-3

Massage

Massage Therapy

ASSOCIATE IN APPLIED SCIENCE: AAS 3144

61-68 Credits

PROGRAM CONTACT:

DR. GREGORY TRONE ~ (480) 732-7289

gregory.trone@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Massage Therapy program is designed to provide students with the philosophical foundation and technical skills required to perform therapeutic massage. The program is designed to develop knowledge and skills to manage a private massage practice and/or work in collaboration with other health field professionals. In addition, the program is designed to meet the State of Arizona licensure qualifications. Students in the Massage Therapy program may be exposed to potentially infectious blood, tissues, and body fluids. A Certificate of Completion (CCL) is also available.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Students must attend an orientation prior to applying to the program and be advised by the Program Director.

A special application must be completed to be officially accepted in the program.

Contact the Program Director or Advisement to obtain the Massage Therapy Program packet.

Overall program minimum G.P.A. = 2.00.

ADMISSION CRITERIA

High school diploma or GED. Completion of Program Prerequisites courses with a grade of "C" or better. Proof of current immunization: Measles, Mumps, and Rubella (MMR), tuberculosis skin test (TB), varicella, tetanus, diphtheria, and Hepatitis B vaccine (HEB). Successful completion of interview process. Have the ability to fully participate in classroom, laboratory, or clinical setting program activities. Submit current CPR card for Health Care Provider and maintain current status throughout the practicum(s). Complete and submit the health declaration form signed by a licensed health care provider. Submit to a drug screening and demonstrate negative results. Formal application and admission to the program are required.

BACKGROUND CHECK REQUIREMENTS

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply

with al	I requirements of the current MCCCD
backgr	ound check policy.

PROGRAM PREREQUISITES: 11-15 CREDITS

Students must earn a grade of "C" or better for all courses in the Program Prerequisites area.
Students must select Option 1 or Option 2.

OPTION 1:	15 CREDITS
BIO160	Introduction to Human
	Anatomy and Physiology4
HCC130	Fundamentals in
	Health Care Delivery3
HCC145AA	Medical Terminology for
	Health Care Professionals I1
WED151	Introduction to Alternative
	Medicine3
WED165	Overview of
	Massage Therapy2
WED215	Self-Care for Health
	Care Providers2

OPTION 2: 11 CREDITS

00110114

Option 2 is for students who have completed an Associate in Applied Science degree or higher degree in a health science discipline from a regionally accredited institution of higher education recognized by The Maricopa Community Colleges.

BIO160	Introduction to Human
	Anatomy and Physiology4
WED151	Introduction to Alternative
	Medicine3
WED165	Overview of Massage Therapy 2
WED215	Self-Care for
	Health Care Providers2

REQUIRED COURSES: 24 CREDITS

MGT253	Owning and Operating a
	Small Business (3) OR
WED204	Establishing a Massage
	Practice (3)3
+WED230	Therapeutic Massage
	Practices I6
+WED231	Therapeutic Massage
	Practices II6
+WED232	Therapeutic Massage
	Practices III6
+WED250	Clinical Practicum (3) OR
+WED250AA	Clinical Practicum: Part I (1.5)
	AND
+WED250AB	Clinical Practicum: Part II (1.5)3

RESTRICTED ELECTIVES: 8 CREDITS

Students must select a minimum of one (1) course from each category for a total of eight (8) credits.

CATEGORY I: General

HES100

Select a minimum of one (1) course from Category I.

1123100	ricartiful Living
HES271	Prevention and Treatment
	of Athletic Injuries3
WED297AC	Special Topics:
	Therapeutic Massage3

Healthful Living

3

CATEGORY II: Hands-on

Select a minimum of one (1) course from Category II. Permission of Program Director is required.

WED125	Reiki: Healing and Symbols	2
WED135	Gentle Touch for Individuals	
	Living with Cancer	2
+WED210	Sports Massage	2
+WED225	Reiki: Master Level and	
	Teacher Training	2
WED262	Acupressure/Shiatsu I	2

WED297AB	Special Topics: Therapeutic	PED201YO	Yoga - Advanced (1)1
	Massage2	PED/WED121	Physical Conditioning for
	-		Massage Therapists1
	: Specialty Exploration		
Category III.	mum of one (1) course from	GENERAL ED	OUCATION: 18-21 CREDITS
WED156	Humor and Play1	CORE:12-15 (CREDITS
WED160	Ethics of Touch Massage0.5		
WED162	Meditation and Wellness1	FIRST-YEAR (COMPOSITION
WED170	Principles of Homeopathy1	+ENG101	First-Year Composition (3) OR
WED172	Overview of Herbal Remedies1	+ENG107	First-Year Composition
WED176	Flower Essences1		for ESL (3) AND
WED182	Health Conditions and	+ENG102	First-Year Composition (3) OR
	Popular Herbs2	+ENG108	First-Year Composition
WED183	Introduction to Ayurvedic		for ESL (3)6
	Principles2		(-,
WED218	Aromatherapy1	ORAL COMM	UNICATION
WED228	Aromatherapy: Therapeutic	+Any approved	d general education course from
	Applications2	the Oral Comr	nunication area3
WED297AA	Special Topics: Therapeutic		
	Massage1	CRITICAL REA	ADING
		+CRE101	College Critical Reading
	: Physical Activity		and Critical Thinking (3) OR
Select a minir Category IV.	mum of one (1) course from	Equivalent as i	ndicated by assessment 0-3
PED101AK	Aikido (1) OR	MATHEMATIC	:s
PED102AK	Aikido - Intermediate (1) OR		d general education course in the
PED101PS	Pilates (1) OR		area3
PED102PS	Pilates - Intermediate (1) OR	Matricinaties	
PED103PS	Pilates (0.5)	DISTRIBUTIO	N: 6 CREDITS
	(May be repeated) (1) OR		
PED201PS	Pilates - Advanced (1)1	HUMANITIES	AND FINE ARTS
PED101TC	Tai Chi (1) OR	Any approved	general education course in the
PED102TC	Tai Chi - Intermediate (1) OR	Humanities ar	nd Fine Arts area3
PED103TC	Tai Chi (0.5)		
	(May be repeated) (1) OR	SOCIAL AND	BEHAVIORAL SCIENCES
PED201TC	Tai Chi - Advanced (1)1	REC120	Leisure and the Qualify of Life3
PED101YO	Yoga (1) OR		
PED102YO	Yoga - Intermediate (1) OR	NATURAL SC	
PED103YO	Yoga (0.5)	Met by BIO160) in Program Prerequisites area0
	(May be repeated) (1) OR		

Massage Therapy

CERTIFICATE OF COMPLETION: CCL 5144

39-43 Credits

PROGRAM CONTACT: DR. GREGORY TRONE ~ (480) 732-7289

gregory.trone@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Massage Therapy program is designed to provide students with the philosophical foundation and technical skills required to perform therapeutic massage. The program is designed to develop knowledge and skills to manage a private massage practice and/ or work in collaboration with other health field professionals. In addition, the program is designed to meet the State of Arizona licensure qualifications. Students in the Massage Therapy program may be exposed to potentially infectious blood, tissues and body fluids. An Associate in Applied Science (AAS) degree is also available.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Students must attend an orientation prior to applying to the program and be advised by the Program Director.

A special application must be completed to be officially accepted in the program.

Contact the Program Director or Advisement to obtain the Massage Therapy Program packet.

Overall program minimum G.P.A. = 2.00.

ADMISSION CRITERIA

High school diploma or GED. Completion of Program Prerequisites courses with a grade of "C" or better. Proof of current immunization: Measles, Mumps, and Rubella (MMR), tuberculosis skin test (TB), varicella, tetanus, diphtheria, and Hepatitis B vaccine (HEB). Successful completion of interview process. Have the ability to fully participate in classroom, laboratory, or clinical setting program activities. Submit current CPR card for Health Care Provider and maintain current status throughout the practicum(s). Complete and submit the health declaration form signed by a licensed health care provider. Submit to a drug screening and demonstrate negative results. Formal application and admission to the program are required.

BACKGROUND CHECK REQUIREMENTS:
Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community
College District Supplemental Background
Check policy. Program applications will not be accepted without a copy of an Arizona
Department of Public Safety Level One
Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

PROGRAM PREREQUISITES: 11-15 CREDITS Students must earn a grade of "C" or better for

all courses in the Program Prerequisites area.		+WED232	Therapeutic Massage
Students must select Option 1 or Option 2.			Practices III6
		+WED250	Clinical Practicum (3) OR
OPTION 1: 15	CREDITS	+WED250AA	Clinical Practicum: Part I (1.5)
BIO160	Introduction to Human Anatomy		OR
	and Physiology4	+WED250AB	Clinical Practicum: Part II (1.5)3
HCC130	Fundamentals in Health		
	Care Delivery3		ELECTIVES: 4 CREDITS
HCC145AA	Medical Terminology for Health		st select from different categories
	Care Professionals I1	for a total of f	four (4) credits.
WED151	Introduction to Alternative	Student shou	ıld select from the following
	Medicine3	categories in	consultation with the Program
WED165	Overview of Massage Therapy2	Director.	
WED215	Self-Care for Health		
	Care Providers2	CATEGORY I:	General
		HES100	Healthful Living3
OPTION 2: 11	CREDITS	HES271	Prevention and Treatment of
Option 2 is fo	or students who have completed		Athletic Injuries3
an Associate in Applied Science degree or		WED297AC	Special Topics:
higher degree in a health science discipline			Therapeutic Massage3
from a regionally accredited institution of			
higher education recognized by The Maricopa		CATEGORY II:	Hands-on
Community Colleges.		Permission of	f Program Director is required.
BIO160	Introduction to Human Anatomy	WED125	Reiki: Healing and Symbols2
	and Physiology4	WED135	Gentle Touch for Individuals
WED151	Introduction to Alternative		Living with Cancer2
	Medicine3	+WED210	Sports Massage2
WED165	Overview of Massage Therapy 2	+WED225	Reiki: Master Level and
WED215	Self-Care for Health Care		Teacher Training2
	Providers2	WED262	Acupressure/Shiatsu I2
		WED297AB	Special Topics:
REQUIRED COURSES: 24 CREDITS			Therapeutic Massage2
MGT253	Owning and Operating a Small		, 3
	Business (3) OR	CATEGORY III	: Specialty Exploration
WED204	Establishing a Massage	WED156	Humor and Play1
	Practice (3)3	WED160	Ethics of Touch Massage0.5
+WED230	Therapeutic Massage	WED162	Meditation and Wellness1
	Practices I6	WED170	Principles of Homeopathy1
+WED231	Therapeutic Massage	WED172	Overview of Herbal Remedies1
	Practices II6	WED176	Flower Essences1

WED182	Health Conditions and
	Popular Herbs2
WED183	Introduction to Ayurvedic
	Principles2
WED218	Aromatherapy1
WED228	Aromatherapy: Therapeutic
	Applications2
WED297AA	Special Topics:
	Therapeutic Massage1
Category IV: F	Physical Activity
PED101AK	Aikido (1) OR
PED102AK	Aikido - Intermediate (1) OR
PED101PS	Pilates (1) OR
PED102PS	Pilates - Intermediate (1) OR
PED103PS	Pilates (0.5)
	(May be repeated)(1) OR
PED201PS	Pilates - Advanced (1)1
PED101TC	Tai Chi (1) OR
PED102TC	Tai Chi - Intermediate (1) OR
PED103TC	Tai Chi (0.5)
	(May be repeated)(1) OR
PED201TC	Tai Chi - Advanced (1)1
PED101YO	Yoga (1) OR
PED102YO	Yoga - Intermediate (1) OR
PED103YO	Yoga (0.5)
	(May be repeated) (1) OR
PED201YO	Yoga - Advanced (1)1
PED/WED121	Physical Conditioning for
	Massage Therapists1

Microsoft Networking

Network Administration: Microsoft Windows Server

CERTIFICATE OF COMPLETION: CCL 5124

18 Credits

PROGRAM CONTACT: TOM PEARSON ~

(480) 726-4131

tom.pearson@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Network Administration: Microsoft Windows Server program provides students with background knowledge and skills required for learning the specific tasks and industry recognized standards associated with computer networks and data communications. This program also prepares students to complete the required certification tests for Microsoft Administrator.

PROGRAM NOTES

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

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

The Network core courses will also prepare students towards certification in Microsoft and Novell.

Overall program minimum G.P.A. = 2.00.

PROGRAM PREREQUISITES: NONE

REQUIRED COURSES: 15 CREDITS

+MST150	Microsoft Windows
	Professional (3) OR
+MST150++	Microsoft Windows
	Operating Systems
	(any suffixed course) (3)3
+MST155++	Windows Server Network
	(any suffixed course)4
+MST157++	Windows Server (any suffixed
	course)4
+MST158++	Windows Server (any suffixed
	course) 4

Courses available at CGCC are listed in the Course Descriptions section of this document. General Education Requirements are also listed. For the most current information regarding degree requirements log on to www.maricopa.edu/academic/ccta.

RESTRICTED ELECTIVES: 3 CREDITS

Students must select three (3) credits from the following courses:

CIS121AH	Microsoft PowerShell/
	Command Line Operations3
+CIS126++	Linux Operating System
	(any suffixed course) 1-3
+CIS166AC	Web Scripting with Active
	Server Pages (ASP).NET3
+CIS197	VMware ESXI Server
	Enterprise3
+CIS238++	UNIX/Linux System
	Administration (any suffixed
	course)3
+CIS276DB	SQL Server Database3
CNT++++	Any CNT Cisco Network
	Technology course 1-4
MST++++	Any MST Microsoft Technology
	course except courses used
	to satisfy Required Courses
	area 1-4

Mortuary Science Mortuary Science

ASSOCIATE IN APPLIED SCIENCE: AAS 5258

••••••••••

69-70 Credits

PROGRAM CONTACTS:

DR. THOMAS R. TAGGART ~ (480) 988-8501

tom.taggart@cgc.edu

DONNA G. BACKHAUS ~ (480) 988-8503

donna.backhaus@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Mortuary Science program includes studies in public health; business management; natural sciences; legal, ethical and regulatory concerns; and clinical requirements associated with the mortuary field. The curriculum combines coursework in mortuary science with a general education component. The AAS degree in Mortuary Science offered at Chandler-Gilbert Community College is accredited by the American Board of Funeral Service Education (ABFSE) 992 Mantua Pike, Suite 108, Woodbury Heights, N. J., 08097, 816-233-3747, www.abfse.org. Completion of the courses in program prepares the student to sit for the National Board examination and begin state internship requirements.

PROGRAM NOTES

+ indicates course has prerequisite and/or corequisites.

Overall program minimum G.P.A. = 2.00.

During the fall semester embalming lab, the student must provide his or her own transportation to preceptor-site embalming experiences at local funeral homes.

The nationally accredited Mortuary Science Program AAS degree at CGCC and students scores from the National Board Examination are transferable to states other than Arizona. The examination offered by the International Conference of Funeral Service Examining Boards (ICFSEB) has a fee of \$500 and is the responsibility of the student. Scores remain valid for life, even if students wait to practice in the funeral service profession. Licensure is on a state-by-state basis since each state does its own licensing.

ADMISSION CRITERIA

Students must have completed all first year course work with a minimum G.P.A. of 2.5, and must have proof of high school graduation or GED or permission of Program Director.

PROGRAM PREREQUISITES: 10-11 CREDITS		COM110	Interpersonal
ACC107	Bookkeeping Theory and	Communication (3)	
	Practice (4) OR		
ACC111	Accounting Principles I (3) 3-4	CRITICAL R	EADING
BPC/CIS+++++	Any BPC/CIS Business-Personal	+Any approv	ed general education course from
	Computers or Computer	the Critical R	eading area3
	Information Systems course1		
GBS205	Legal, Ethical, and Regulatory	MATHEMAT	ICS
	Issues in Business3	MAT112	Mathematical Concepts and
MGT253	Owning and Operating		Applications (3) OR
	a Small Business3	Equivalent C	R Satisfactory completion of a
		higher-level	mathematics course3
REQUIRED (COURSES: 34 CREDITS		
MSP101	Orientation to Funeral	DISTRIBUT	ION: 10 CREDITS
	Service1	LILIMANITIE	S AND FINE ARTS
MSP201	History and Sociology	_	
	of Funeral Service3	* * *	ed general education course in the
MSP202	Embalming4		Arts and Design area.
MSP203	Microbiology for Funeral	REL 100 IS IEC	.ommended
	Service3	SOCIAL ANI	D BEHAVIORAL SCIENCES
MSP204	Chemistry for Funeral Service3	PSY101	Introduction to
MSP205	Mortuary Administration I3		Psychology (3) OR
MSP206	Mortuary Administration II3	PSY156	Understanding Death
MSP207	Restorative Art4		and Dying (3)3
MSP208	Legal, Regulatory, and Ethical		aa. 2 yg (e),
	Issues in Funeral Service3	NATURAL S	CIENCES
MSP209	Pathology for Funeral Service3	BIO160	Introduction to Human Anatomy
MSP210	Counseling for Funeral Service2		and Physiology4
MSP211	Compendium for Funeral	•••••	•••••
	Service2	Music	Business
GENERAL EDUCATION: 25 CREDITS		Music B	Business
CORE: 15 CREDITS		ASSOCIATA AAS 3017	TE IN APPLIED SCIENCE:
First-Year Composition		60-63 Credit	rs
+Any approved general education course from			I CONTACT:
the First-Year Composition area6		TED GODE	
		(480) 857-5	
ORAL COMM	UNICATION		

Courses available at CGCC are listed in the Course Descriptions section of this document. General Education Requirements are also listed. For the most current information regarding degree requirements log on to www.maricopa.edu/academic/ccta.

Introduction to Human Communication (3) OR

COM100

ted.goddard@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Music Business program is an innovative curriculum designed to prepare students for today's music industry. The certificate and degree with a music business emphasis are designed for both the performing musician and the business student with limited performing experience. This program combines a flexible curriculum with an emphasis in business and marketing, along with music industry related courses and experiences.

PROGRAM NOTES

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

- + indicates course has prerequisite and/or corequisites.
- ++ indicates any module/suffixed courses.

 Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 14 CREDITS

REGUINED GOOKSES: 14 OKEDITO		
MUC109	Music Business:	
	Merchandising and the Law3	
MUC110	Music Business: Recording	
	and Mass Media3	
MUC293	Self Promotion for Music1	
+MUC209	Music Industry	
	Entrepreneurship (3) OR	
MGT253	Owning and Operating a	
	Small Business (3)3	
+MUC290AA	Music Business Internship1	
MHL++++	Any MHL Music: History/	
	Literature course3	

RESTRICTED ELECTIVES: 12 CREDITS

Students must select twelve (12) credits from the approved list of Restricted Elective courses to specialize in Music Production, Disc Jockey Techniques, Songwriting, Performance, Marketing, Business, or Communications. Students must consult with the Music Business Program Director, Music Department Chair or designee to select the Restricted Elective courses recommended for each specialization.

FREE ELECTIVES: 12 CREDITS

Students should choose twelve (12) credits from the following list of courses except courses used to satisfy the Restricted Electives area.

ACC111	Accounting Principles I3
BPC128	Introduction to Desktop
	Publishing1
CIS131AA	Doing Business on the Internet .1
GBS151	Introduction to Business3
+GBS233	Business Communication3
MKT110	Marketing and Social
	Networking3
MKT271	Principles of Marketing3
MTC101	Introduction to Music Theory (3)
OR higher level	MTC Music: Theory/
	Composition course (3)3
MTC113	Songwriting Techniques1
+MUC111	Digital Audio
	Workstation I (DAWI)3
MUC135	Introduction to Disc
	Jockey Techniques3
MUC145	Recording Studio
	Business Operations2
+MUC180	Computer Literacy for the
	Music Business3

MUC195	Studio Music Recording I (3) OR	
MUC195AA	Studio Music Recording I (3)3	
+MUC210	Advanced Industry Topics:	
	Concert Promotion and	
	Training3	
+MUC211	Advanced Industry Topics:	
	Artist Management and	
	Talent Development3	
MUC215	Music Industry Seminar:	
	Innovation in Music	
	Technology1	
+MUC240	Creative Music Production4	
+MUC241	Business Principles of	
	Music Production3	
MUC274AB	Music Industry Study Tour2	
+MUC295AB	Portfolio for Music1	
+MUC298AA	Special Projects1	
+MUC298AB	Special Projects2	
+MUC298AC	Special Projects3	
SBS230	Financial and Tax Management	
	for Small Business2	
GENERAL EDUCATION: 22-25 CREDITS		
CORE: 12-15 CREDITS		
FIRST-YEAR COMPOSITION		
Any approved general education courses from		

Any approved general education courses from the First-Year Composition area......6

ORAL COMMUNICATION

Any approved general education course from the Oral Communication area......3

CRITICAL READING

MATHEMATICS

+Any approved general education course from	1
the Mathematics area	:

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 education course from the Social and Behavioral Sciences area......3

NATURAL SCIENCES

Any approved general education course from the Natural Sciences area4

Music Business

CERTIFICATE OF COMPLETION: CCL 5258

26 Credits

PROGRAM CONTACT:

TED GODDARD ~ (480) 857-5182

ted.goddard@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Music Business program is an innovative curriculum designed to prepare students for today's music industry. The certificate and degree with a music business emphasis are designed for both the performing musician and the business student with limited performing experience. This program combines a flexible curriculum with an emphasis in business and marketing, along with music industry related courses and experiences.

PROGRAM NOTES

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

+ indicates course has prerequisite and/or corequisites.

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 11 CREDITS

MUC109	Music Business:	
	Merchandising and the Law3	3
MUC110	Music Business:	
	Recording and Mass Media3	3
MUC293	Self Promotion for Music1	
+MUC209	Music Industry	
	Entrepreneurship (3) OR	
MGT253	Owning and Operating a Small	
	Business (3)3	3
+MUC290AA	Music Business Internship1	

RESTRICTED ELECTIVES: 15 CREDITS

Students must select fifteen (15) credits from the approved list of Restricted Elective courses to specialize in Music Production, Disc Jockey Techniques, Songwriting, Performance, Marketing, Business or Communications.

Students must consult with the Music Business Program Director, Music Department Chair or designee to select the Restricted Elective courses recommended for each specialization.

Nursing

Nursing

ASSOCIATE IN APPLIED SCIENCE: AAS 3812

•••••••••••••••••

62-75 Credits

PROGRAM CONTACTS:

DIRECTOR OF NURSING KAREN FLANIGAN ~ (480) 988-8884

karen.flanigan@cgc.edu

NURSING ADVISOR MARIA DELA TORRE ~ (480) 988-8880

NURSING OFFICE TERESA HULL~ (480) 988-8881

teresa.hull@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Nursing Program is available at eight of the Maricopa Community Colleges. Clinical experiences are provided in a variety of healthcare settings. Nursing Program graduates are eligible to apply for the national exam for the registered nurse license. Licensing requirements are the exclusive responsibility of the State Board of Nursing.

The Associate in Applied Science (AAS)
Nursing Program is approved by the Arizona
State Board of Nursing and accredited by
the Accreditation Commission for Education
in Nursing (ACEN), 3343 Peachtree Road NE,
Suite 850, Atlanta, GA 30326; (404.975.5000);
email: info@acennursing.org

PROGRAM OFFERINGS

This program is offered at the following sites:

- Chandler-Gilbert Community College
- Estrella Mountain Community College
- Gateway Community College
- Glendale Community College
- Mesa Community College
- Paradise Valley Community College

- Phoenix College
- Scottsdale Community College

WAIVER OF LICENSURE/ CERTIFICATION GUARANTEE

Admission or graduation from the Nursing Program does not guarantee obtaining a license to practice nursing. Licensure 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 or 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.

Level One Fingerprint Clearance is required for admission into the program. Applicants must present a Level One Fingerprint Clearance Card to be copied by the advisor or designee. For a Department of Public Safety Fingerprint Clearance Card application, contact MCCCD Healthcare/Nursing Advisor. If there is any question about eligibility for licensure or certification, contact the nursing

education consultant at the Arizona State Board of Nursing (602.771.7800).

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. Students who have a chronic illness or condition must be maintained on current treatment and be able to implement direct patient care. 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. All must provide documentation of compliance with all health and safety requirements required to protect patient safety. Only students in compliance are permitted to enroll in nursing courses. Students will meet these requirements by providing the required documentation for the Health/Safety Requirements Documentation Checklist and the signed Health Declaration Form.

HEALTH & SAFETY REQUIREMENTS FOR THE MARICOPANURSING PROGRAM

 Students must submit a Health and Safety Documentation Checklist verifying

- completion of all requirements and maintain current status throughout the program.
- 2. Students must submit the Health Declaration Form signed by a licensed health care provider.
- 3. Students must test negative on a timed urine drug screen.
- 4. Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

UNIVERSITY TRANSFER STUDENTS

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 in 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, long term, and community-based healthcare 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 required within the program.

+ indicates course has prerequisites and/or corequisites.

Course Fee Information:

Please see class schedule for information regarding course fees.

Maricopa Nursing is aligned with Nurse of the Future Competencies: Patient-Centered Care, Professionalism, Leadership, Systems-Based Practice, Informatics and Technology, Communication, Teamwork and Collaboration, Safety, Quality Improvement, and Evidence-Based Practice. These competencies focus on key stakeholders of healthcare clients, colleagues and communities. Demonstration of the competencies will signify preparation for successful transition into nursing practice and further professional development.

ADMISSION CRITERIA

High School diploma or GED is required for the Associate in Applied Science degree in Nursing. Applicants must signify that they meet this requirement by providing high school diploma/transcripts or GED completion OR by signing the nursing application page containing the `Declaration of High School Graduation or GED completion`. In some instances, high school diploma/transcripts or proof of GED completion may be required.

Formal application and admission to the program is required; all program prerequisites must be completed prior to submission of application.

A passing score on a nursing program admission test is required to complete an application.

Applicants for Advanced Placement must receive a passing score on a practical nursing content exam for placement into Block 3.

The final decision rests with the Nursing Program Chair at the College to which the student is accepted.

The Nursing Program Chair reserves the right to deny acceptance of an admission application if the applicant was previously dismissed for issues relating to academic integrity, unsafe patient care, and/or two (2) or more failures from any nursing program.

All applicants holding or receiving a certificate as a Nursing Assisting and/or license as a Practical Nurse must remain in good standing with the Regulatory Board. Once enrolled, students receiving any disciplinary actions against their certificate or license must notify the Nursing Program Chair within five (5) school days. The Nursing Program Chair reserves the right to restrict the student's participation in clinical experiences and involvement in patient care until

the certificate and/or license is valid and unrestricted.

PROGRAM PREREQUISITES: 10-18 CREDITS

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
	biology0-4
+BIO201	Human Anatomy and
	Physiology I4
+CHM130	Fundamental Chemistry (3) AND
+CHM130LL	Fundamental Chemistry
	Laboratory (1) OR
	One year of high school
	chemistry0-4
+ENG101	First-Year Composition (3) OR
+ENG107	First-Year Composition
	for ESL (3)3
+MAT140	College Mathematics (5) OR
+MAT141	College Mathematics (4) OR
+MAT142	College Mathematics (3) OR
	Satisfactory completion of
	higher level math
	course3-5

REQUIRED COURSES: 36 CREDITS

+NUR152	Nursing Theory and	
	Science I	.9
+NUR172	Nursing Theory and	
	Science II	.9
+NUR252	Nursing Theory and	
	Science III	.9
+NUR283	Nursing Theory and	
	Science IV	.9

GENERAL EDUCATION: 16-19 CREDITS

CORE: 3-6 CREDITS

FIRST-YEAR COMPOSITION

Three (3) credits of First Year Composition are met by ENG101 or ENG107 in Program Prerequisites area.

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

ORAL COMMUNICATION

Waived0

CRITICAL READING

CRE101 College Critical Reading and Critical Thinking (3) OR Equivalent by

assessment 0-3

MATHEMATICS

Met by MAT140, OR MAT141, OR MAT142 OR Satisfactory completion of higher level mathematics course in Program Prerequisites area0

DISTRIBUTION:13 CREDITS

HUMANITIES AND FINE ARTS

Any approved general education course in the Humanities, Arts and Design area2

SOCIAL AND BEHAVIORAL SCIENCES

PSY101 Introduction to Psychology3

NATURAL SCIENCES

+BIO202 Human Anatomy and

Physiology II (4) AND

+BIO205 Microbiology (4).....8

Nutrition

Dietetic Technology

ASSOCIATE IN APPLIED SCIENCE: AAS 3840

63-72 Credits

PROGRAM CONTACT: SUSAN GAUMONT ~ (480) 732-7142

susan.gaumont@cgc.edu

PROGRAM DESCRIPTION

The Dietetic Technology program is an Associate in Applied Science (AAS) degree emphasizing medical nutrition therapy and food service management. Students acquire the knowledge and skills foundation to work in dietetics through the integration of classroom learning and 466 hours of supervised practice. Emphasis is placed on the development of communication and human relations techniques that prepare the graduate for professional success.

Upon successful completion of the program, the graduate will be eligible to take the Dietetic Technician Registration Examination of the Commission on Dietetic Registration (CDR).

JOB DESCRIPTION

The Dietetic Technician, Registered is prepared to play a key role in providing quality, cost-effective client care and food service management in a variety of employment settings. Job responsibilities may include patient counseling and education in basic and therapeutic nutrition, medical record documentation, health promotion and

disease prevention, menu development, and supervisory and administrative skills related to nutrition services and institutional food production.

OPPORTUNITIES

Dietetic Technicians are an integral part of health care and food service management teams. They work independently or in partnership with Registered Dietitians in a variety of settings: Clinical, Hospitals, clinics, nursing homes, retirement centers, home health care programs, and research facilities; food service; schools, daycare centers, correctional facilities, restaurants, hospitals, and long-term care facilities; Community and Public Health; WIC programs; wellness; health clubs, and weight management clinics; business; food companies, food venders, and food distributors

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. = 2.00.

PROGRAM PREREQUISITES: 0-4 CREDITS

CPR/AED Certification for Health Care Providers must be completed prior to registering for FON244, FON245 or FON246 practicum courses.

Students selecting BIO201 in the Required Courses area must complete BIO156 or

BIO181 in consultation with a program advisor.

+BIO156 Human Biology for Allied

Health (4) OR

BIO181 General Biology

(Majors) I (4) OR

Permission of Instructor 0-4.

REQUIRED C	OURSES: 41-45 CREDITS
BIO160	Introduction to Human
	Anatomy and Physiology (4) OR
+BIO201	Human Anatomy and
	Physiology I (4) AND
+BIO202	Human Anatomy and
	Physiology II (4)4-8
BPC110	Computer Usage and
	Application (3) OR
BPC101AA	Introduction to Computers I (1)
	AND
+BPC101BA	Introduction to Computers II (1)
	AND
+BPC101CA	Introduction to Computers III (1)
	OR
CIS114AE-CE	Spreadsheet Level I
	(any module.) (1) AND
CIS117AM-CM	Database Management Level I

CISTIT/AWI-CMI Database Management Level (any module) (1) AND

BPC/
OAS130D Beginning Word (1) OR

+FON207 Introduction to Nutrition
Services Management3

+FON210 Sports Nutrition and Supplements for Physical Activity

(3) OR

+FON247	Weight Management	+COM225	Public Speaking (3) OR
	Theory (3)3	COM230	Small Group
+FON225	Research in Complementary		Communication (3)3
	and Alternative Nutrition		
	Therapies3	CRITICAL RE	ADING
FON241	Principles of Human Nutrition3	+CRE101	College Critical Reading
+FON242	Introduction to Medical		and Critical Thinking (3) OR
	Nutrition Therapy3	+CRE111	Critical Reading for Business
+FON244AA	Practicum I: Food Service		and Industry (3) OR
	Management - Lecture2	Equivalent as	indicated by assessment3
+FON244AB	Practicum I: Food Service		
	Management - Lab2.5	MATHEMATIC	
+FON245AA	Practicum II: Medical	+MAT120	Intermediate Algebra (5) OR
	Nutrition Therapy2	+MAT121	Intermediate Algebra (4) OR
+FON245AB	Practicum II: Medical	+MAT122	Intermediate Algebra (3) OR
	Nutrition Therapy - Lab2.5		indicated by assessment OR
+FON246AA	Practicum III: Community	•	ompletion of any 3-5 credit
	Nutrition - Lecture2	mathematics	course higher than MAT120 3-5
+FON246AB	Practicum III: Community	DISTRIBUTION: 10 CREDITS	
	Nutrition - Lab2		
HCC145AA	Medical Terminology for Health	HIIMANITIE	S AND FINE ARTS
	Care Professionals I1		general education course in the
			nd Fine Arts area3
GENERAL ED	UCATION: 22-27 CREDITS	riarriarrices ai	TO THE ALGUERA
		SOCIAL AND	BEHAVIORAL SCIENCES
CORE: 12-17	CREDITS	PSY101	Introduction to
EIDST-VEAD (COMPOSITION		Psychology (3) OR
+ENG101		SOC101	Introduction to Sociology (3)3
+ENG101	First-Year Composition (3) OR First-Year Composition		
+EINGTU/		NATURAL SCIENCES	
+ENG102	for ESL (3) AND First-Year Composition (3) OR	+CHM130	Fundamental Chemistry (3)
+ENG102 +ENG108	First-Year Composition		AND
+EING 106	· •	+CHM130LL	Fundamental Chemistry
.ENC111	for ESL (3) OR Tochnical Writing (2)		Laboratory (1)4
+ENG111	Technical Writing (3)6		
ORAL COMM	UNICATION		
COM100	Introduction to Human		

Communication (3) OR

Communication (3) OR

Interpersonal

COM110

Personal Training

Exercise Science and Personal Training

ASSOCIATE IN APPLIED SCIENCE: AAS 3059

64-69.5 Credits

PROGRAM CONTACT:

DR. KIM MCGEE, ACSM (EP-C) ~ (480) 726-4246

kimberly.mcgee@cgc.edu

PROGRAM DESCRIPTION

The Associate in Applied Science (AAS) in Exercise Science and Personal Training program is designed to prepare students with the knowledge and experience required to be eligible for the American College of Sports Medicine (ACSM) personal trainer certification, the National Strength and Conditioning Association (NSCA) personal trainer certification, the National Academy of Sports Medicine (NASM) personal trainer certification and the American Council on Exercise (ACE) personal trainer certification. The curriculum is designed to strengthen students' educational background in fitness and nutrition potentially increasing their marketability in these fields. This degree may 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 may also find this program appropriate.

PROGRAM NOTES

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

+ indicates course has prerequisite and/or corequisites.

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 36-36.5 CREDITS

REQUIRED COURSES: 36-36.5 CREDITS			
EMT101	Cardiopulmonary		
	Resuscitation/Basic Cardiac		
	Life Support (0.50) OR		
HES106	Cardiopulmonary Resuscitation		
	(CPR)/Automated External		
	Defibrillator (AED) (0.5) OR		
Current Basic I	ife Support (BLS) Health		
Care Provider/	Professional Rescuer		
certification	0-0.50		
EXS101	Introduction to Exercise Science,		
	Kinesiology, and Physical		
	Education3		
EXS112	Professional Applications of		
	Fitness Principles3		
EXS125	Introduction to Exercise		
	Physiology3		
EXS130	Strength Fitness-Physiological		
	Principles and Training		
	Techniques3		
EXS132	Cardiovascular Fitness:		
	Physiological Principles and		
	Training Techniques3		
EXS145	Guidelines for Exercise Testing		
	and Prescription3		
EXS214	Instructional Competency:		
	Flexibility and Mind-Body		
	Exercises2		

EXS216	Instructional Competency:	FIRST YEAR	COMPOSITION
	Muscular Strength and	+ENG101	First-Year Composition (3) OR
	Conditioning2	+ENG107	First-Year Composition for
EXS218	Instructional Competency:		ESL (3) AND
	Cardiorespiratory Exercises and	+ENG102	First-Year Composition (3) OR
	Activities2	+ENG108	First-Year Composition for
+EXS239	Practical Applications of Personal		ESL (3)6
	Training Skills and Techniques		
	Internship (3) OR	ORAL COMM	UNICATION
+EXS239AA	Practical Applications of Personal	+COM225	Public Speaking3
	Training Skills and Techniques		
	Internship (1) AND	CRITICAL RE	
+EXS239AB	Practical Applications of Personal	+CRE101	College Critical Reading
	Training Skills and Techniques		and Critical Thinking (3) OR
	Internship (2)3	Equivalent as	indicated by assessment 0-3
FON100	Introductory Nutrition (3) OR	MATHEMATIC	ne e
FON105	Nutrition Principles for Fitness		
	Professionals (3) OR		d general education course hematics area except MAT112.
FON241	Principles of Human		g courses or higher are
	Nutrition (3)3	recommende	_
+FON210	Sports Nutrition and	recommende	eu.
	Supplements for Physical	+MAT120	Intermediate Algebra (5) OR
	Activity3	+MAT121	Intermediate Algebra (4) OR
+FON247	Weight Management Theory3	+MAT122	Intermediate Algebra (3) 3-5
RESTRICTED	ELECTIVES: 6 CREDITS	DISTRIBUTION: 10 CREDITS	
	l of six (6) credits from EXS, FON,	HUMANITIES AND FINE ARTS	
	d/or WED courses except courses	Any approved general education course from	
	Required Courses area.	the Humanities and Fine Arts area3	
	Any EXS Exercise Science courses		
FON+++++	Any FON Food and		BEHAVIORAL SCIENCES
	Nutrition courses	HES100	Healthful Living (3) OR
HES++++	Any HES Health Science courses	PSY101	Introduction to Psychology (3)3
SPM+++++	Any SPM Sports Management	NATURAL SC	HENCES
WED++++	Any WED Wellness	BIO160	Introduction to Human Anatomy
	Education courses	DIO 100	and Physiology (4) OR
		+BIO156	Introductory Biology for Allied
GENERAL E	DUCATION: 22-27 CREDITS		Health (4) OR
		+BIO181	General Biology (Majors) I (4)4
CORE: 12-17	CREDITS	· DIO 101	General biology (Majors) 1 (4)4

Developed Training Consciolist	DECLUBED C	OUDCEC, 06 21 CDEDITC
Personal Training Specialist	BIO160	OURSES: 26-31 CREDITS Introduction to Human Anatomy
CERTIFICATE OF COMPLETION:	DIO 100	and Physiology (4) OR
CCL 5445	+BIO156	Introductory Biology for Allied
32-34.5 Credits		Health (4) OR
PROGRAM CONTACT:	+BIO181	General Biology (Majors) I (4)4
DR. KIM MCGEE, ACSM (EP-C) ~	EMT101	Cardiopulmonary Resuscitation/
(480) 726-4246		Basic Cardiac Life
kimberly.mcgee@cgc.edu		Support (0.50) OR
PROGRAM DESCRIPTION	HES106	Cardiopulmonary Resuscitation
The Certificate of Completion (CCL) in		(CPR)/Automated External
Personal Training Specialist program is	Commont Dasis	Defibrillator (AED) (0.5) OR
designed to help prepare students for		Life Support (BLS) Health Care
employment in the fitness industry as a	certification	0-0.50
Personal Trainer. This curriculum provides	EXS101	Introduction to Exercise Science,
students with a fundamental knowledge		Kinesiology and Physical
of human physiology and anatomy,		Education3
. ,	EXS112	Professional Applications of
introduction into career options in the field		Fitness Principles3
of Exercise Science, Kinesiology and Physical	EXS125	Introduction to Exercise
Education/Coaching, emergency response		Physiology3
readiness, health appraisals and assessments;	EXS130	Strength Fitness: Physiological
application of exercise fitness principles		Principles and Training
and strength and cardiorespiratory training	EV6422	Techniques3
techniques; a fundamental knowledge	EXS132	Cardiovascular Fitness:
of nutrition, exercise physiology, and		Physiological Principles and Training Techniques3
biomechanics; skills in exercise testing and	EXS145	Guidelines for Exercise Testing
fitness measures as well as writing exercise	LASTAS	and Prescription3
prescriptions and program designs for diverse	FON100	Introductory Nutrition (3) OR
populations.	FON105	Nutrition Principles for Fitness
		Professionals (3) OR
PROGRAM NOTES	FON241	Principles of Human
+ indicates course has prerequisites and/or		Nutrition (3)3
corequisites.	+EXS239	Practical Applications of Personal
++ indicates any module/suffixed courses.		Training Skills and Techniques
Students must earn a grade of "C" or better in	+EXS239AA	Internship (3) OR Practical Applications of Personal
all courses within the program.	⊤L∧J∠J≯H H	Training Skills and Techniques
Overall program minimum G.P.A. = 2.00.		Internship (1) OR

+EXS239AB Practical Applications of Personal Training Skills and Techniques Internship (2)1-3

RESTRICTED ELECTIVES: 4-6 CREDITS

Choose a total of 4-6 credits from EXS, FON, HES, SPM, and/or WED courses except courses used to satisfy Required Courses area.

EXS+++++ Any EXS Exercise Science courses

FON+++++ Any FON Food and

Nutrition courses

HES+++++ Any HES Health Science courses

SPM+++++ Any SPM Sports

Management courses

WED+++++ Any WED Wellness

Education courses

Small Business

Small Business Start-Up

CERTIFICATE OF COMPLETION: CCL 5706

12 Credits

PROGRAM CONTACTS:

BETH NUNEVILLER ~ (480) 857-5134

beth.nuneviller@cgc.edu

LEE GARZA ~ (480) 732-7211

lee.garza@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Small Business Start-Up program is designed to meet the needs of individuals who wish to become entrepreneurs. Courses provide a background in marketing, management, finance, and a capstone course in which students complete a business plan. The goal

of the Small Business Start-Up certificate is to create a foundation for prospective small business owners and contribute to the longterm success of the business community.

PROGRAM NOTES

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

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 12 CREDITS

MGT253	Owning and Operating a
	Small Business3
MKT271	Principles of Marketing3
SBS213	Hiring and Managing
	Employees1
SBS214	Small Business
	Customer Relations1
SBS220	Internet Marketing for
	Small Business2
SBS230	Financial and Tax Management
	for Small Business2

Social Media Marketing

Social Media Marketing

CERTIFICATE OF COMPLETION: CCL 5830

17-20 Credits

PROGRAM CONTACTS:

NICKI MAINES ~ (480) 732-7394

nicki.maines@cqc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Social Media Marketing is designed to provide useful skills important in a variety of strategic

marketing areas, e.g., social media, digital communications, integrated marketing, media relations, and brand management.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. = 2.00.

PROGRAM PREREQUISITES: 0-3 CREDITS

+ENG101	First-Year Composition (3) OR
+ENG107	First-Year Composition for
	ESL (3) OR

Permission of Department or Division (0)....... 0-3

REQUIRED COURSES: 17 CREDITS

CIS103	Introduction to Social	
	Media3	
+GBS233	Business Communication (3) OR	
+JRN203	Writing for Online Media (3)3	
MKT271	Principles of Marketing3	
MKT110	Marketing and Social	
	Networking3	
+MKT111	Applied Marketing and	
	Social Networking3	
+GBS282AB	Volunteerism General	
	Business: Service Learning	
	Experience (2) OR	
+MKT280AB	Marketing Internship (2) OR	
+MKT296WB	Cooperative Education (2) OR	
+MKT298AB	Special Projects (2)2	

Sustainability

Sustainability

ACADEMIC CERTIFICATE: AC 6240N

15-17 Credits

PROGRAM CONTACT:

CHRIS SCHNICK ~ (480) 732-7274

chris.schnick@cgc.edu

PROGRAM DESCRIPTION

The Academic Certificate (AC) in Sustainability is interdisciplinary and builds a strong academic expertise along one of five significant pillars of sustainability, where students will examine and assess how to minimize unintended consequences and enhance a mutually productive relationship between man and nature. The five pillars are organized into specialized tracks, including land use and human transformations of the earth, competition for water and other natural resources from the earth systems, political and economic treatment of the earth, coupled human-environment interactions, and entrepreneurship for transforming ideas for sustainable products/services into viable businesses.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

Overall program minimum G.P.A. = 2.00.

PROGRAM PREREQUISITES: 0-6 CREDITS		CHM107 + CHM107LL	Chemistry and Society (3) and Chemistry and Society
Students selecting GPH211 or GPH210 must		T CHIWITO/LL	Laboratory (1)4
•	following prerequisites:	ASM104	Bones, Stones, and Human
ENG101	First-Year Composition3		Evolution4
ENG107	First-Year Composition		
	for ESL3 or equivalent3	Students will following list:	choose one (1) course from the
ADD	·	ASB226	Human Impacts on Ancient
6			Environment3
following prei	ting HRM290 must complete the	COM263	Elements of Intercultural
HRM110	Introduction to Hospitality		Communication3
THUVITIO	and Tourism Management3	ENH206	Nature and Environmental
	and rounsminianagement		Literature3
REQUIRED C	OURSES: 6 CREDITS	ENH260	Literature of the Southwest3
SSH111	Sustainable Cities3	GCU102	Introduction to Human
SUS110	Sustainable World3		Geography3
		GCU141	Introduction to Economic
RESTRICTED	ELECTIVES: 9-11 CREDITS		Geography3
_		HUM201	Humanities: Universal
	t select one (1) of the following		Themes3
five (5) tracks:		PHI216	Environmental Ethics3
Track I: Sustain	ability: Earth Systems10-11	POS120	World Politics3
		+RDG112	Successful College Reading for
	t choose two (2) courses from		Life Sciences, Mathematics,
the following			Physical Sciences or
+ AGS260	Soils4		Technology3
BIO105 BIO108	Environmental Biology4	SBU200	Society and Business3
	Plants and Society4	SOC251	Social Problems3
+ BIO181	General Biology (Majors) I4	SUS100	Introduction to Sustainability3
+ BIO182 GLG110	General Biology (Majors) II4	Track II: Sustair	nability: Social, Political, Economic
GLGTIU	Geological Disasters and the	Treatment of the Earth9-10	
CI C111	Environment (3) and4		
GLG111	Geological Disasters and the	Students will	choose two (2) courses from the
CI C140	Environment Lab (1)4	following list:	
GLG140	Introduction to Oceanography3	ASB102	Culture in a Globalizing
GPH111	Introduction to Physical		World3
+ GPH211	Geography4 Landform Processes4	SUS100	Introduction to Sustainability3
GPH213	Climate and Weather (3) and	COM263	Elements of Intercultural
+ GPH215	Climate and Weather		Communication3
T GF11213			
	Laboratory (1)4		

Courses available at CGCC are listed in the Course Descriptions section of this document. General Education Requirements are also listed. For the most current information regarding degree requirements log on to www.maricopa.edu/academic/ccta.

ECN212	Misus san auris Duin sinles	A.C.D.2.2.2	D : 16''' 11 17''
ECN212	Microeconomic Principles3 The Economics of Natural	ASB223	Buried Cities and Lost Tribes:
+ECN263		ACD226	New World (3)3
	Resources, Population	ASB226	Human Impacts on Ancient
CC11102	and the Environment3	5014050	Environments3
GCU102	Introduction to Human	COM263	Elements of Intercultural
CCI 14.4	Geography3	E1111004	Communication3
GCU141	Introduction to Economic	ENH206	Nature and Environmental
	Geography3		Literature3
+HRM290	Ecotourism3	ENH260	Literature of the Southwest3
POS120	World Politics3	HUM201	Humanities: Universal
PSY132	Psychology and Culture3		Themes3
SBU200	Society and Business3	PHI216	Environmental Ethics3
SOC180	Social Implications of	REC150AB	Outdoor Adventure Skills3
	Technology3		
			I choose one (1) to two (2) course
	st choose one (1) to two (2) the following list:	from the foll	=
BIO105		ASM104	Bones, Stones, and Human
	Environmental Biology4	DIO105	Evolution4
+ BIO181	General Biology (Majors) I4	BIO105	Environmental Biology4
+ BIO182	General Biology (Majors) II4	BIO108	Plants and Society4
CHM107	Chemistry and Society (3) and	+ BIO181	General Biology (Majors) I4
CHM107LL	Chemistry and Society	+BIO182	General Biology (Majors) II4
	Laboratory (1)4	CHM107	Chemistry and Society (3) and
ENH206	Nature and Environmental	CHM107LL	Chemistry and Society
	Literature3		Laboratory (1)4
ENH260	Literature of the Southwest3	GLG110	Geological Disasters and the
GLG110	Geological Disasters and the		Environment (3) AND
	Environment (3) AND	GLG111	Geological Disasters and the
GLG111	Geological Disasters and the		Environment Lab (1)4
	Environment Lab (1)4	+GPH210	Society and Environment3
+GPH210	Society and Environment3	PHI104	World Philosophy3
HUM201	Humanities: Universal Themes3	POS120	World Politics3
PHI216	Environmental Ethics3	Track IV: Sust	ainability: Human Transformation
Track III: Susta	ninability: Coupled Human-	of the Earth	9-11
	Systems9-10	or the Larth	J 11
LITVIIOIIITIETIC	Jystems7 10	Students wil	I choose 9-11 credits from the
Students will	choose two (2) courses from the	following list	
following list		ASB100	Introduction to Global
ASB102	Culture in Globalization		Health3
	World3	ASB226	Human Impacts on Ancient
ASB222	Buried Cities and Lost Tribes:		Environments3
	Old World (3) OR		

Courses available at CGCC are listed in the Course Descriptions section of this document. General Education Requirements are also listed. For the most current information regarding degree requirements log on to www.maricopa.edu/academic/ccta.

CNS205	Sustainable Construction/
	LEED Certification3
ECE101	Origins of Science and
	Engineering3
ECE111	Bioengineering Systems3
FON135	Sustainable Cooking3
FON143	Food and Culture3
FON161	Sustainable Food Production
	Systems3
HES210	Cultural aspects of Health and
	Illness3
+INT170	Interior Materials3
SCT100	Introduction to Sustainable Built
	Environments3
+SCT271AA	Sustainable Design
	Internship (1) OR
+SCT271AB	Sustainable Design
	Internship (2)1-2
SOC180	Social Implications of
	Technology3
WED124	Environmental Wellness3
Track V: Sustai	nability: Business and
Entrepreneurs	hip10-11
Students will following list:	choose one (1) option from the
EPS150	Introduction to
	Entrepreneurship (3) AND
EPS195	Business Start-Up and
	Planning (2)5
MGT253	Owning and Operating a
	Small Business (3) AND
+MGT298AA	Special Project (1) OR
+SSH298AA	Special Project(1)4
Students will following list:	choose one (1) option from the

GBS151

GBS205

Students will choose one (1) option from the following list:

ECN212 Microeconomics (3) OR SBU200 Society and Business (3)3

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Sustainability and Ecological Literacy

ACADEMIC CERTIFICATE: AC 6232N

16 Credits

PROGRAM CONTACT:

CHRIS SCHNICK ~ (480) 732-7274

chris.schnick@cgc.edu

PROGRAM DESCRIPTION

The interdisciplinary Academic Certificate (AC) in Sustainability and Ecological Literacy enhances students` understanding of sustainable living practices associated with economics, equity and the environment. Through a combination of coursework and experiential learning, students engage in critical thinking, inquiry, and discourse, skills necessary for becoming socially responsible citizens who are ecologically and environmentally aware. The certificate is designed for, although not limited to, students seeking an Associate in Arts Degree and planning transfer to four-year colleges and universities.

PROGRAM NOTES

+ indicates course has prerequisites and/or corequisites.

Students must earn a grade of "C" or better in

Introduction to Business (3) OR

Environment of Business (3)......3

Legal, Ethical and Regulatory

all courses within the program.

Overall program minimum G.P.A. = 2.00.

PROGRAM PREREQUISITES: 3 CREDITS

+ENG101	First-Year Composition (3) OR	
+ENG107	First-Year Composition for	
	FSI (3)	3

REQUIRED COURSES: 7 CREDITS

+PHI216	Environmental Ethics	.3
BIO105	Environmental Biology (4) OR	
GLG110	Geological Disasters and the	
	Environment (3) AND	
GLG111	Geological Disasters and the	
	Environment Lab (1)	.4

HUMANITIES, SOCIAL SCIENCE AND WELLNESS: 9 CREDITS

Students will choose 2 different courses from the following list:

The Economics of Natural
= = = = = = = = = = = = = = = = =
Resources, Population and the
Environment (3)
Nature and Environmental
Literature (3)
Literature of the Southwest (3)
Humanities:
Universal Themes (3)
Outdoor Adventure Skills (3)
Society and Business (3)6
choose 1 course from the
World History to 1500 (3)

World History 1500 to the

Ideas and Values in the

World Philosophy (3)

Psychology and Culture (3)

Introduction to Sociology (3).....3

Present (3)

Humanities (3)

World Politics (3)

HIS111

HUM250

PHI104

POS120

PSY132

SOC101

Web Design

Web Design

CERTIFICATE OF COMPLETION: CCL 5159

18 Credits

PROGRAM CONTACT:

PREMA RAYAPPA (480)-732-1230

prema.rayappa@cgc.edu

PROGRAM DESCRIPTION

The Certificate of Completion (CCL) in Web Design is intended for those interested in designing and maintaining web pages for personal or small business use.

PROGRAM NOTES

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

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

Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 18 CREDITS

CIS120DC	Adobe Animate: Digital	
	Animation	3
CIS120DF	Adobe Photoshop Level I:	
	Digital Imaging (3) OR	
CIS120AF	Computer Graphics: Adobe	
	Photoshop: Level I (1) AND	
CIS120BF	Computer Graphics: Adobe	
	Photoshop: Level II (1) AND	
CIS120CF	Computer Graphics: Adobe	
	Photoshop: Level III (1)	3
CIS133DA	Internet/Web Development	
	Level I	3
+CIS166++	Web Scripting (any module)	3

Courses available at CGCC are listed in the Course Descriptions section of this document. General Education Requirements are also listed. For the most current information regarding degree requirements log on to www.maricopa.edu/academic/ccta.

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Women's Studies

Women's Studies

ACADEMIC CERTIFICATE: AC 6225N

15 Credits

PROGRAM CONTACT:

DONNA THOMPSON ~ (480) 857-5534

donna.thompson@cgc.edu

PROGRAM DESCRIPTION

The Academic Certificate (AC) in Women's Studies is an intensive interdisciplinary liberal arts certificate program, provides students with tools and opportunities to discuss and critique historical and contemporary theories and practices of feminism(s). The curriculum enables students to write well, think critically and analyze problems effectively. Students complete a variety of courses focusing on women's experiences and perspectives, exploring topics such as history, culture, class, race, ethnicity, sexuality and gender in order to help bring about equality, understanding, and peace. These courses are culturally responsive to the diversity of one half of the world's people, their work, and their impact on multicultural societies.

PROGRAM NOTES

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

+ indicates course has prerequisites and/or corequisites.

++ indicates any module/suffixed courses. Overall program minimum G.P.A. = 2.00.

REQUIRED COURSES: 3 CREDITS

WST100	Introduction to Women's and	
	Gender Studies	.3

RESTRICTED ELECTIVES: 12 CREDITS		
ASB211	Women in Other Cultures3	
ENH/WST284	19th Century Women Writers3	
ENH/WST285	Contemporary Women Writers3	
HIS201	History of Women in America3	
HLR/WST286	Women and Health: Body/	
	Mind/Spirit/Connection3	
HUM/WST209	Women and Films3	
+PSY235	Psychology of Gender3	
REL/WST290	Women and World Religion3	
SOC212	Gender and Society3	
WST120	Gender, Class, and Race3	
AJS/WST128	Law and Violence Against	
	Women3	
WST160	Women and the Early	
	American Experience3	
WST161	American Women Since 19203	
WST200	Essential Feminist Writing3	

Special Programs Continuing Education and Workforce Development

Chandler-Gilbert Community College offers life-long learning opportunities through non-credit courses. The Continuing Education Department offers courses designed to enhance personal and professional development through classroom instruction as well as on-line learning.

Workforce development at CGCC brings together employers, employees and

Courses available at CGCC are listed in the Course Descriptions section of this document. General Education Requirements are also listed. For the most current information regarding degree requirements log on to www.maricopa.edu/academic/ccta.

education. Instruction is either at the company, at the college, or on-line. Students can enroll in CTE programs or take courses to learn skills needed by current or future employers.

To continue learning with flexible courses year-round, call (480) 857-5500.

English as a Second Language

CGCC is committed to a partnership in learning with students who are non-native English speakers. The English as a Second Language (ESL) courses are designed to help foreign speakers from a variety of countries learn English by emphasizing four skill areas: listening, speaking, reading, and writing.

Students enrolling in ESL courses should be tested. Based on test scores, students are placed in the appropriate-level conversation, grammar, and writing courses. Call (480) 732-7159 to schedule an appointment for ESL testing.

Call (480) 857-5010 for more information about CGCC's ESL program or visit the Web site at http://www.cgc.maricopa.edu/ Academics/ESL/Pages/ESL.aspx

Fitness, Wellness and Recreation

CGCC offers a variety of fitness, wellness, and recreation opportunities on the Pecos and Williams Campus.

FITNESS CENTER

The Pecos Fitness Center features state-of-the-art cardiovascular training equipment, Life Fitness and Cybex weight training machines, and a complete free-weight area with Olympic style platforms and bumper plates. The Fitness Center is equipped with TRX trainers, plyometric boxes, medicine balls, stability balls, bands and hurdles for complete performance training. Whether you are an elite athlete or a week-end warrior we have all of the equipment that you need.

All members of the Pecos Fitness Center are offered personalized instruction, a complete fitness assessment, and body composition analysis from our degreed and certified instructors. Fitness Center members also have access to amenities such as locker rooms and shower facilities.

To use the Fitness Center, all students must be enrolled in a credit (PED115) or non-credit (Fitness 600-100) Lifetime Fitness course. PED115 students also have access to Group Fitness Courses. Additional information is available by calling the Pecos Campus Fitness Center at (480) 732-7200.

GROUP FITNESS CLASSES

Chandler-Gilbert also has a wide variety of group fitness classes open to students. All Group Fitness classes are 1 credit classes and have the PED101 prefix. Students may choose from Boot Camp Fitness, Zumba, Pilates, Yoga, Restorative Yoga, Stretch and Relaxation, Tai Chi, Karate and other classes.

To see a complete list of group fitness classes being offered this semester, please see the current schedule of classes.

Students, faculty, staff, and community members interested in using the Fitness Center or taking a group fitness class can contact the Pecos Campus Fitness Center at (480) 732-7200 for more information.

Honors Program

The CGCC Honors Program provides the opportunity for academically advanced students to participate in challenging and rewarding educational experiences. The purpose of the Honors Program is to foster greater depth of thought in reading, writing, and discussion with faculty and guest lecturers, which will better prepare Honors students to complete baccalaureate degrees or to begin their careers. A variety of academic scholarships are available to eligible Honors Program students.

Honors students enjoy:

- Scholarships
- Special recognition on transcripts and diplomas
- Cultural and social activities, such as the Honors Forum Lecture Series and other experiential learning activities
- Enhanced intellectual growth through Honors courses and projects

Students with a cumulative grade point average of 3.25 or higher and have earned at least 12 credit hours of Maricopa Community College coursework are invited to apply as an Honors Achievement Scholar. Recent high school graduates with a 3.0 GPA from attending an accredited Maricopa County high school are invited to apply to the Honors Program as a Presidents' Scholar. Other requirements may apply at the time of application.

For full details and specific requirements about the Honors Program or Honors scholarships, visit www.cgc.edu/honors or contact the Honors Office at (480) 732-7252.

Performing Arts

The Performing Arts Program at CGCC offers an integrated approach to dance, theatre, and music. The classes, while separate, are coordinated within the area to provide students a broader base and more versatility in their performing arts education.

Students can explore all aspects of the performing arts at CGCC. The department offers a transfer program to four-year institutions in music performance, music education, music theory, dance education, dance performance, theater education, theater performance, technical theater and musical theater. Two-year degrees are offered in dance, theater and music business as well as a certificate of completion in music business. Preparing for life after CGCC is the focus of the program and student success is the goal of the dedicated faculty. There are many opportunities for students to develop skills leading to work in the performing arts, and related areas.

The Arnette Scott Ward Performing Arts
Center (the PAC) is home to the CGCC's music,
theatre, and dance faculty and staff. It houses
a costume shop, scene shop, and its heart, a
299-seat performance venue. In addition, the
program has brand new teaching facilities
including two new dance studios, a revitalized
black box theater, a new instrumental music
room, choir room, music library, rehearsal
rooms and studio recording space.

For more information on performing arts at CGCC, visit www.cgc.edu/arts or call:

Dance and Musical Theatre	(480) 732-7136
Instrumental Music	(480) 732-7290
Music Business	(480) 857-5182
Theatre	(480) 732-7040
Vocal Music and Musical Theatre	e(480) 732-7144



ACADEMIC DIVISIONS

Academic Divisions

Courses offered at CGCC fall under one of eleven academic divisions. They include:

Aviation & Applied Technology

ERIC SNYDER, DIVISION CHAIR (480) 988-8182

eric.snyder@cgc.edu

COURSES:

AET - Aeronautics

AJS - Administration of Justice Studies

AMT - Aircraft Maintenance Technology

ATC - Air Traffic Controllers

AVT - Avionics Technology

EUT - Electric Utility Technology

PPT - Power Plant Technology

CAREER PROGRAMS:

Administration of Justice Studies

Administration of Justice Studies

Correctional Studies

Forensic Science

Homeland Security

Justice Studies

Law Enforcement Training Academy

Aircraft Flight Technology

Certified Flight Instructor Instrument

Airplane Rating

Flight Technology

Airway Science Technology,

Flight Emphasis

Aircraft Maintenance Technology

Airframe Maintenance (Part 147)

Powerplant Maintenance (Part 147)

Aircraft Maintenance Technology

(Part 147)

Aircraft Maintenance Technology

Electric Utility Technology

Electric Utility Technology

Electric Utility Design Technology

Meter Technology

Biological Sciences

REGI MUNRO, DIVISION CHAIR

(480) 732-7109

regi.munro@cgc.edu

COURSES:

BIO - Biology

SUS - Sustainability/Natural Sciences

SSH - Sustainability Social Sciences

CAREER PROGRAMS:

Sustainability

Business & Computing Studies

THOMAS PEARSON, DIVISION CHAIR (480) 726-4131

tom.pearson@cgc.edu

COURSES:

ACC - Accounting

BPC - Business-Personal Computers

CIS - Computer Information Systems

CNT - Cisco Network Technology

CSC - Computer Science

GBS - General Business

IBS - International Business

ITS - Information Technology Security

MGT - Management

MKT - Marketing

MST - Microsoft Technology

OAS - Office Automation Systems

PAD - Public Administration

SBS - Small Business Management

SBU - Society and Business

CAREER PROGRAMS:

Accounting

Business

General Business

Organizational Leadership

Organizational Management

Retail Management

Social Media Marketing

Cisco Networking

Networking Administration: Cisco

Networking Technology: Cisco

Business Applications

Business Applications Specialist:

Office Specialist/ Core Level

Computer Database Administration and

Development

Oracle Database Operations

Computer Hardware Maintenance and

Desktop Support

Computer Hardware and Desktop Support

Computer Information Technology

Information Technology

Computer Programming

Programming and System Analysis

Computer Science

Linux Networking

Linux Professional

Microsoft Networking

Network Administration:

Microsoft Windows Server

Small Business

Small Business Start-Up

Web Design

Communication & Fine Arts

RANDY WRIGHT, DIVISION CHAIR

(480) 732-7290

randy.wright@cgc.edu

COURSES:

ARH - Art Humanities

ART - Art

COM - Communication

DAH - Dance Humanities

DAN - Dance

MCO - Mass Communications

MHL - Music: History/Literature

MTC - Music: Theory/Composition

MUC - Music: Commercial/Business

MUE - Music: Education

MUP - Music: Performance

STO - Storytelling

THE - Theatre

THF - Theatre and Film

THP - Theater Performance/Production

CAREER PROGRAMS:

Art: Computer Illustration

Media Arts: Computer Art/Illustration

Art: Digital Photography

Media Arts: Digital Imaging

Music Business

Composition, Creative Writing & Literature

MARY ZIMMERER, DIVISION CHAIR (480) 857-5441

mary.zimmerer@cgc.edu

COURSES:

CRE - Critical Reading

CRW - Creative Writing

ENG - English

ENH - English Humanities

HUM - Humanities

JRN - Journalism

RDG - Reading

WAC - Writing Across Curriculum

CAREER PROGRAMS:

Creative Writing

Library, Learning Center & Counseling

CAROL DICHTENBERG, DIVISION CHAIR (480) 857-5133

carol.dichtenberg@cgc.edu

COURSES:

AAA - Advancing Academic Achievement

BHS - Behavorial Health Services

Technology

CPD - Counseling and Personal

Development

IFS - Information Studies

Health Sciences

GREGORY TRONE, DIVISION CHAIR (480) 782-7289

gregory.trone@cgc.edu

COURSES:

EMT - Emergency Medical Technology

EXS - Exercise Science

FON - Food and Nutrition

HCC - Health Core Curriculum

HCR - Health Care Related

HES - Health Science

MSP - Mortuary Science

PED - Physical Education

REC - Recreation

WED - Wellness Education

CAREER PROGRAMS:

Fire Science

Emergency Medical Technology

Massage

Massage Therapy

Mortuary Science

Nursing

Practical Nursing

Nutrition

Dietetic Technology

Personal Training

Personal Training Specialist

Exercise Science and Personal Training

Mathematics

FRANK WILSON, DIVISION CHAIR (480) 988-8608

frank.wilson@cgc.edu

COURSES:

MAT - Mathematics

Modern Languages & Humanities

VIRGINIA EDWARDS, DIVISION CHAIR (480) 732-7342

virginia.edwards@cgc.edu

COURSES:

ESL - English as a Second Language

GER - German

HIS - History

NAV - Navajo

PHI - Philosophy

REL - Religious Studies

SLG - Sign Language

SPA - Spanish

SPH - Spanish Humanities

WST - Women's Studies

CAREER PROGRAMS:

Sustainability and Ecological Literacy

Nursing

KAREN FLANIGAN, DIVISION CHAIR (480) 988-8881

karen.flanigan@cgc.edu

COURSES:

HCC - Health Core Curriculum

HCR - Health Care Related

NCE - Nursing Continuing Education

NUR - Nursing Science: Basic

CAREER PROGRAMS:

Nursing

Registered Nurse

Physical Sciences & Engineering

ANGEL G. FUENTES, DIVISION CHAIR

(480) 732-7033

angel.fuentes@cgc.edu

COURSES:

AST - Astronomy

CAD - Computer-Aided Drafting

CHM - Chemistry

ECE - Engineering Science

EEE - Electrical Engineering

ELE - Electronic

ELT - Electronics Technology

GLG - Geology

GPH - Physical Geography

PHS - Physical Science

PHY - Physics

CAREER PROGRAMS:

Engineering Technology

Social and Behavioral Sciences

DARBY HEATH, DIVISION CHAIR (480) 857-5442

darby.heath@cgc.edu

COURSES:

AIS - American Indian Studies

ASB - Anthropology

CFS - Child/Family Studies

ECH - Early Childhood Education

ECN - Economics

EDU - Education

EED - Early Education

GCU - Cultural Geography

POS - Political Science

PSY - Psychology

SOC - Sociology

CAREER PROGRAMS:

Child and Family Professional Development

Early Learning and Development



COURSE DESCRIPTIONS

COURSE DESCRIPTIONS

All courses offered by the Maricopa Community Colleges appear in a standardized format using six common course elements. Students are encouraged to become familiar with the course elements included in a course description. Please see "How to Read Course Descriptions".

The courses that follow are offered at Chandler-Gilbert Community College (CGCC). Not all courses in this section will necessarily be offered during any given school year. Not all courses listed in the required courses and/or restricted elective areas of shared occupational programs are offered at CGCC. Please check the current class schedule for course availability. The intent of the Course Description section is to enable students to review courses that are available at CGCC.

How to Read Course Descriptions

All courses offered at the Maricopa Community Colleges are identified by a three-letter abbreviation of the academic subject plus a three-digit number (e.g., ENG101 identifies an English course). Course descriptions are listed alphabetically and in ascending numerical order.

Each course listing has six common elements:

 Course Prefix: Three-letter subject code abbreviation indicating discipline or area of study (e.g., ENG for English).

- 2. Course Number: Three-digit number assigned to indicate sequence and academic level. Numbers range from 001-299. Courses numbered below 100 are offered for the purpose of strengthening skills and knowledge and cannot be applied toward degrees awarded by Maricopa Community Colleges. These courses cannot be transferred to four-year institutions. First-year courses are generally identified with 100-level numbers. Second-year courses are generally identified with 200-level numbers.
- 3. Course Title: Identifying name of the course. May also indicate course level (e.g., College Mathematics or Beginning Spanish Conversation I).
- 4. Course Description: Brief statement describing the content of the course. Each instructor's course syllabus gives additional information, including objectives and grading criteria.
- Course Credit Hours: College credit hours awarded for satisfactory completion of the course.
- Course Prerequisites and/or Corequisites:
 Requirements that must be met before
 or, in the case of corequisites, at the same
 time as enrollment in a course. Not all
 courses have prerequisites or corequisites.
- 7. Shared Unique Number (SUN) System:
 The Shared Unique Number (SUN)
 System is a college course numbering
 system designed to help students locate
 and enroll in courses that have direct
 equivalents for transfer among Arizona's
 public community colleges and three state
 universities.

EXAMPLE:

- (1) = Course Prefix
- (2) = Course Number
- (3) = Course Title
- (4) = Course Description
- (5) = Course Credits
- (6) = Course Prerequisites and/or Corequisites
- (7) = Shared Unique **SUN**Number (SUN) System
- * = Periods: Weekly time in class during a typical 16-week semester;
 50 minutes = 1 period.

(1)ENG (2)101 / (5) 3 CREDITS / * 3 PERIODS

(7) **SUN** ENG 1101

(3) FIRST-YEAR COMPOSITION

(4) 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. (6) Prerequisites: Appropriate writing placement test score, or a grade of C or better in ENG091 or ESL097.

AAA - Advancing Academic Achievement

AAA115 / 1 CREDIT / 1 PERIOD

CREATING COLLEGE SUCCESS

Strategies to create success in college.

Methods for selecting and developing effective academic strategies, increasing self-awareness and developing self-management strategies. Elements of college resources and relationships with others explored in support of students' educational experience. Prerequisites: None.

ACC - Accounting

ACC105 / 3 CREDITS / 3 PERIODS

PAYROLL, SALES AND PROPERTY TAXES

Tax reporting for payroll, sales, and personal property. Prerequisites: None.

ACC111 / 3 CREDITS / 3 PERIODS

ACCOUNTING PRINCIPLES I

Fundamental theory of accounting principles and procedures. Prerequisites: None.

ACC115 / 2 CREDITS / 3 PERIODS

COMPUTERIZED ACCOUNTING

Mastery of a microcomputer accounting system including the general ledger, accounts receivable, accounts payable and payroll.

Prerequisites: ACC107 or ACC111 or ACC211 or ACC230, or permission of Instructor.

ACC121 / 3 CREDITS / 3 PERIODS

INCOME TAX PREPARATION

Preparation of and practical experience in preparing individual federal income tax returns using computer software.

Prerequisites: None.

ACC219 / 3 CREDITS / 3 PERIODS

INTERMEDIATE ACCOUNTING I

Theory and practice applicable to determination of asset values, liabilities, and related problems of income determination. Prerequisites: ACC212 or ACC240 with a grade of "C" or better, or permission of Department/ Division.

ACC220 / 3 CREDITS / 3 PERIODS

INTERMEDIATE ACCOUNTING II

Continuation of the theory and practice applicable to liabilities and owner's equity; special problems and financial reporting.

Prerequisites: ACC219 with a grade of "C" or better, or permission of Department/Division.

ACC230 / 3 CREDITS / 3 PERIODS

USES OF ACCOUNTING INFORMATION I

Introduction to the uses of accounting information for internal and external purposes with emphasis on financial statement analysis. Prerequisites: Grade of "C" or better in ACC111 or ACC211, or a grade of "C" or better in (ENG101 and MAT151 and CRE101), or equivalent, or satisfactory score on District placement exam.

ACC240 / 3 CREDITS / 3 PERIODS

USES OF ACCOUNTING INFORMATION II

Introduction to the uses of accounting information for internal and external purposes with emphasis on analysis for use by

management. Prerequisites: ACC230.

ACC296WA / 1 CREDIT / 5 PERIODS

COOPERATIVE EDUCATION

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

AET - Aeronautics

AET100 / 1 CREDIT / 1 PERIOD

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AVIATION ORIENTATION

Exploration of career options and employment practices in the aviation industry, including topics such as academic requirements, employment requirements, regulatory issues, and airport procedures. Prerequisites: None.

AET107 / 5 CREDITS / 5 PERIODS

PRIVATE PILOT GROUND SCHOOL

Ground school in preparation for the Federal Aviation Administration (FAA) Private Pilot Certificate written examination. Includes aerodynamics, airplane systems, airports, airspace, communications, Federal Air Regulations, navigation, airplane performance, flight planning, and flight physiology. Requires passing a written exam similar to the FAA Private Pilot written exam. Prerequisites: None. Corequisite: AET110.

AET107HH / 5 CREDITS / 5 PERIODS

PRIVATE PILOT GROUND SCHOOL: HELICOPTER

Ground school in preparation for the Federal Aviation Administration (FAA)
Private Pilot Certificate written examination.
Includes aerodynamics, helicopter systems, airports, airspace, communications, Federal Air Regulations, navigation, helicopter performance, flight planning, and flight physiology. Requires passing a written exam similar to the FAA Private Pilot written exam.
Prerequisites: None. Corequisites: AET110HH.

AET110 / 2 CREDITS / 5 PERIODS

PRIVATE PILOT FLIGHT

Flight course in preparation for the Federal Aviation Administration (FAA) Private Pilot Certificate practical examination. Includes preflight preparation and planning, ground operations, airport operations, departures, navigation, basic instrument flight, night flight, slow flight, ground reference maneuvers, emergency operations, and arrivals. Approximately 50 hours airplane flight experience at student's expense required. Requires passing check ride similar to the FAA Private Pilot check ride. Prerequisites: None. Corequisites: AET107.

AET110HH / 2 CREDITS / 5 PERIODS

PRIVATE PILOT FLIGHT: HELICOPTER

Flight course in preparation for the Federal Aviation Administration (FAA) Private Pilot Certificate practical examination. Includes preflight preparation, preflight procedures, airport and heliport operations, hovering maneuvers, takeoffs, landings, and gorounds, performance maneuvers, navigation, emergency operations, night operations, and post-flight procedures. Approximately 75-85 hours helicopter flight experience at student's expense required. Requires passing check ride similar to the FAA Private Pilot check ride. Prerequisites: None. Corequisites: AET107HH.

AET115 / 3 CREDITS / 3 PERIODS

AVIATION METEOROLOGY

Meteorology for professional pilots. Includes atmosphere, air mass circulation, cloud type identification, weather hazards, and high altitude, Arctic, and tropical weather systems. Basic forecasting, use of Direct User Access Terminal (DUAT) systems and reading and interpreting weather charts. Prerequisites: None.

AET203 / 3 CREDITS / 3 PERIODS

BASIC AIRPLANE SYSTEMS

Beginning commercial pilot ground course in preparation for the Federal Aviation Administration (FAA) Commercial Pilot Certificate and Commercial written examination. Discussions will include, but not

be limited to reciprocating engines, engine systems, airplane systems, altitude systems, and commercial regulations. Prerequisites: AET207, AET217 and AET210 or permission of instructor. Corequisites: AET220 and AET213.

AET203HH / 2 CREDITS / 2 PERIODS

BASIC HELICOPTER SYSTEMS

Beginning commercial pilot ground course in preparation for the Federal Aviation Administration (FAA) Commercial Pilot Certificate and Commercial written examination Discussions will include, but not be limited to reciprocating engines, engine systems, helicopter systems, altitude systems, and commercial regulations. Prerequisites: AET207HH, AET217HH and AET210HH or permission of Instructor. Corequisites: AET220HH and AET213HH.

AET205 / 4 CREDITS / 4 PERIODS

AIRCRAFT STRUCTURES, SYSTEMS, AND MAINTENANCE

Survey of airframe structures, systems, and maintenance regulations for pilots. Includes aircraft and airfoil design and construction, and electrical, instrumentation, and automatic flight control systems. Maintenance privileges and limitations, and forms and records.

Prerequisites: Private Pilot Certificate or permission of instructor.

AET207 / 3 CREDITS / 3 PERIODS

ATTITUDE INSTRUMENTS AND NAVIGATION

Beginning instrument pilot ground course in preparation for the Federal Aviation Administration (FAA) Instrument Pilot Rating and Instrument rating written examinations. Includes preflight preparation, flight instruments, basic attitude instrument flying, radio navigation systems, and technically advanced aircraft systems. Prerequisites: AET110 or permission of instructor. Corequisites: AET217 and AET210.

AET207HH / 2 CREDITS / 2 PERIODS

ATTITUDE INSTRUMENTS AND NAVIGATION: HELICOPTER

Beginning instrument pilot ground course in preparation for the Federal Aviation Administration (FAA) Instrument Pilot Rating and Instrument rating written examinations. Includes preflight preparation, flight instruments, basic attitude instrument flying, radio navigation systems, and technically advanced helicopter systems. Prerequisites: AET110HH, or permission of Instructor. Corequisites: AET210HH and AET217HH.

AET208 / 3 CREDITS / 3 PERIODS

AVIATION SAFETY

Introduction to aviation safety, including aviation safety programs, risk management, pilot psychology, physiology, human factors, and accident review and investigation.

Prerequisites: AET100.

AET210 / 2 CREDITS / 5 PERIODS

INSTRUMENT COMMERCIAL FLIGHT I

Initial flight course in preparation for the Federal Aviation Administration (FAA) Instrument rating practical examination. Emphasis on night and instrument operations. Student must fly approximately 60 hours at own expense. Requires passing operational phase checks. Prerequisites: AET110 or permission of instructor. Corequisites: AET217 and AET207.

AET210HH / 2 CREDITS / 5 PERIODS

INSTRUMENT FLIGHT: HELICOPTER

Initial helicopter flight course in preparation for the Federal Aviation Administration (FAA) Instrument rating practical examination. Emphasis on helicopter instrument operations. Student must fly approximately 75 hours at own expense. Requires passing operational phase checks. Prerequisites: AET110HH or permission of Instructor. Corequisites: AET207HH and AET217HH.

AET213 / 3 CREDITS / 3 PERIODS

AERODYNAMICS AND PERFORMANCE

Advance instrument and commercial pilot ground course in preparation for the Federal Aviation Administration (FAA) Commercial Pilot Certificate and Commercial written examinations. Includes discussion of aerodynamic factors including lift, weight, drag, and thrust. Discussions will include, but are not limited to aerodynamics, performance,

safe and efficient airplane operations, airplane stability and control, stalls and spins. Prerequisites: AET207, AET217, and AET210. Coreguisites: AET203 and AET220.

AET213HH / 2 CREDITS / 2 PERIODS

AERODYNAMICS AND PERFORMANCE: HELICOPTER

Advance commercial pilot ground course in preparation for the Federal Aviation Administration (FAA) Commercial Pilot Certificate and Commercial written examinations. Includes discussion of aerodynamic factors including lift, weight, drag, and thrust. Discussions will include, but are not limited to aerodynamics, performance, and safe and efficient helicopter operations. Prerequisites: AET207HH, AET217HH, and AET210HH. Corequisites: AET220HH and AET203HH.

AET215 / 4 CREDITS / 4 PERIODS

AIRCRAFT POWERPLANTS

Survey of engines and engine systems for pilots. Includes theory and analysis of reciprocating and turbine aircraft engines. Lubrication, ignition, fuel control, cooling, exhaust, and propellers. Prerequisites: AET205 or permission of instructor.

AET217 / 3 CREDITS / 3 PERIODS

INSTRUMENT PROCEDURES

Advance instrument pilot ground school course in preparation for the Federal

Aviation Administration (FAA) Instrument pilot rating and Instrument rating written examinations. Include Federal Aviation Regulations, instrument approach procedures, and instrument enroute considerations. Requires passing written exam similar to the Instrument pilot rating and Instrument rating written exams. Prerequisites: AET110 or permission of instructor. Corequisites: AET210 and AET207.

AET217HH / 2 CREDITS / 2 PERIODS

INSTRUMENT PROCEDURES: HELICOPTER

Advance helicopter instrument pilot ground school course in preparation for the Federal Aviation Administration (FAA) Instrument pilot rating and Instrument rating written examinations. Includes Federal Aviation Regulations, instrument approach procedures, and instrument enroute considerations. Requires passing written exams similar to the Instrument pilot rating and Instrument rating written exams. Prerequisites: AET110HH or permission of Instructor. Corequisites: AET210HH and AET207HH.

AET220 / 2 CREDITS / 5 PERIODS

INSTRUMENT COMMERCIAL FLIGHT II

Advanced flight course in preparation for the Federal Aviation Administration (FAA) Commercial Pilot practical examinations. Emphasis on commercial and high performance operations. Student must fly approximately 60 hours at own expense. Requires passing instrument ration and commercial pilot stage checks similar to the FAA check rides. Prerequisites: AET210, AET207 and AET217. Corequisites: AET203 and AET213.

AET220HH / 2 CREDITS / 5 PERIODS

COMMERCIAL FLIGHT: HELICOPTER

Advanced flight course in preparation for the Federal Aviation Administration (FAA)

Commercial Pilot practical examination.

Emphasis on commercial and high performance helicopter operations. Student must fly approximately 60 hours at own expense.

Requires passing instrument rating and commercial pilot stage checks similar to the FAA check rides. Prerequisites: AET210HH, AET207HH and AET217HH. Corequisites: AET203HH and AET213HH.

AET225 / 4 CREDITS / 4 PERIODS

ADVANCED AIRCRAFT SYSTEMS

Advanced aircraft systems for pilots.

Pressurization, cabin atmosphere, ice control, rain control, fire detection and extinguishing, hydraulic, landing gear, anti-skid systems, and weight and balance for transport category airplanes. Prerequisites: AET215 or permission of instructor.

AET226 / 2 CREDITS / 2 PERIODS

INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS OPERATION

Overview of the history of Unmanned Aircraft Systems (UAS), as well as regulatory issues

and both current and future applications.

Prerequisites: AET100. Proof of U.S. Citizenship required per U.S. State Department
International Traffic in Arms Regulations (ITAR) regulations.

AET227 / 5 CREDITS / 5 PERIODS

CERTIFIED FLIGHT INSTRUCTOR: AIRPLANE, SINGLE ENGINE LAND GROUND SCHOOL

Ground school in preparation for the Federal Aviation Administration (FAA) Certified Flight Instructor and Fundamentals of Instruction written examinations. Includes fundamentals of instruction, aerodynamics, airplane performance, systems, operations, weight and balance, weather, federal regulations, navigation, maneuvers, pilot physiology, ethics, and aeronautical decision making. Requires passing written exams similar to the FAA Certified Flight Instructor: Airplane, and Fundamentals of Instruction written exams. Prerequisites: AET240 or FAA Commercial Pilot Certificate with instrument rating. Corequisite: AET230.

AET227HH / 4 CREDITS / 4 PERIODS

CERTIFIED FLIGHT INSTRUCTOR: HELICOPTER GROUND SCHOOL

Ground school in preparation for the Federal Aviation Administration (FAA) Certified Flight Instructor and Fundamentals of Instruction written examinations. Includes fundamentals of instruction, aerodynamics, helicopter performance, systems, operations, weight

and balance, weather, federal regulations, navigation, maneuvers, pilot physiology, ethics, and aeronautical decision making.

Requires passing written exams similar to the FAA Certified Flight Instructor: Helicopter, and Fundamentals of Instruction written exams. Prerequisites: FAA Commercial Pilot Certificate. Corequisites: AET230HH.

AET228 / 3 CREDITS / 3 PERIODS

PUBLIC SAFETY AVIATION

Organization, operations, tactics and techniques related to air support operations within law enforcement, fire protection and resource protection agencies. Includes Use of Unmanned Aircraft System (UAS) within the United States, Airborne law enforcement patrol, surveillance, special operations and Special Weapons and Tactics (SWAT); fire operations including fire chemistry and behavior, fire department organization and tactics, airborne firefighting equipment, fire extinguishment tactics and air ambulance operations; and, resource protection air operations including wildlife surveys, hunting and fishing enforcement patrols, search and rescue, and operations from unimproved landing sites and seaplane operations. Prerequisites: AET107 and AET110. Corequisites: AET260. Course Notes: International Traffic in Arms Regulations (ITAR) Defined: U.S. State Department regulations that govern the export of restricted technology to foreign states. United States Munitions List (USML) of restricted

articles and services. ITAR Compliance: Due to the ITAR requirements surrounding the UAS Operations, only United States Citizens will have access to the operating system, simulators, related documentation, and Learning Management System (LMS). Students/Instructors must not disclose ITAR sensitive information or materials to any foreign person at any time whether in the U.S. or abroad. A Foreign Person is defined by ITAR as any natural person who is not a lawful permanent resident as defined by 8 U.S.C.1101(a)(20) or who is not a protected individual as defined by 8 U.S.C. 1324b(a)(3). It also means any foreign corporation, business association, partnership, trust, society or any other entity or group that is not incorporated or organized to do business in the United States, as well as international organizations, foreign governments and any agency or subdivision of foreign governments (e.g. diplomatic missions). Export control violations can result in civil and criminal personal liability of up to \$100,000 per violation, imprisonment, or fines and imprisonment. If the violation is determined to be knowingly or willfully committed the personal liability is up to \$250,000 per violation, imprisonment, or fines and imprisonment.

AET229 / 3 CREDITS / 3 PERIODS

CREW RESOURCE MANAGEMENT

Crew communications, teamwork, leadership, "followership," decision-making, and situational awareness; also the benefits of diversity, and the role diversity plays in

the modern aerospace industry. Emphasis on utilization of all available resources in order to conduct a safe and efficient flight. Prerequisites: AET217.

AET230 / 1 CREDIT / 3 PERIODS

CERTIFIED FLIGHT INSTRUCTOR: AIRPLANE, SINGLE ENGINE LAND

Flight course in preparation for the Federal Aviation Administration (FAA) Certified Flight Instructor: Airplane practical examination. Emphasis on demonstration and analysis of flight maneuvers. Includes preflight, ground operations, airport operations, takeoffs, climbs, flight fundamentals, stalls, spins, slow flight, basic instrument operations, performance maneuvers, ground reference maneuvers, emergency operations, approaches, landings, and postflight procedures. Requires approximately 25 hours of flight that includes high performance operations at student's expense. Also requires passing check ride similar to the FAA Certified Flight Instructor check ride. Prerequisites: AET240 or FAA Commercial Pilot Certificate with instrument rating. Corequisite: AET227.

AET230HH / 1 CREDIT / 3 PERIODS

CERTIFIED FLIGHT INSTRUCTOR: HELICOPTER

Flight course in preparation for the Federal Aviation Administration (FAA) Certified Flight Instructor: Helicopter practical examination. Emphasis on demonstration and analysis of flight maneuvers. Includes preflight

procedures, airport and heliport operations, hovering maneuvers, takeoffs, landings, and go-arounds, fundamentals of flight, performance maneuvers, emergency operations, special operations, and postflight procedures. Requires approximately 60 hours of flight at student's expense. Also requires passing check ride similar to the FAA Certified Flight Instructor check ride. Prerequisites: FAA Commercial Pilot Certificate with instrument rating. Corequisites: AET227HH.

AET237 / 2 CREDITS / 2 PERIODS

MULTIENGINE AIRPLANE PILOT GROUND SCHOOL

Aeronautical knowledge necessary to meet requirements for a multiengine airplane rating including orientation, aerodynamics, airplane systems, airplane performance, flight planning, and emergency procedures. Prerequisites: AET220 or FAA Commercial Pilot Certificate with instrument rating. Corequisites: AET240.

AET240 / .5 CREDIT / 1.5 PERIODS

MULTIENGINE AIRPLANE PILOT FLIGHT

Flight course in preparation for the Federal Aviation Administration (FAA) Multiengine Airplane practical examination. Approximately 15 hours of flight experience at the student's expense and passing check ride similar to the FAA Multiengine check ride are required. Prerequisites: AET220 or FAA Commercial Pilot Certificate with instrument rating. Corequisites: AET237.

AET257 / 3 CREDITS / 4 PERIODS

READINGS IN AVIATION

Critical inquiry of a particular aviation theme from a wide variety of sources. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. International data communication facilities and equipment made available for student use. Prerequisites: ENG102 or ENG111, and permission of instructor.

AET258 / 3 CREDITS / 3 PERIODS

CERTIFIED FLIGHT INSTRUCTOR: INSTRUMENT AIRPLANE GROUND SCHOOL

Aeronautical knowledge and practical teaching ability necessary to obtain an Instrument Flight Instructor Certificate with an Airplane-Single-Engine rating and necessary to satisfactorily pass the Flight Instructor Instrument knowledge test.

Prerequisites: Valid FAA Commercial Pilot Certificate, or Airline Transport Pilot Certificate with instrument rating and the appropriate category and class of airplane used in the course; and Flight Instructor Certificate-Airplane. Corequisites: AET270.

AET258HH / 3 CREDITS / 3 PERIODS

CERTIFIED FLIGHT INSTRUCTOR: INSTRUMENT HELICOPTER, GROUND SCHOOL

Aeronautical knowledge and practical teaching ability necessary to obtain an

Instrument Flight Instructor Certificate with a Helicopter rating and necessary to satisfactorily pass the Helicopter Flight Instructor Instrument knowledge test. Prerequisites: Valid FAA Commercial Pilot Certificate, or Airline Transport Pilot Certificate with instrument rating and the appropriate category and class of helicopter used in the course; and Flight Instructor Certificate-Helicopter. Corequisites: AET270HH.

AET260 / 1 CREDIT / 3 PERIODS

PUBLIC SAFETY AVIATION APPLICATIONS IN UNMANNED AIRCRAFT SYSTEMS FLIGHT LAB

Knowledge and skills needed to safely employ small unmanned aircraft systems. Includes aircraft operating software, launch and recovery operations, payload operations, normal and emergency procedures, and mission planning and execution. Emphasis on use of small Unmanned Aircraft Systems (UAS) operations conducted by non-military governmental organizations, such as law enforcement and resource protection agencies. Students must complete the appropriate flight lessons to satisfactorily complete the course. Prerequisites: AET226. Corequisites: AET228. Course Notes: Due to U.S. State Department regulations that govern the export of restricted technology to foreign states, only United States Citizens will have access to the operating systems, simulators, and related documentation. Students/Instructors must not disclose sensitive information or materials to any foreign person at any time whether in the U.S. or abroad. A Foreign Person is defined as any natural person who is not a lawful permanent resident as defined by 8 U.S.C.1101(a)(20) or who is not a protected individual as defined by 8 U.S.C. 1324b(a)(3). It also means any foreign corporation, business association, partnership, trust, society or any other entity or group that is not incorporated or organized to do business in the United States, as well as international organizations, foreign governments and any agency or subdivision of foreign governments (e.g. diplomatic missions). Export control violations can result in civil and criminal personal liability of up to \$100,000 per violation, imprisonment, or fines and imprisonment. If the violation is determined to be knowingly or willfully committed the personal liability is up to \$250,000 per violation, imprisonment, or fines and imprisonment.

AET270 / 1 CREDIT / 3 PERIODS

CERTIFIED FLIGHT INSTRUCTOR: INSTRUMENT AIRPLANE FLIGHT LAB

Flight experience in an airplane to meet flight proficiency and aeronautical experience requirements necessary to add an Instrument Airplane Rating to an existing Flight Instructor-Airplane certificate. Prerequisites: Valid FAA Commercial Pilot Certificate, or Airline Transport Pilot Certificate with instrument rating and the appropriate category and class of airplane used in the course; and Flight Instructor Certificate-Airplane. Corequisites: AET258.

AET270HH / 1 CREDIT / 3 PERIODS

CERTIFIED FLIGHT INSTRUCTOR: INSTRUMENT HELICOPTER LAB

Flight experience in a helicopter designed to provide flight proficiency and aeronautical experience requirements necessary to pursue adding an Instrument Helicopter Rating to an existing Flight Instructor-Helicopter certificate. Prerequisites: Valid FAA Commercial Pilot Certificate, or Airline Transport Pilot Certificate with instrument rating and the appropriate category and class of helicopter used in the course; and Flight Instructor Certificate-Helicopter. Corequisites: AET258HH.

AET273 / 2 CREDITS / 2 PERIODS

MULTI-ENGINE FLIGHT INSTRUCTOR: AIRPLANE-GROUND SCHOOL

Aeronautical knowledge and practical teaching necessary for the addition of a multiengine rating Flight Instructor Certificate, as set forth in the current Private and Commercial Multi-Engine and Flight Instructor Multi-Engine Practical Test Standards.

Prerequisites: Valid FAA Commercial Pilot Certificate, or Airline Transport Pilot Certificate with instrument rating and the appropriate category and class of airplane used in the course; and Flight Instructor Certificate-Airplane. Corequisites: AET280.

AET280 / 1 CREDIT / 3 PERIODS

MULTI-ENGINE FLIGHT INSTRUCTOR: AIRPLANE-FLIGHT LAB

Flight experience in an airplane to meet flight proficiency and aeronautical experience requirements necessary to add a multi-engine rating to an existing Flight Instructor-Airplane certificate.Prerequisites: Valid FAA Commercial Pilot Certificate, or Airline Transport Pilot Certificate with instrument rating and the appropriate category and class of airplane used in the course; and Flight Instructor Certificate-Airplane. Corequisites: AET273

AIS - American Indian Studies

AIS105 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO AMERICAN INDIAN STUDIES

Introduction to political, economic, and social structures of American Indian Nations. Provides overview of American Indian tribal cultures prior to contact, the impact of European contact, and the influence of western social systems on tribal nations. Prerequisites: None.

AIS110 / 3 CREDITS / 3 PERIODS

NAVAJO GOVERNMENT

Addresses and examines major historical developments of the Navajo People with a focus on government, law, society, livelihood, tradition, and culture. Includes the major

components and operation of Navajo government and related tribal laws, such as Title II and Title VII of the Navajo Nation Code, as well as the significance of the Treaty of 1868. Federal Indian policies and their impact on Navajo society and government, the importance of federal and tribal citizenship and related federal and tribal laws, and the role of the Navajo clanship system and other relevant cultural concepts addressed. Prerequisites: None.

AJS - Administration of Justice Studies

AJS101 / 3 CREDITS / 3 PERIODS

SUN AJS 1101

INTRODUCTION TO CRIMINAL JUSTICE

An introduction to crime and society's responses to it. Examines the nature and causes of crime, the criminal law, constitutional safeguards, and 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.

AJS102 / 17 CREDITS / 30 PERIODS

PEACE OFFICER CERTIFICATION I

Training program for limited authority peace officers, leading to certification by the Arizona Peace Officer Standards and Training Board

(AzPOST - The statutory agency for certifying peace officers - all person with arrest powers - in Arizona.) Includes introduction to Law Enforcement, Law and legal matters, patrol procedures, traffic control, and police proficiency skills. Prerequisites: Student must comply with AzPOST employment standards for peace officers.

AJS109 / 3 CREDITS / 3 PERIODS

SUBSTANTIVE CRIMINAL LAW

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.

AJS113 / 3 CREDITS / 3 PERIODS

CRIMINAL JUSTICE CRIME CONTROL POLICIES AND PRACTICES

Focus on changing the distribution of crime opportunities rather than offender motivation. Topics include application of situational crime prevention strategies, problem-oriented crime control approaches, hot spots policing, defensible space, and crime prevention through defensible space. Prerequisites: None.

AJS119 / 3 CREDITS / 4 PERIODS

COMPUTER APPLICATIONS IN JUSTICE STUDIES

Provides literacy in microcomputer applications in major areas of the criminal justice system. Examines availability and uses of current software packages in criminal justice work. Provides hands-on experience with appropriate integrated software packages pertaining to justice studies. Prerequisites: None.

AJS123 / 3 CREDITS / 3 PERIODS

ETHICS AND THE ADMINISTRATION OF JUSTICE

Introduces and explores ethical issues and the justice system. Focuses on ethics and the law, the police, courts and corrections. Reviews ethical theory, concepts and practices as they relate to administration of justice. Encourages critical thinking and value decision making in criminal justice system situations.

Prerequisites: None.

AJS139 / 3 CREDITS / 3 PERIODS

EMERGENCY RESPONSE TO TERRORISM

Fundamentals of emergency response to suspected terrorist events. Historical perspective of terrorist activities and methods by which responders can identify and protect themselves and the public from these threats. Coordination of responding agencies. Prerequisites: None.

AJS195 / 3 CREDITS / 3 PERIODS

INTERNATIONAL AND DOMESTIC TERRORISM

An overview of the history, structure, goals, and activities of domestic and international terrorist groups. Explores theories explaining terrorism and reviews methods used to combat it. Prerequisites: None.

AJS200 / 3 CREDITS / 3 PERIODS

CURRENT ISSUES IN CRIMINAL JUSTICE

Examines current issues, techniques and trends in the Criminal Justice System.

Prerequisites: None.

AJS201 / 3 CREDITS / 3 PERIODS

RULES OF EVIDENCE

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.

AJS202 / 13 CREDITS /22.5 PERIODS

PEACE OFFICER CERTIFICATION II

A continuation of the basic, entry-level training program leading to full authority peace officer certification as required by the Arizona Peace Officer Standards and Training

Board I (AzPOST). Subjects to include: Patrol Procedure, Accident Investigation, Records and Report Writing, Community Relations, Criminal Investigations, and Officer Survival. Prerequisites: Grade of "C" or better in AJS/LEO102 or AzPOST Limited Authority Peace Officer certification.

AJS212 / 3 CREDITS / 3 PERIODS

JUVENILE JUSTICE PROCEDURES

Examines the history and development of juvenile justice theories, procedures, and institutions. Prerequisites: None.

AJS213 / 3 CREDITS / 3 PERIODS

EVIDENCE TECHNOLOGY/ FINGERPRINTS

Fundamental principles and processes of fingerprints to include identification, interpretation, and classification. In addition, students will apply fingerprinting latent fingerprint developing, preservation of evidence and the chain of custody. Prerequisites: None.

AJS215 / 3 CREDITS / 3 PERIODS

CRIMINALISTICS: PHYSICAL EVIDENCE

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.

AJS216 / 3 CREDITS / 3 PERIODS

CRIMINALISTICS: BIOLOGICAL EVIDENCE

The scientific analysis and examination of biological evidence with emphasis on collection and preservation of evidence.

Topics discussed include blood, drugs, blood alcohol, hairs and fibers, and topics of special interest in criminalistics. Prerequisites: None.

AJS225 / 3 CREDITS / 3 PERIODS

CRIMINOLOGY

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 crime and categories of offenders. Required in the AJS curriculum. Prerequisites: None.

AJS230 / 3 CREDITS / 3 PERIODS

THE POLICE FUNCTION

Theories of procedures and methods of operations of public police with emphasis on discretionary powers available to the working police officer. Career opportunities and current trends in law enforcement presented. Prerequisites: None.

AJS240 / 3 CREDITS / 3 PERIODS

THE CORRECTION FUNCTION

Examines the history and development of correctional theories and institutions. Prerequisites: None.

AJS241 / 3 CREDITS / 3 PERIODS

POLICE PHOTOGRAPHY

Emphasis on proper procedure for photographing crime scenes, accident scenes, and laboratory specimens. Discussion of photographic techniques, equipment, lighting techniques, aerial photography, video and motion pictures, macro and micro photography, filters, and preparation for court presentation using selected simulations. Prerequisites: None.

AJS258 / 3 CREDITS / 3 PERIODS

VICTIMOLOGY AND CRISIS MANAGEMENT

Victimology, the criminal justice system, techniques of crisis intervention, and the importance of a multicultural and global perspective. Includes sexual assault, family violence, post-traumatic stress disorder, the role of substance abuse, effective coping skills, appropriate community resources and the responsiveness of the justice system. Prerequisites: None.

AJS260 / 3 CREDITS / 3 PERIODS

PROCEDURAL CRIMINAL LAW

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 / 3 CREDITS / 3 PERIODS

COMMUNITY RELATIONS

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 / 3 CREDITS / 3 PERIODS

CRIMINAL INVESTIGATION I

Introduction to the theory of criminal investigation. Examines crime scene procedures, case preparation, interviewing, and basic investigative techniques.

Prerequisites: None.

AMT - Aircraft Maintenance Technology

AMT124 / 5 CREDITS / 9 PERIODS

AIRCRAFT FORMS AND REGULATIONS, WEIGHT AND BALANCE, DRAWINGS, AND GROUND OPERATIONS

Federal Aviation maintenance publications, forms and records. Overview of technician's privileges and limitations. Perform aircraft weight and balance, aircraft ground operations and fuel servicing techniques. Drawings, symbols and schematic diagrams.

Prerequisites: ENG071, RDG091, (MAT091 or MAT092), and permission of the Department or Division.

AMT126 / 9 CREDITS / 12 PERIODS

FUNDAMENTALS OF MATHEMATICS AND ELECTRICITY

Mathematical computation of fundamental electrical circuit parameters. Basic definitions, laws, and concepts. Schematic, wiring, and parts placement diagrams. Test and troubleshoot electrical and electronic components and circuits. Prerequisites: ENG071, RDG091, (MAT091 or MAT092), and permission of the Department or Division.

AMT128 / 5 CREDITS / 9 PERIODS

FUNDAMENTALS OF AVIATION PHYSICS, CORROSION CONTROL, MATERIALS AND PROCESSES, FLUID LINES AND FITTINGS

Basic concepts of motion, fluid dynamics, heat and sound, aerodynamics, aircraft structure and theory of flight. Fluid lines and fittings, component identification, function, inspection, and installation. Cleaning and corrosion control, materials and processes, non-destructive testing, and precision measurement techniques. Prerequisites: ENG071, RDG091, (MAT091 or MAT092), and permission of the Department or Division.

AMT220 / 3 CREDITS / 6 PERIODS

FUNDAMENTALS OF AIRCRAFT WOOD STRUCTURES, COVERING AND FINISHING, AND BONDED STRUCTURES

Theories and techniques of aircraft wood structures. Inspection, test and repair of aircraft fabric and wood structures. Aircraft structural design and methods of working with selected materials. Characteristics of composites, inspections and repairs. Prerequisites: Admission to the program.

AMT220AA / 3 CREDITS / 6 PERIODS

FUNDAMENTALS OF AIRCRAFT WOOD STRUCTURES, COVERING AND FINISHING, AND BONDED STRUCTURES: PART 65

Theories and techniques of aircraft wood structures. Inspection, test and repair of aircraft fabric and wood structures. Aircraft structural design and methods of working with selected materials. Characteristics of composites, inspections and repairs.

Prerequisites: Permission of Program Director.

AMT222 / 4 CREDITS / 6 PERIODS

ATMOSPHERE CONTROL, FIRE DETECTION, ICE AND RAIN PROTECTION SYSTEMS

Operation and maintenance of aircraft auxiliary systems. Inspection, servicing, troubleshooting and repair of environmental control, ice and rain control, fire protection and warning systems. Prerequisites:

Admission to the program.

AMT222AA / 4 CREDITS / 6 PERIODS

ATMOSPHERE CONTROL, FIRE DETECTION, ICE AND RAIN PROTECTION SYSTEMS: PART 65

Operation and maintenance of aircraft auxiliary systems. Inspection, servicing, troubleshooting and repair of environmental control, ice and rain control, fire protection and warning systems. Prerequisites:

Permission of Program Director.

AMT224 / 5 CREDITS / 11 PERIODS

AIRCRAFT SHEET METAL

Inspection, fabrication, and repair techniques of aircraft structural and nonstructural components. Sheet metal heat-treating techniques. Prerequisites: Admission to the program.

AMT224AA / 5 CREDITS / 11 PERIODS

AIRCRAFT SHEET METAL: PART 65

Inspection, fabrication, and repair techniques of aircraft structural and nonstructural components. Sheet metal heat-treating techniques. Prerequisites: Permission of Program Director.

AMT226 / 7 CREDITS / 12 PERIODS

AIRCRAFT LANDING GEAR, HYDRAULIC, PNEUMATIC, FUEL, POSITION AND WARNING SYSTEMS

Identification, inspection, repair, and troubleshooting techniques of aircraft landing gear, hydraulic, fuel, pneumatic, and position and warning system components. Prerequisites: Admission to the program.

AMT226AA / 7 CREDITS / 12 PERIODS

AIRCRAFT LANDING GEAR, HYDRAULIC, PNEUMATIC, FUEL, POSITION AND WARNING SYSTEMS: PART 65

Identification, inspection, repair, and troubleshooting techniques of aircraft landing gear, hydraulic, fuel, pneumatic, and position and warning system components.

Prerequisites: Permission of Program Director.

AMT228 / 7 CREDITS / 12 PERIODS

AIRCRAFT ELECTRICAL SYSTEMS, INSTRUMENTS, FUEL INDICATING, COMMUNICATION AND NAVIGATION SYSTEMS

Proper operation, inspection, servicing and troubleshooting of DC (Direct Current) and AC (Alternating Current) sources, systems, and components. Mechanical and electrical sensing and information display systems. Fuel indicator system inspections, repairs, and troubleshooting. Transmitter and receiver fundamentals. Avionics installation, inspection and testing. Prerequisites: Admission to the program.

AMT228AA / 7 CREDITS / 12 PERIODS

AIRCRAFT ELECTRICAL SYSTEMS, INSTRUMENTS, FUEL INDICATING, COMMUNICATION AND NAVIGATION SYSTEMS: PART 65

Proper operation, inspection, servicing and troubleshooting of DC (Direct Current) and AC (Alternating Current) sources, systems, and components. Mechanical and electrical

sensing and information display systems.
Fuel indicator system inspections, repairs, and troubleshooting. Transmitter and receiver fundamentals. Avionics installation, inspection and testing. Prerequisites:
Permission of Program Director.

AMT230 / 6 CREDITS / 11 PERIODS

AIRFRAME ASSEMBLY, INSPECTION AND WELDING

Aircraft assembly and rigging. Flight control balancing and rigging. Airframe inspection techniques, reporting procedures, and aircraft jacking. Welding techniques, theory, and materials identification. Prerequisites: Admission to the program.

AMT230AA / 6 CREDITS / 11 PERIODS

AIRFRAME ASSEMBLY, INSPECTION AND WELDING: PART 65

Aircraft assembly and rigging. Flight control balancing and rigging. Airframe inspection techniques, reporting procedures, and aircraft jacking. Welding techniques, theory, and materials identification. Prerequisites: Permission of Program Director.

AMT263 / 5 CREDITS / 9 PERIODS

AIRCRAFT TURBINE ENGINES

Historical development and application of turbine engines. Theory of thrust and the design and environmental factors which influence thrust. Turbine engine troubleshooting, inspection, service, repair and overhaul. Operational characteristics and

engine test techniques on the aircraft and in test cells. Prerequisites: Admission to the program.

AMT264 / 7 CREDITS / 11 PERIODS

AIRCRAFT RECIPROCATING ENGINES

Historical development and application of reciprocating engines, theory, design, and operations. Techniques used in troubleshooting, overhaul, inspection, and repair of opposed and radial engines. Prerequisites: Admission to the program.

AMT264AA / 7 CREDITS / 11 PERIODS

AIRCRAFT RECIPROCATING ENGINES: PART 65

Historical development and application of reciprocating engines, theory, design, and operations. Techniques used in troubleshooting, overhaul, inspection, and repair of opposed and radial engines.

Prerequisites: Permission of Program Director.

AMT266 / 6 CREDITS / 9 PERIODS

ENGINE FUEL SYSTEMS, FUEL METERING AND INDUCTION SYSTEM

Inspection, servicing, troubleshooting, overhaul, and repair of aircraft fuel systems and components, fuel metering devices, injection systems, turbochargers, and superchargers. Induction system principles of operation and design. Prerequisites: Admission to the program.

AMT268 / 6 CREDITS / 12 PERIODS

ENGINE ELECTRICAL, IGNITION AND STARTER SYSTEMS

Inspect, service, troubleshoot, overhaul, and repair of engine electrical, ignition, starter systems, and components. Prerequisites:

Admission to the program.

AMT268AA / 6 CREDITS / 12 PERIODS

ENGINE ELECTRICAL, IGNITION AND STARTER SYSTEMS: PART 65

Inspect, service, troubleshoot, overhaul, and repair of engine electrical, ignition, starter systems, and components. Prerequisites:

Permission of Program Director.

AMT270 / 5 CREDITS / 8 PERIODS

ENGINE INSTRUMENTS, FIRE PROTECTION AND LUBRICATION, COOLING AND EXHAUST SYSTEMS

Operation, maintenance, servicing, inspection, repair, and troubleshooting of engine instruments, fire detection and extinguishing, engine lubrication, cooling, and exhaust systems. Prerequisites: Admission to the program.

AMT270AA / 5 CREDITS / 8 PERIODS

ENGINE INSTRUMENTS, FIRE PROTECTION AND LUBRICATION, COOLING AND EXHAUST SYSTEMS: PART 65

Operation, maintenance, servicing, inspection, repair, and troubleshooting of engine instruments, fire detection and extinguishing,

engine lubrication, cooling, and exhaust systems. Prerequisites: Permission of Program Director.

AMT272 / 4 CREDITS / 8 PERIODS

PROPELLER SYSTEMS AND ENGINE INSPECTIONS

Historical development, operation, disassembly, inspection, repair, and maintenance of propellers. Reciprocating and turbine engine inspection and documentation. Prerequisites: Admission to the program.

ARH - Art Humanities

ARH100 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO ART

Understanding and enjoyment of art through study of painting, sculpture, architecture design, photography, and decorative arts. Emphasis on contemporary topics and cultural diversity in the arts. Prerequisites: None.

ARH101 / 3 CREDITS / 3 PERIODS

SUN ART 1101

PREHISTORIC THROUGH GOTHIC ART

History of art from prehistoric through medieval period. Prerequisites: None.

ARH102 / 3 CREDITS / 3 PERIODS

SUN ART 1102

RENAISSANCE THROUGH CONTEMPORARY ART

History of art from around the world from the Renaissance through contemporary period. Prerequisites: None.

ARH109 / 3 CREDITS / 3 PERIODS

HISTORY OF AMERICAN ART

Development and variety of American Art.

Presentation of architecture, sculpture,
painting and decorative objects. Prerequisites:
None.

ARH112 / 3 CREDITS / 3 PERIODS

HISTORY OF MODERN ART

Development and significant aspects of modern art, including comparisons of relationships in expressionism, abstractions, fantasy, and art since mid-century.

Prerequisites: None.

ARH145 / 3 CREDITS / 3 PERIODS

HISTORY OF AMERICAN INDIAN ART

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.

ARH203 / 3 CREDITS / 3 PERIODS

ART OF ANCIENT EGYPT

The art and culture of ancient Egypt from prehistoric through the Greco-Roman period. Prerequisites: None.

ARH204 / 3 CREDITS / 3 PERIODS

ROMAN ART AND ARCHITECTURE

Detailed examination of the art and architecture of ancient Rome from the monarchical period to the late empire, with emphasis on the visual culture and artifacts of the civilization. Prerequisites: None.

ART - Art

ART100 / 1 CREDIT / 2 PERIODS

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INTRODUCTION TO COMPUTER GRAPHIC ART

Conceptualization, visualization, and production of art using the computer. Prerequisites: None.

ART106 / 3 CREDITS / 6 PERIODS

GALLERY OPERATIONS

Operation of an art gallery. Includes organization, publicity, evaluation of artwork, selection and installation of exhibits. Prerequisites: Permission of Instructor. Course Notes: ART106 may be repeated for a total of six (6) credit hours.

ART111 / 3 CREDITS / 6 PERIODS

SUN ART 1111

DRAWING I

Fundamental principles of drawing. Emphasis on composition and facility in objective and expressive representation, using variety of drawing media. Prerequisites: None.

ART112 / 3 CREDITS / 6 PERIODS

SUN ART 1112

TWO-DIMENSIONAL DESIGN

Study of fundamental elements and principles of two-dimensional design. Prerequisites: None.

ART113 / 3 CREDITS / 6 PERIODS

COLOR

Investigation seeking visual solutions to a variety of problems concerning color in two and three dimensions and modes of color appearances, including light and effects in design and theory of design. Prerequisites: None.

ART115 / 3 CREDITS / 6 PERIODS

SUN ART 1115

THREE-DIMENSIONAL DESIGN

Fundamental principles of three-dimensional design. Prerequisites: None.

ART116 / 3 CREDITS / 6 PERIODS

LIFE DRAWING I

Use of form, structure and anatomy of draped and undraped human figure to develop

basic principles of sound draftsmanship. Prerequisites: None.

ART117 / 3 CREDITS / 6 PERIODS

LIFE DRAWING II

Further study of form, structure, and anatomy of the draped and undraped human figure with emphasis on composition. Prerequisites: ART116.

ART122 / 3 CREDITS / 6 PERIODS

DRAWING AND COMPOSITION II

Emphasis on composition and exploration of drawing media. Prerequisites: ART111.

ART131 / 3 CREDITS / 6 PERIODS

PHOTOGRAPHY I

Basic photographic principles and techniques. Basic camera functions and controls. Experience in the image-making process by creating and editing photographs for various display environments. Introduction to the photographic aesthetic and photography's role in society. Prerequisites: None. Course Note: Camera required.

ART132 / 3 CREDITS / 6 PERIODS

PHOTOGRAPHY II

Advanced camera and darkroom techniques.

Aesthetic awareness with personal expression.

Prerequisites: ART131 or permission of instructor.

ART142 / 3 CREDITS / 6 PERIODS

INTRODUCTION TO DIGITAL PHOTOGRAPHY

Fundamentals of digital photography. Includes camera operations, exposure techniques, introduction to digital output, and theory of digital photography. Prerequisites: None. Course Note: Digital camera required.

ART143 / 3 CREDITS / 6 PERIODS

INTERMEDIATE DIGITAL PHOTOGRAPHY

Intermediate theory and techniques of digital photography. Aesthetic awareness and personal expression from image capture through intermediate techniques in the digital darkroom. Introduction to high-resolution digital output. Prerequisites: ART142 or permission of instructor.

ART151 / 3 CREDITS / 6 PERIODS

SCULPTURE I

Exploration of sculptural form and expression in clay, plaster, stone, wood and metal.

Prerequisites: or Corequisites: ADA/ART115 or permission of Instructor.

ART161 / 3 CREDITS / 6 PERIODS

CERAMICS I

Introduction to ceramic materials and techniques of hand construction, decorating, glazing and throwing on potters' wheel.

Prerequisites: None.

ART162 / 3 CREDITS / 6 PERIODS

CERAMICS II

Major emphasis on wheel throwing, glaze making and decorating techniques. Prerequisites: ART161.

ART165 / 3 CREDITS / 6 PERIODS

WATERCOLOR PAINTING I

Transparent and Gouache watercolor painting. Prerequisites: (ART111 and ART112), or permission of instructor.

ART166 / 3 CREDITS / 6 PERIODS

WATERCOLOR PAINTING II

Painting in water soluble media. Emphasis on individual techniques and design. Prerequisites: ART165.

ART167 / 3 CREDITS / 6 PERIODS

PAINTING I

Exploration of technical and expressive possibilities of various painting media in easel painting. Prerequisites: (ART111 and ART112), or permission of instructor.

ART168 / 3 CREDITS / 6 PERIODS

PAINTING II

Continued refinement of painting skills and investigation of new possibilities in painting. Prerequisites: ART167 or permission of instructor.

ART169 / 3 CREDITS / 6 PERIODS

TWO-DIMENSIONAL COMPUTER DESIGN

Generation of electronic two-dimensional images and traditional methods of visual problem solving. Understanding of computer techniques and art presentation methods. Prerequisites or Corequisites: ART100 or permission of instructor.

ART173 / 3 CREDITS / 6 PERIODS

COMPUTER ART

Introduction to the multiple elements of paint software programs using the microcomputer. Basic foundation in the use of computer techniques including color paint programs for the production of computer images. Use of electronic input and output devices. Prerequisites: ART100, or permission of instructor.

ART177 / 3 CREDITS / 6 PERIODS

COMPUTER-PHOTOGRAPHIC IMAGING

Introduction to the multiple elements of microcomputer-photographic imaging. Basic foundation in the use of the photographic manipulation of images using software programs. Special attention to aesthetic foundations underlying photographic composition. Prerequisites or Corequisites: ART100 or permission of instructor.

ART190 / 3 CREDITS / 6 PERIODS

ART OF WEB SITE DESIGN

Introduction to design production for websites. Layout, typography and presentation style for HTML (Hyper Text Markup Language). Design of mock-ups using digital design software to produce artistic form and content for the Web using Hyper Text Markup Language (HTML), digital text, and graphics. Discussion of color, proportion, typography and Web-specific design principles. Emphasizes design of cross-browser compatible interfaces that optimize usability, accessibility and browser interoperability. Prerequisites: ART100, or permission of Instructor. CIS133DA recommended.

ART255AA / 1 CREDIT / 1 PERIOD

SELF PROMOTION

Career goals, presentation of artist, communication skills, keeping files and records, developing self-promotional materials. Prerequisites: None.

ART255AB / 1 CREDIT / 1 PERIOD

THE PORTFOLIO

Choosing the right pieces to include, presenting art work, developing the portfolio. Prerequisites: ART182, or ART/MMT185, or ART255AA, or permission of Instructor.

ART255AC / 1 CREDIT / 1 PERIOD

MARKETING FINE ART

Exhibitions and galleries, establishing a studio, alternative markets. Prerequisites: ART255AB or permission of Instructor.

ART270 / 3 CREDITS / 6 PERIODS

INTERMEDIATE COMPUTER PHOTOGRAPHIC IMAGING

Intermediate microcomputer-based photographic imaging techniques.
Refinement of aesthetic awareness and personal expression. Prerequisites: ART177 or (ART177AA and ART177AB).

ART274 / 3 CREDITS / 6 PERIODS

ADVANCED COMPUTER PHOTOGRAPHIC IMAGING

Advanced microcomputer-based photographic imaging techniques. Advanced manipulation techniques of photographic images. Continued development of aesthetic awareness and personal expression.

Prerequisites: ART270.

ART289 / 3 CREDITS / 6 PERIODS

COMPUTER ILLUSTRATION

Introduction to the multiple elements of commercial illustration using the microcomputer. Basic foundation in the use of computer techniques including color paint and draw programs for the production of commercial illustrations for publications and printed matter. Use of input and output

devices. Prerequisites or Corequisites: ART100 or permission of instructor.

ART290AA / 1 CREDIT / 2 PERIODS

ART290AB / 2 CREDITS / 4 PERIODS

ART290AC / 3 CREDITS / 6 PERIODS

STUDIO ART

Studio course for art majors allowing continuation in a subject field. Prerequisites: Permission of instructor. Course Notes: ART290AC students must have completed advanced courses in the subject field.

ART290BC / 3 CREDITS / 6 PERIODS

STUDIO ART: DRAWING

Studio course for art majors allowing continuation in a subject field. Prerequisites: ART111 or permission of Instructor. Course Notes: ART290BC may be repeated for credit.

ART290BC / 3 CREDITS / 6 PERIODS

STUDIO ART: LIFE DRAWING

Studio course for art majors allowing continuation in a subject field. Prerequisites: ART117 or permission of Instructor. Course Notes: ART290DC may be repeated for credit.

ART290EC / 3 CREDITS / 6 PERIODS

STUDIO ART: PHOTOGRAPHY

Studio course for art majors allowing continuation in a subject field. Prerequisites: ART132 or permission of Instructor. Course Notes: ART290EC may be repeated for credit.

ART290GC / 3 CREDITS / 6 PERIODS

STUDIO ART: CERAMICS

Studio course for art majors allowing continuation in a subject field. Prerequisites: ART162 or permission of Instructor. Course Notes: ART290GC may be repeated for credit.

ART290JC / 3 CREDITS / 6 PERIODS

STUDIO ART: COLOR

Studio course for art majors allowing continuation in a subject field. Prerequisites: ART113 or permission of Instructor. Course Notes: ART290JC may be repeated for credit.

ART290MC / 3 CREDITS / 6 PERIODS

STUDIO ART: DIGITAL PHOTOGRAPHY

Studio course for art majors allowing continuation in a subject field. Prerequisites: ART143 or permission of Instructor. Course Notes: ART290MC may be repeated for credit.

ART290PC / 3 CREDITS / 6 PERIODS

STUDIO ART: PAINTING

Studio course for art majors allowing continuation in a subject field. Prerequisites: ART168 or permission of Instructor. Course Notes: ART290PC may be repeated for credit.

ART295EC / 3 CREDITS / 6 PERIODS

ART WORKSHOP/SEMINAR: PAINTING

Advanced level workshop seminar in art disciplines. Prerequisites: Minimum of three

(3) credits introductory and three (3) credits intermediate level courses in specific field or permission of Department or Division Chair.

ART295GA / 1 CREDIT / 2 PERIODS

ART WORKSHOP/SEMINAR: CERAMICS

Advanced level workshop seminar in art disciplines. Prerequisites: Minimum of three (3) credits introductory and three (3) credits intermediate level courses in specific field or permission of Department or Division Chair.

ART295GB / 2 CREDITS / 4 PERIODS

ART WORKSHOP/SEMINAR: CERAMICS

Advanced level workshop seminar in art disciplines. Prerequisites: Minimum of three (3) credits introductory and three (3) credits intermediate level courses in specific field or permission of Department or Division Chair.

ART295HA / 1 CREDIT / 2 PERIODS

ART WORKSHOP/SEMINAR: MIXED MEDIA

Advanced level workshop seminar in art disciplines. Prerequisites: Minimum of three (3) credits introductory and three (3) credits intermediate level courses in specific field, or permission of Department/Division Chair.

ART295LB / 2 CREDITS / 4 PERIODS

ART WORKSHOP/SEMINAR: GLAZING TECHNIQUES

Advanced level workshop seminar in art

disciplines. Prerequisites: Permission of Instructor.

ART295LC / 3 CREDITS / 6 PERIODS

ART WORKSHOP/SEMINAR: GLAZING TECHNIQUES

Advanced level workshop seminar in art disciplines. Prerequisites: Permission of Instructor.

ASB - Anthropology

ASB102 / 3 CREDITS / 3 PERIODS

CULTURE IN A GLOBALIZING WORLD

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.

ASB211 / 3 CREDITS / 3 PERIODS

WOMEN IN OTHER CULTURES

Cross-cultural analysis of the economic, social, political, and religious factors that affect women's status in traditional and modern societies. Prerequisites: None.

ASB214 / 3 CREDITS / 3 PERIODS

MAGIC, WITCHCRAFT, AND HEALING: AN INTRODUCTION TO COMPARATIVE RELIGION

Origins, elements, and forms of religion; a comparative survey of religious beliefs, myths, rituals and symbolism including magic, witchcraft and healing as practiced in selected regions of the world; the place of religion in the total culture. Prerequisites: None.

ASB222 / 3 CREDITS / 3 PERIODS

BURIED CITIES AND LOST TRIBES: OLD WORLD

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 tend to fragment societies. Examples drawn from Africa, Asia, Europe, the Pacific Islands, and Australia. Prerequisites: None.

ASB223 / 3 CREDITS / 3 PERIODS

BURIED CITIES AND LOST TRIBES: NEW WORLD

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 America, Central America, and South America. Prerequisites: None.

ASB245 / 3 CREDITS / 3 PERIODS

INDIANS OF THE SOUTHWEST

Comparative study of the cultures, including the histories and present status, of Indians of the Southwest. Prerequisites: None.

ASB253 / 3 CREDITS / 3 PERIODS

DEATH AND DYING ACROSS CULTURES

Responses to death and dying in cultures around the world. Explanations for particular cultural responses to death and dying. Examples drawn from ancient and contemporary cultures. Prerequisites: None

AST - Astronomy

AST111 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO SOLAR SYSTEM ASTRONOMY

Introduction to astronomy for the non-science major. History of astronomy, properties of light, instruments, the solar system and nearby stars. Prerequisites: MAT092 or equivalent.

AST112 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO STARS, GALAXIES, AND COSMOLOGY

Introduction to astronomy for the non-science major. Structure and evolution of stars; star

clusters; galaxies; cosmology. Prerequisites: MAT092 or equivalent.

AST113 / 1 CREDIT / 3 PERIODS

INTRODUCTION TO SOLAR SYSTEM ASTRONOMY LABORATORY

Astronomical observations and exercises to supplement AST111. Prerequisites or Corequisites: AST111.

AST114 / 1 CREDIT / 3 PERIODS

INTRODUCTION TO STARS, GALAXIES, AND COSMOLOGY LABORATORY

Astronomical observations and exercises to supplement AST112. Prerequisites or Corequisites: AST112.

AST294 / 3 CREDIT / 3 PERIODS

SPECIAL TOPICS IN ASTRONOMY

Conceptual, experimental, and computational aspects of a special topic in astronomy.

Prerequisites: Permission of Department or Division. Course Notes: AST294 may be repeated for credit.

AST294AA / 2 CREDITS / 2 PERIODS

SPECIAL TOPICS IN ASTRONOMY

Conceptual, experimental, and computational aspects of a special topic in astronomy.

Prerequisites: Permission of Department or Division. Course Notes: AST294AA may be repeated for credit.

AST294AB / 1 CREDIT / 1 PERIOD

SPECIAL TOPICS IN ASTRONOMY

Conceptual, experimental, and computational aspects of a special topic in astronomy.

Prerequisites: Permission of Department or Division. Course Notes: AST294AB may be repeated for credit.

BIO - Biology

BIO100 / 4 CREDITS / 6 PERIODS

BIOLOGY CONCEPTS

Introductory course covering basic principles and concepts of biology. Methods of scientific inquiry and behavior of matter and energy in biological systems are explored. Prerequisites: None. Course Notes: Field trips may be required at students' expense.

BIO105 / 4 CREDITS / 6 PERIODS

ENVIRONMENTAL BIOLOGY

Fundamentals of ecology and their relevance to human impact on natural ecosystems. Field trips may be required at students' expense. Prerequisites: None.

BIO108 / 4 CREDITS / 6 PERIODS

PLANTS AND SOCIETY

A global study of plants in relation to humans; as a source of food, fiber, drugs, and other products; for aesthetic value, survival, and energy. Prerequisites: None.

BIO156 / 4 CREDITS / 6 PERIODS

INTRODUCTORY BIOLOGY FOR ALLIED HEALTH

An introductory biology course for allied health majors with an emphasis on humans. Topics include fundamental concepts of cell biology, histology, microbiology, and genetics. Prerequisites: A grade of "C" or better in RDG091 or higher or eligibility for CRE101 as indicated by appropriate reading placement test score. One year of high school or one-semester of college level chemistry is strongly recommended.

BIO160 / 4 CREDITS / 6 PERIODS

INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY

Principles of scientific method. Structural organization, homeostasis and control mechanisms of the body. Specific chemistry concepts. Structure and function of the major systems of the body. Prerequisites: None.

BIO181 / 4 CREDITS / 6 PERIODS

SUN BIO 1181

GENERAL BIOLOGY (MAJORS) I

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: A grade of "C" or better in RDG091 or higher or eligibility for CRE101 as indicated by appropriate reading placement test score. One year of high school or one semester of college-level biology and chemistry is strongly recommended.

BIO182 / 4 CREDITS / 6 PERIODS

SUN BIO 1182

GENERAL BIOLOGY (MAJORS) II

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 or BIO181XT. Course Notes: BIO182 may require field trips.

BIO201 / 4 CREDITS / 6 PERIODS

SUN BIO 2201

HUMAN ANATOMY AND PHYSIOLOGY I

Study of structure and function of the human body. Topics include cells, tissues, integumentary system, skeletal system, muscular system, and nervous system.

Prerequisites: (A grade of "C" or better in BIO156 or BIO156XT or BIO181 or BIO181XT or one year of high school biology) and a grade of "C" or better in RDG091 or higher or eligibility for CRE101 as indicated by reading placement test score. CHM130 or higher or one year of high school chemistry suggested but not required.

BIO202 / 4 CREDITS / 6 PERIODS

SUN BIO 2202

HUMAN ANATOMY AND PHYSIOLOGY II

Continuation of structure and function of the human body. Topics include endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems; and fluid and electrolyte balance. Prerequisites: A grade of "C" or better in BIO201 or BIO201XT.

BIO205 / 4 CREDITS / 6 PERIODS

SUN BIO 2205

MICROBIOLOGY

Study of microorganisms and their relationship to health, ecology, and related fields.

Prerequisites: (A grade of "C" or better in BIO156 or BIO156XT or BIO181 or BIO181XT or one year of high school biology) and a grade of "C" or better in RDG091 or higher or eligibility for CRE101 as indicated by reading placement test score. CHM130 or higher or one year of high school chemistry suggested but not required.

BIO220 / 4 CREDITS / 6 PERIODS

BIOLOGY OF MICROORGANISMS

Detailed study of microbial cells, their structure, genetics, physiology and taxonomy. Prerequisites: BIO181 Corequisites: (CHM152 and CHM152LL) or (CHM154 and CHM154LL)

BHS - Behavioral Health Sciences

BHS101 / 1 CREDIT / 2 PERIODS

INTRODUCTION TO ETHICAL COUNSELING ISSUES

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: None.

BPC - Business- Personal Computers

BPC110 / 3 CREDITS / 4 PERIODS

COMPUTER USAGE AND APPLICATIONS

Introduction to business and personal computer operations and usage. Software applications for analyzing and solving business problems including word processing, spreadsheet, database, and presentation graphics. Prerequisites: None.

BPC111AA / 1 CREDIT / 1.7 PERIODS

COMPUTER KEYBOARDING I

Mastery of essential microcomputer keyboarding skills. Emphasis on touch typing of alphabetic and numeric keys and symbols. Prerequisites: None.

BPC111AB / 1 CREDIT / 1.7 PERIODS

COMPUTER KEYBOARDING II

Further development of microcomputer keyboard speed and accuracy. Emphasis on touch typing with speed and accuracy development of numerals as related to preparation and handling of documents.

Prerequisites: BPC/OAS111AA or permission of instructor.

BPC115AA / 1 CREDIT / 2 PERIODS

PERSONAL FINANCE SOFTWARE: QUICKEN - LEVEL I

Introduction to the basic features of Quicken, a computerized personal finances software program. Prerequisites: None.

BPC128 / 1 CREDIT / 2 PERIODS

INTRODUCTION TO DESKTOP PUBLISHING

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.

BPC128AF / 1 CREDIT / 2 PERIODS

INTRODUCTION 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.

BPC170 / 3 CREDITS / 4 PERIODS

A+ EXAM PREP: COMPUTER HARDWARE CONFIGURATION AND SUPPORT

Explore technical aspects of personal computers, including system components, installation, system configuration, peripheral devices, and notebooks. Emphasis placed on hardware installation, maintenance, mobile devices, and hardware troubleshooting. Helps prepare students for the CompTIA A+ examinations. Prerequisites: CIS105 or permission of Instructor.

BPC171 / 1 CREDIT / 2 PERIODS

RECYCLING USED COMPUTER TECHNOLOGY

Use of hardware maintenance knowledge and skills to refurbish used computers. May be repeated for a total of three (3) credits. Prerequisites or Corequisites: BPC270 or permission of instructor.

BPC270 / 3 CREDITS / 4 PERIODS

A+ EXAM PREP: OPERATING SYSTEM CONFIGURATION AND SUPPORT

Explore advanced technical aspects of maintaining and servicing computers.
Emphasis placed on OS installation, maintenance, mobile devices, security, software troubleshooting, and on proper usage of tools, safety procedures, and professionalism. Helps prepare students for the CompTIA A+ examinations. Prerequisites: BPC170 with grade of C or better, or permission of Instructor.

CFS - Child/Family Studies

CFS176 / 3 CREDITS / 3 PERIODS

CHILD DEVELOPMENT

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

CHM - Chemistry

CHM107 / 3 CREDITS / 3 PERIODS

CHEMISTRY AND SOCIETY

A survey of chemistry and its impact on the environment. Completion of CHM107LL required to meet the Natural Science requirement. Prerequisites: None.

CHM107LL / 1 CREDIT / 3 PERIODS

CHEMISTRY AND SOCIETY LABORATORY

Laboratory experience in support of CHM107. Prerequisites or Corequisites: CHM107.

CHM130 / 3 CREDITS / 3 PERIODS

SUN CHM 1130

FUNDAMENTAL CHEMISTRY

A survey of the fundamentals of general chemistry. Emphasis on essential concepts and problem solving techniques. Basic

principles of measurement, chemical bonding, structure and reactions, nomenclature, and the chemistry of acids and bases. Preparation for students taking more advanced courses in chemistry. Designed to meet needs of students in such diverse areas as agriculture, nursing, home economics, physical education and water technology. Prerequisites: A grade of "C" or better in [CHM090 or MAT090 or MAT091 or MAT092 or (MAT092AA and MAT092AB) or MAT093 or (MAT103AA and MAT103AB) or higher or satisfactory score on math placement exam] and [RDG091 or higher or eligibility for CRE101 as indicated by appropriate reading placement test score].

CHM130AA/ 4 CREDIT / 6 PERIODS

FUNDAMENTAL CHEMISTRY WITH LAB

A survey of the fundamentals of general chemistry. Emphasis on essential concepts and problem solving techniques. Basic principles of measurement, chemical bonding, structure and reactions, nomenclature, and the chemistry of acids and bases. Preparation for students taking more advanced courses in chemistry. Designed to meet needs of students in such diverse areas as agriculture, nursing, home economics, physical education and water technology. Prerequisites: A grade of "C" or better in [CHM090 or MAT090 or MAT091 or MAT092 or (MAT092AA and MAT092AB) or MAT093 or (MAT103AA and MAT103AB) or higher or satisfactory score on math placement exam] and [RDG091 or

higher or eligibility for CRE101 as indicated by appropriate reading placement test score]. Course Notes: Student may receive credit for only one of the following: CHM130 and CHM130LL, or CHM130AA.

CHM130LL / 1 CREDIT / 3 PERIODS

SUN CHM 1130

FUNDAMENTAL CHEMISTRY LABORATORY

Laboratory experience in support of CHM130. Prerequisites or Corequisites: A grade of "C" or better in CHM130.

CHM138 / 3 CREDITS / 3 PERIODS

CHEMISTRY FOR ALLIED HEALTH

Elements of fundamental and organic chemistry. Includes the general chemical behavior of inorganic matter and the structure of organic and biochemical systems. Course designed for specific allied health programs at MCCD. May not be applicable to other allied health programs or transferable. Prerequisites: A grade of "C" or better in CHM090, or one year of high school chemistry with a grade of "C" or better, or MAT092, or satisfactory score on placement exam.

CHM138LL / 1 CREDIT / 3 PERIODS

CHEMISTRY FOR ALLIED HEALTH LAB

Laboratory experience in support of CHM138, Chemistry for Allied Health. Prerequisites: None. Corequisites: CHM138.

CHM151 / 3 CREDITS / 3 PERIODS

SUN CHM 1151

GENERAL CHEMISTRY I

Detailed study of principles of chemistry for science majors and students in preprofessional curricula. Prerequisites: A grade of "C" or better in [(CHM130 and CHM130LL), or CHM130AA, or one year of high school chemistry taken within the last five years] and (MAT151 or higher level mathematics course). Completion of all prerequisites within the last two years is recommended. Course Notes: Student may receive credit for only one of the following: CHM150 and CHM151LL, or CHM151 and CHM151LL, or CHM151AA.

CHM151AA/ 4 CREDIT / 6 PERIODS

GENERAL CHEMISTRY I

Detailed study of principles of chemistry for science majors and students in preprofessional curricula. Prerequisites: [(CHM130 and CHM130LL), or CHM130AA, or one year of high school chemistry with a grade of C or better taken within the last five years], and completion of MAT151 or higher level mathematics course with grade of C or better. Completion of all prerequisites within the last two years is recommended. Course Notes: Student may receive credit for only one of the following: CHM150 and CHM151LL, or CHM151 and CHM151LL, or CHM151AA.

CHM151LL / 1 CREDIT / 3 PERIODS

SUN CHM 1151

GENERAL CHEMISTRY I LABORATORY

Laboratory experience in support of CHM150 or CHM151. Prerequisites or Corequisites: A grade of "C" or better in CHM150 or CHM151. Course Notes: Student may receive credit for only one of the following: CHM150 and CHM151LL, or CHM151 and CHM151LL, or CHM151AA.

CHM152 / 3 CREDITS / 3 PERIODS

SUN CHM 1152

GENERAL CHEMISTRY II

A study of the chemical properties of the major groups of elements, equilibrium theory, thermodynamics, electrochemistry, and other selected topics. Prerequisites: A grade of "C" or better in [(CHM150 or CHM151) and CHM151LL], or CHM150AA, or CHM151AA. Completion of prerequisites within the last two years recommended. Course Notes: Completion of CHM152LL required to meet the Natural Science requirement. Student may receive credit for only one of the following: CHM152 and CHM152LL, or CHM152AA.

CHM152AA/ 4 CREDIT / 6 PERIODS

GENERAL CHEMISTRY II

A study of the chemical properties of the major groups of elements, equilibrium theory, thermodynamics, electrochemistry, and other selected topics. Prerequisites: A grade

of "C" or better in [(CHM150 or CHM151) and CHM151LL], or CHM150AA, or CHM151AA. Completion of prerequistes within the last two years recommended. Course Notes: Student may receive credit for only one of the following: CHM152 and CHM152LL, or CHM152AA.

CHM152LL / 1 CREDIT / 3 PERIODS

SUN CHM 1152

GENERAL CHEMISTRY II LABORATORY

Laboratory experience in support of CHM152. Prerequisites or Corequisites: A grade of "C" or better in CHM152. Course Notes: Student may receive credit for only one of the following: CHM152 and CHM152LL, or CHM152AA.

CHM230 / 3 CREDITS / 3 PERIODS

SUN CHM 2230

FUNDAMENTAL ORGANIC CHEMISTRY

Chemistry of representative groups of organic compounds, emphasizing biological applications. Prerequisites: (CHM130 and CHM130LL), or (CHM151 and CHM151LL). Completion of (CHM130 and CHM130LL) or (CHM151 and CHM151LL) within the last two years recommended. Course Note: Course content designed to meet the needs of students in agriculture home economics, nursing, pre-physician assistant, and physical education among others.

CHM230LL / 1 CREDIT / 3 PERIODS

SUN CHM 2230

FUNDAMENTAL ORGANIC CHEMISTRY LABORATORY

Laboratory experience in support of CHM230. Prerequisites: CHM130LL, or CHM151LL, or equivalent. Prerequisites or Corequisites: CHM230.

CHM235 / 3 CREDITS / 3 PERIODS

SUN CHM 2235

GENERAL ORGANIC CHEMISTRY I

Rigorous introduction to chemistry of carbon-containing compounds. Reaction mechanisms and recent methods of synthesis emphasized. Prerequisites: A grade of "C" or better in (CHM152 and CHM152LL), or CHM152AA, or (CHM154 and CHM154LL). Completion of prerequisites within the last two years recommended.

CHM235LL / 1 CREDIT / 4 PERIODS

SUN CHM 2235

GENERAL ORGANIC CHEMISTRY I LABORATORY

Laboratory experience in support of CHM235. Prerequisites or Corequisites: A grade of "C" or better in CHM235. Completion of prerequisites within the last two years recommended.

CHM236 / 3 CREDITS / 3 PERIODS

SUN CHM 2236

GENERAL ORGANIC CHEMISTRY IIA

Study of chemistry of carbon-containing compounds continued. Structural

determination and additional reaction mechanisms and modern methods of synthesis emphasized. Prerequisites: A grade of "C" or better in CHM235 and CHM235LL. Completion of prerequisites within the last two years recommended.

CHM236LL / 1 CREDIT / 4 PERIODS

SUN CHM 2236

GENERAL ORGANIC CHEMISTRY IIA LABORATORY

Laboratory experience in support of CHM236. Prerequisites or Corequisites: A grade of "C" or better in CHM236. Completion of prerequisites within the last two years recommended.

CHM260 / 3 CREDITS / 3 PERIODS

FUNDAMENTAL BIOCHEMISTRY

Structures, properties, and functions of proteins, enzymes, nucleic acids, carbohydrates and lipids; the utilization and synthesis of these materials by living systems and the relationship of the processes to energy production and utilization. Designed for students in agriculture, dental hygiene, home economics, nursing, and physical therapy. Prerequisites: A grade of "C" or better in (CHM230 and CHM230LL) or (CHM235 and CHM235LL). Completion of prerequisites within the last two years recommended.

CHM260LL / 1 CREDIT / 3 PERIODS

FUNDAMENTAL BIOCHEMISTRY LABORATORY

Laboratory experience in support of CHM260. Prerequisites or Corerequisites: A grade of "C" or better in CHM260. Completion of prerequisites within the last two years recommended.

CHM298AA/ 1 CREDIT / 1 PERIOD

SPECIAL PROJECTS

Organized and tailored around the interests and needs of the individual student.

Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance.

Professional-type facilities and equipment 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

CIS - Computer Information Systems

CIS102DA / 3 CREDIT / 4 PERIODS

CUSTOMER USER SUPPORT

Examines skills, tools and strategies necessary for becoming a computer help-desk or end-user support professional.

Prerequisites: None.

CIS103 / 3 CREDITS / 4 PERIODS

INTRODUCTION TO SOCIAL MEDIA

Identify and explain social media and Web 2.0 technologies for personal, academic, professional, and business applications.

Create and maintain accounts on various sites to socialize, write, and share multimedia, while understanding the related ethics, privacy and security issues. Prerequisites: None.

CIS105 / 3 CREDITS / 4 PERIODS

SUN CIS 1120

SURVEY OF COMPUTER INFORMATION SYSTEMS

Overview of computer technology, concepts, terminology, and the role of computers in business and society. Discussion of social and ethical issues related to computers. Use of word processing, spreadsheet, database, and presentation software. Includes uses of application software and the Internet for efficient and effective problem solving. Exploration of relevant emerging technologies. Prerequisites: None.

CIS113DE / 3 CREDITS / 4 PERIODS

MICROSOFT WORD: WORD PROCESSING

Using word processing software to create, name and manage files, edit text, format, apply themes and styles, create and modify tables, apply desktop publishing features, and print a variety of types of documents. Prerequisites: None.

CIS114DE / 3 CREDITS / 4 PERIODS

EXCEL SPREADSHEET

Computer spreadsheet skills for solving business problems using Excel, including calculations, forecasting, projections, macro programming, database searching, extraction, linking, statistics, and matrix manipulation. Production of graphs and reports. Project design using multiple, integrated spreadsheets. Prerequisites: None.

Course Notes: CIS114DE may be repeated for a total of nine (9) credit hours.

CIS117DM / 3 CREDITS / 4 PERIODS

MICROSOFT ACCESS: DATABASE MANAGEMENT

Introduction to the basic elements, exploration of additional components and common database management problems related to the Microsoft Access program. Prerequisites: None CIS117DM combines the contents of CIS117AM, CIS117BM and CIS117CM.

Course Notes: CIS114DE may be repeated for a total of nine (9) credit hours.

CIS118DB / 3 CREDITS / 5 PERIODS

DESKTOP PRESENTATION: POWERPOINT

Use of PowerPoint to produce professionalquality presentation visuals with animation and sound. Prerequisites: None

CIS119DO / 3 CREDITS / 4 PERIODS

INTRODUCTION TO ORACLE: SQL

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 / 3 CREDITS / 4 PERIODS

ORACLE: DATABASE ADMINISTRATION

Basic administrative tasks performed by a database aBasic 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 (CIS126++ or CIS121++ or MST152++), or permission of Instructor.

CIS120DP / 3 CREDITS / 4 PERIODS

ADOBE ACROBAT PRO: PORTABLE DOCUMENT FORMAT (PDF) FILES

Introduction to creating PDF (Portable Document Format) files using Adobe Acrobat for web viewing and printing. Addresses creation of interactive PDF documents including security settings, navigation links, and form fields. Prerequisites: None.

CIS120AF / 1 CREDIT / 2 PERIODS

COMPUTER GRAPHICS: ADOBE PHOTOSHOP: LEVEL I

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.

CIS120DB / 3 CREDITS / 4 PERIODS

COMPUTER GRAPHICS: ADOBE ILLUSTRATOR

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.

CIS120DC / 3 CREDITS / 4 PERIODS

ADOBE ANIMATE: DIGITAL ANIMATION

Focuses on entry-level skill expectations for digital animation using Adobe Animate. Covers basic animation techniques used in the creation, manipulation, and editing of animation graphics. Helps students prepare for the Adobe certifications related to Adobe Animate. Prerequisites: None.

CIS120DF / 3 CREDITS / 4 PERIODS

COMPUTER GRAPHICS: ADOBE PHOTOSHOP

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.

CIS121AB / 1 CREDIT / 2 PERIODS

MICROSOFT COMMAND LINE OPERATIONS

Use of the Microsoft command line interface: basic concepts, internal and external commands, subdirectories, and editor.
Prerequisites: None.

CIS121AE / 1 CREDIT / 2 PERIODS

WINDOWS OPERATING SYSTEM: LEVEL I

Specific topics include booting and shutting down the computer, navigating the desktop, start button features, taskbar status, and receiving on-line help support. Exploring and managing folders and files, running programs, and learning about Wordpad and Paint application programs. Prerequisites: None.

CIS121AH / 3 CREDIT / 4 PERIODS

MICROSOFT POWERSHELL/ COMMAND LINE OPERATIONS

Day-to-day command line administration tasks of Microsoft Windows. PowerShell used to create scripts to administer Microsoft windows environment. Prerequisites: None. MST150 recommended but not required.

CIS126DL / 3 CREDITS / 4 PERIODS

LINUX OPERATING SYSTEM

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 entry-level industry certification covered. Prerequisites: None.

CIS133DA / 3 CREDITS / 4 PERIODS

INTERNET/WEB DEVELOPMENT LEVEL I

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.

CIS150AB / 3 CREDITS / 4 PERIODS

OBJECT-ORIENTED PROGRAMMING FUNDAMENTALS

Structured and Object-Oriented design and logic tools. Use of computer problems to demonstrate and teach concepts using appropriate programming language.

Prerequisites: CIS105, or permission of instructor.

CIS151 / 3 CREDITS / 4 PERIODS

COMPUTER GAME DEVELOPMENT - LEVEL I

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. Prerequisites: CIS105 or permission of Instructor.

CIS154 / 3 CREDITS / 4 PERIODS

DATABASE MODELING AND DESIGN

Top-down, systematic approach to defining a database design based on analysis of business information and requirements. Identifying and evaluating standard data model and design patterns. Developing an entity-relationship (ER) diagram that accurately reflects the business. Mapping the ER diagram to an initial database design and revising for complex entities, attributes, and relationships Prerequisites: CIS105 or permission of Instructor.

CIS159 / 3 CREDITS / 4 PERIODS

VISUAL BASIC PROGRAMMING I

Use of the Visual Basic programming language to solve problems using suitable examples from business or other disciplines.

Prerequisites: CIS105, or permission of instructor.

CIS162AB / 3 CREDITS / 4 PERIODS

C++: LEVEL I

Introduction to C++ programming including general concepts, program design, development, data types, operators, expressions, flow control, functions, classes, input and output operations, debugging, structured programming, and object-oriented programming. Prerequisites: CIS105, or permission of instructor.

CIS162AD / 3 CREDITS / 4 PERIODS

C#: LEVEL I

Introduction to C# programming including general concepts, program design, development, data types, operators, expressions, flow control, functions, classes, input and output operations, debugging, structured programming, and object-oriented programming. Prerequisites: CIS105, or permission of instructor.

CIS163AA / 3 CREDITS / 4 PERIODS

JAVA PROGRAMMING: LEVEL I

Introduction to Java programming. Includes features needed to construct Java Applets, Java Applications, control structures, methods, arrays, character and string manipulation, graphics, and object-oriented programming. Prerequisites: CIS105.

CIS164AB / 3 CREDITS / 4 PERIODS

ORACLE: PL/SQL PROGRAMMING

Writing PL/SQL procedures, functions, and packages. Creating and managing PL/SQL program units and database triggers in Oracle development environment.

Managing dependencies and manipulating large objects. Prerequisites: CIS119DO, or permission of the instructor.

CIS165DA / 3 CREDITS / 4 PERIODS

ANDROID MOBILE DEVICE PROGRAMMING

Beginning with an overview of Android features, this class explores the required software tools and programming techniques for developing Android device applications from creating the user interface, working with activities, intents and views, to using databases, providing data persistence, accessing device features and services, to debugging and publishing applications. Prerequisites: CIS163AA, or permission of Instructor.

CIS166 / 3 CREDITS / 4 PERIODS

WEB SCRIPTING/PROGRAMMING

Software development for Web sites, including client-side script and Common Gateway Interface (CGI) scripting. Covers Web-based transaction processing and use of databases in conjunction with the Web. Includes security issues. Prerequisites: CIS133CA or CIS133DA or permission of instructor.

CIS166AA / 3 CREDITS / 4 PERIODS

INTRODUCTION TO JAVASCRIPTING

Introduction to basic JavaScript programming concepts including syntax. Covers Hypertext Markup Language (HTML), programming logic and debugging, as well as forms manipulation and animation. Prerequisites: CIS133CA or CIS133DA or permission of instructor.

CIS190 / 3 CREDITS / 4 PERIODS

INTRODUCTION TO LOCAL AREA NETWORKS

Overview of local area networks. Emphasis on the elements of a local area network, current issues and products, and use of a local area network. Includes terminology, hardware and software components, connectivity, resource monitoring and sharing, electronic mail and messaging, and security issues. Prerequisites: CIS105, or permission of instructor.

CIS213DE / 3 CREDITS / 4 PERIODS

ADVANCED MICROSOFT WORD: WORD PROCESSING

Using advanced word processing software features to perform tasks such as mail merge, collaboration, web pages, math functions, macros, photo enhancements, graphics, tables, forms and manage long documents.

Prerequisites: CIS113DE or (CIS113AE and CIS113BE and CIS113CE) or permission of Instructor.

CIS217AM / 3 CREDITS / 4 PERIODS

ADVANCED MICROSOFT ACCESS: DATABASE MANAGEMENT

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: CIS117CM or CIS117DM.

CIS217AM / 3 CREDITS / 5 PERIODS

ADVANCED EXCEL SPREADSHEET: LEVEL II

Advanced Excel spreadsheet features including formatting techniques, macros and Visual Basic for applications. Templates, built-in functions and lists as well as analysis tools including Pivot Tables and Goal Seek covered. Import and export data, workgroup collaboration and Internet features of Excel emphasized Prerequisites: CIS114DE or permission of Instructor.

CIS225AB / 3 CREDITS / 4 PERIODS

OBJECT-ORIENTED ANALYSIS AND DESIGN

Methodologies and notations for fundamental object-oriented analysis and design including use cases, objects, classes, stereotypes, and relationships. Object-oriented iterative process for system development. A continuous application development exercise for applying the analysis and design concepts.

Prerequisites: Any programming language or permission of Instructor.

CIS233DA / 3 CREDITS / 4 PERIODS

INTERNET/WEB DEVELOPMENT LEVEL II

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: CIS133CA or CIS133DA or permission of instructor.

CIS235 / 3 CREDITS / 4 PERIODS

E-COMMERCE

Introduction to Electronic Commerce on the Internet. Designing an electronic storefront including web page content and development, e-commerce site marketing, advertisement, legal and security considerations, credit card and other debit transaction covered. Also includes current issues in e-commerce. Prerequisites: CIS133CA, or CIS133DA, or permission of instructor.

CIS238DL / 3 CREDITS / 4 PERIODS

LINUX SYSTEM ADMINISTRATION

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.

CIS239DL / 3 CREDITS / 4 PERIODS

LINUX SHELL SCRIPTING

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: CIS126DL or permission of Instructor.

CIS240DL / 3 CREDITS / 4 PERIODS

LINUX NETWORK ADMINISTRATION

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 multi-platform 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.

CIS250 / 3 CREDITS / 4 PERIODS

MANAGEMENT OF INFORMATION SYSTEMS

The study of business information systems and its management, communication, e-business 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.

CIS259 / 3 CREDITS / 4 PERIODS

VISUAL BASIC PROGRAMMING II

Use of the Visual Basic programming language to identify and solve advanced problems using suitable examples from business or other disciplines. Prerequisites: CIS159 or permission of instructor.

CIS263AA / 3 CREDITS / 4 PERIODS

JAVA PROGRAMMING: LEVEL II

Intermediate Java programming. Includes features needed to construct object-oriented programming, multithreading, multimedia, files, streams and data structure. Prerequisites: CIS163AA or permission of the instructor.

CIS271DL / 3 CREDITS / 4 PERIODS

LINUX SECURITY

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.

CIS276DA / 3 CREDITS / 4 PERIODS

MYSQL DATABASE

A broad overview of the MySQL database. Includes Structured Query Language (SQL) instruction for data definition, data manipulation, and data retrieval. Develops knowledge and skills required to install MySQL, model and create new databases, manage users, authentication, and stored procedures, and develop backup/restore strategies. Prerequisites: CIS105 or permission of instructor.

CIS280 / 3 CREDITS / 4 PERIODS
CIS280AA / 1 CREDIT / 2 PERIODS

CURRENT TOPICS IN COMPUTING

Critical inquiry of current topics in computing. Application of industry trends

to solve problems and/or investigate issues. Prerequisites: None.

CIS290AA / 1 CREDIT / 6 PERIODS

CIS290AB / 2 CREDITS / 12 PERIODS

CIS290AC / 3 CREDITS / 18 PERIODS

COMPUTER INFORMATION SYSTEMS INTERNSHIP

Work experience in business or industry. Prerequisites: Permission of instructor.

CIS296WA / 1 CREDIT / 5 PERIODS

CIS296WB / 2 CREDITS / 10 PERIODS

CIS296WC / 3 CREDITS / 15 PERIODS

COOPERATIVE EDUCATION

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.

CNT - Cisco Network Technology

CNT140AA / 4 CREDITS / 6 PERIODS

INTRODUCTION TO NETWORKS

Introduces the architecture, structure,

functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced. Students will build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. Preparation for Cisco certification examination.

Prerequisites: None.

CNT150AA / 4 CREDITS / 6 PERIODS

CISCO - ROUTING AND SWITCHING ESSENTIALS

Architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. Configuration and troubleshooting routers and switches and resolving common issues with RIPv1, RIPng, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Preparation for Cisco certification examination. Prerequisites: CNT140AA or permission of Instructor.

CNT160AA / 4 CREDITS / 6 PERIODS

SCALING NETWORKS

Architecture, components, and operations of routers and switches in large and complex networks. Configuring routers and switches for advanced functionality. Configuring and troubleshooting routers and switches and resolving common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. Developing the knowledge and skills needed to implement a WLAN in a small-to-medium network. Preparation for Cisco certification examination. Prerequisites: CNT150AA or permission of Instructor.

CNT170AA / 4 CREDITS / 6 PERIODS

CISCO - CONNECTING NETWORKS

Wide Area Network (WAN) technologies and network services required by converged applications in a complex network. Criteria selection of network devices and WAN technologies to meet network requirements. Configuring and troubleshooting network devices, and resolving common issues with data link protocols issues, and developing the knowledge and skills needed to implement Internet Protocol Security (IPSec) and Virtual Private Network (VPN) operations. Preparation for Cisco certification examination. Prerequisites: CNT160AA or permission of

Instructor.

CNT185 4 CREDITS / 5 PERIODS

CISCO NETWORK SECURITY

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, security technologies, products and solutions, secure firewall design, installation, configuration and maintenance, Authentication, Authorization, and Accounting (AAA), Failover, and Virtual Private Network (VPN) implementation using firewalls. Prerequisites: CNT170 or permission of Instructor.

CNT200 / 4 CREDITS / 6 PERIODS

CCNP ROUTE: IMPLEMENTING CISCO IP ROUTING

Development of knowledge and skills needed to manage Internet Protocol (IP) traffic and access, understand scalable internetworks configure advanced routing protocols Border Gateway Protocol [BGP], Enhanced Interior Gateway Routing Protocol [EIGRP], Open Shortest Path First [OSPF], as well as Internet Protocol (IPv6), and configuration of secure routing solutions to support branch offices and mobile workers. Comprehensive labs emphasize hands-on learning and practice to reinforce configuration skills. Prerequisites: CNT170AA, or CCNA industry certification, or permission of Instructor. Corequisites: CNT220. Course Notes: Preparation for Cisco Certified Network Professional (CCNP exam.

CNT202 / 4 CREDITS / 5 PERIODS

CISCO SECURE FIREWALL APPLIANCE CONFIGURATION

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, Authentication, Authorization, and Accounting (AAA), Failover, and Virtual Private Network (VPN) implementation using firewalls. Prerequisites: CNT170AA or permission of Instructor.

CNT205 / 4 CREDITS / 6 PERIODS

CISCO CERTIFIED NETWORK ASSOCIATE SECURITY

Associate-level knowledge and skills required to secure Cisco networks. Development of a security infrastructure, identification of threats and vulnerabilities to networks. Mitigation of security threats. Core security technologies. Installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices. Competency in the technologies that Cisco uses in its security structure. Prerequisites: CNT170 or CNT170AA or Certified Cisco Networking Associate (CCNA) certification or permission of Instructor.

CNT206 / 4 CREDITS / 6 PERIODS

CISCO CERTIFIED NETWORK ASSOCIATE WIRELESS

Associate-level knowledge and skills required in Cisco wireless networks. Includes

comprehensive hands-on labs to design, plan, implement, operate, secure, and troubleshoot wireless networks. Prerequisites: CNT170, or CNT170AA, or permission of Instructor. Course Notes: Prepares students to earn Cisco Certified Network Associate Wireless (CCNA Wireless) designation by taking the Implementing Cisco Unified Wireless Networks Essentials (IUWNE) exam.

CNT220 / 4 CREDITS / 6 PERIODS

CCNP SWITCH: IMPLEMENTING CISCO IP SWITCHING

Development of knowledge and skills in building, monitoring, and maintaining switching in converged enterprise networks using advanced and multi-layer switching technologies. Planning, configuring, securing and verifying the implementation of complex enterprise switching solutions. Hands-on learning and practice to reinforce configuration skills. Prerequisites: CNT170AA, or CCNA industry certification, or permission of Instructor. Corequisites: CNT200. Course Notes: Preparation for Cisco Certified Network Professional (CCNP) exam.

COM - Communication

COM095 / 3 CREDITS / 3 PERIODS

BASIC ORAL COMMUNICATION SKILLS

Listening, speaking, and related academic performance skills, including note taking. Emphasis on activities designed to improve and synthesize these skills.

Prerequisites: None.

COM100 / 3 CREDITS / 3 PERIODS

SUN COM 1100

INTRODUCTION TO HUMAN COMMUNICATION

Theory and practice of communication skills in public, small group, and interpersonal settings. Includes study of the speech communication process. Prerequisites: None.

COM110 / 3 CREDITS / 3 PERIODS

SUN COM 1110

INTERPERSONAL COMMUNICATION

Theory and practice of communication skills which affect day-to-day interactions with other persons. Topics may include using verbal and nonverbal symbols, interactive listening, resolving interpersonal conflict, developing and maintaining personal and professional relationships. Prerequisites: None.

COM207 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO COMMUNICATION INQUIRY

Overview of theory and methodological practice in communication with particular attention to scholarly writing skills. Emphasis on development of critical thinking skills through active participation in the research process. Prerequisites: ENG101 or ENG107 or equivalent, and COM100 or equivalent, or permission of instructor. Course Note: Recommended for the communication major.

COM225 / 3 CREDITS / 3 PERIODS

PUBLIC SPEAKING

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 / 3 CREDITS / 3 PERIODS

OSUN COM 2271

SMALL GROUP COMMUNICATION

Principles and processes of small groups and development of skills for participation and leadership in small group settings. Practice in problem solving, decision making, and information sharing. Prerequisites: None.

COM250 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO ORGANIZATIONAL COMMUNICATION

Introduction to the study of communication in organizations including identification of variables, roles and patterns influencing communication in organizations.

Prerequisites: None.

COM259 / 3 CREDITS / 3 PERIODS

COMMUNICATION IN BUSINESS AND PROFESSIONS

Interpersonal, group, and public communication in business and professional organizations. Emphasis on oral communication. Prerequisites: ENG101, or ENG107, or equivalent.

COM263 / 3 CREDITS / 3 PERIODS

ELEMENTS OF INTERCULTURAL COMMUNICATION

Basic concepts, principles, and skills for improving oral communication between persons from different minority, racial, ethnic, and cultural backgrounds. Prerequisites: None

CPD - Counseling and Personal Development

CPD101 / 2 CREDITS / 2 PERIODS

PERSONAL DEVELOPMENT

Designed to assist students in developing confidence in making personal, social, and educational decisions. Examination and assessment of individual needs, interests, abilities and values to develop and strengthen interpersonal communication, enhance transitional skills and identify realistic life planning goals. Prerequisites: None.

CPD102AB / 2 CREDITS / 2 PERIODS

CAREER EXPLORATION

Designed to assist students make informed career decisions. Focuses on current occupational trends and outlook. Explores career-related interests, values, needs, preferences, skills, and strengths with the use of various assessments. Aids in the development of individualized educational/career goals and action plan. Prerequisites: None. Course Notes: CPD102AB may be repeated for a total of six (6) credit hours.

CPD102AF / 2 CREDITS / 2 PERIODS

HUMAN SEXUALITY

Enables students to view their own sexuality as a normal aspect of personal development. Examination of masculine and feminine differences and/or conflicts in social roles, emotions, and physical development. Prerequisites: None.

CPD102AH / 2 CREDITS / 2 PERIODS

STRESS MANAGEMENT

Reviews the sources of stress, the physiological effects and the psychological impact of stress on the individual. Provides strategies to reduce stress. Prerequisites: None.

CPD103BA / 2 CREDITS / 2 PERIODS

WOMEN IN TRANSITION

Designed to assist and support women who are experiencing life transitions. Emphasis on assessing self-potential, increasing self-confidence, managing life change, and exploring education/career/life options in terms of the realities of roles for women today. Prerequisites: None.

CPD104 / 3 CREDITS / 3 PERIODS

CAREER AND PERSONAL DEVELOPMENT

An overview of the process of career/ life planning through self-awareness and understanding. Focus on specific skill development such as dealing with change, decision making, goal setting and understanding lifestyles. Provides opportunity to evaluate interests, skills and values. Emphasis on the development of a comprehensive career search process which includes current occupational information, specific tools for researching the job market and acquiring employment. Prerequisites: None.

CPD150 / 3 CREDITS / 3 PERIODS

STRATEGIES FOR COLLEGE SUCCESS

Focus on increasing student success through college orientation and personal growth, study skills development, and educational and career planning. Prerequisites: None.

CPD150AA / 1 CREDIT / 1 PERIOD

COLLEGE ORIENTATION & PERSONAL GROWTH

Emphasis on increasing student success through college orientation, identification of learning style and the use of time management, goal-setting, and interpersonal communication strategies. Prerequisites: None.

CPD150AB / 1 CREDIT / 1 PERIOD

STUDY SKILLS DEVELOPMENT

Emphasis on increasing student success through the use of study strategies including materials organization, note-taking, reading, test-taking, memory, and critical and creative thinking. Prerequisites: None.

CPD150AC / 1 CREDIT / 1 PERIOD

EDUCATIONAL AND CAREER PLANNING

Emphasis on increasing student success through educational and career planning. Prerequisites: None.

CPD160 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO MULTICULTURALISM

Examination of the multiple cultures and subcultures within the contemporary United States. Personal exploration of awareness and appreciation of multiculturalism. Activities for experiencing diverse cultural perspectives. Critical thinking skills for recognizing, analyzing, and mediating cultural and psychological factors impacting conflict and accord between diverse cultures through written and oral discourse. Prerequisites: ENG101, or ENG107, or permission of Instructor.

CRE - Critical Reading

CRE101 / 3 CREDITS / 3 PERIODS

COLLEGE CRITICAL READING AND CRITICAL THINKING

Develop and apply critical thinking skills through critically reading varied and challenging materials. Includes analysis, evaluation, interpretation, and synthesis through at least two substantial writing and/ or speaking tasks. Prerequisites: (A grade of "C" or better in ENG101 or ENG107) and (appropriate reading placement test score or a grade of "C" or better in RDG091 or RDG095 or RDG100 or RDG111 or RDG112 or RDG113 or permission of Instructor).

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ALSO SEE READING (RDG).

CRW - Creative Writing

CRW150 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO CREATIVE WRITING

Introduces the student to elements and techniques of creative writing in a variety of genres; teaches terminology and concepts needed for successful participation in writing workshops; facilitates writing practice and evaluation; offers individual guidance on the student's development as a writer.

Prerequisites: None.

CRW160 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO WRITING POETRY

Prewriting (invention and discovery); writing; analyzing and evaluating (in workshop); and revising to practice manipulating various elements of poetry, critique one's own and the poetry of others, and produce a portfolio of finished, marketable poems. Prerequisites: None. CRW150 recommended but not required.

CRW170 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO WRITING FICTION

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. Prerequisites: None. CRW150 recommended but not required.

CRW190 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO SCREENWRITING

Overview of screenwriting elements; introduction to screenwriting techniques. Prerequisites: None. CRW150 recommended but not required.

CRW200 / 1 CREDIT / 1 PERIOD

READINGS FOR WRITERS

Close analysis and interpretation of selected literary texts designed to strengthen the students' own writing by extending their familiarity with the genre in which they write and their knowledge of selected literary elements. One-on-one meetings between student and instructor. Prerequisites: CRW150, or permission of Instructor. Course Notes: CRW200 may be repeated for a total of six (6) credits.

CRW201 / 1 CREDIT / 1 PERIOD

PORTFOLIO

Close analysis of the creative writing portfolio culminating in selection, revision, editing, and

compiling of the student's own literary work in a portfolio. Students meet individually with instructor to choose, prepare, and compile their work. Prerequisites: (Acceptance into Creative Writing Certificate Program and completion of at least nine (9) credit hours in creative writing (CRW)), or permission of Program Director. Course Notes: CRW201 may be repeated for a total of two (2) credit hours.

CRW270 / 3 CREDITS / 3 PERIODS

INTERMEDIATE FICTION WRITING

Writing original short stories; analysis of works of fiction; concentration on revising students' fiction through intensive workshopping.

Prerequisites: CRW170.

CRW272 / 3 CREDITS / 3 PERIODS

PLANNING AND STRUCTURING THE NOVEL

Focus on planning, structuring, and beginning a novel; prewriting, writing, analysis, evaluation, and revision of novel plans and excerpts. Prerequisites: CRW150 or permission of instructor.

CRW273 / 3 CREDITS / 3 PERIODS

WRITING THE NOVEL

Provides the beginning novelist with structure, support, and guidance vital to sustained writing; focus on establishing goals and using critique sessions with instructor and peers to draft a novel; open- and topic-focused in-class forums, novel writing,

peer and instructor critiques. Prerequisites: CRW272 or permission of Instructor.

CRW274 / 3 CREDITS / 3 PERIODS

REVISING THE NOVEL

Studio course workshop format. Requires a complete novel finished, in manuscript, ready for revision and polishing. Prerequisites: CRW273 or permission of Instructor.

CSC - Computer Science

CSC100 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO COMPUTER SCIENCE (C++)

Concepts of problem solving, structured programming in C++, fundamental algorithms and techniques, and computer system concepts. Social and ethical responsibilities. Intended for majors other than Computer Science. Prerequisites: MAT120, or MAT121, or MAT122.

CSC100AA / 3 CREDITS / 4 PERIODS

INTRODUCTION TO COMPUTER SCIENCE (C++)

Concepts of problem solving, structured programming in C++, fundamental algorithms and techniques, and computer system concepts. Social and ethical responsibilities. Intended for majors other than Computer Science. Prerequisites: MAT120, or MAT121, or MAT122.

CSC110AA / 3 CREDITS / 4 PERIODS

INTRODUCTION TO COMPUTER SCIENCE (JAVA)

Concepts of problem solving, structured and object-oriented programming in Java, fundamental algorithms and techniques and computer system concepts. Social and ethical responsibilities. Intended for Computer Science and Computer Systems Engineering Majors. Prerequisites: MAT120 or MAT121 or MAT122.

CSC110AB/ 4 CREDITS / 4 PERIODS

INTRODUCTION TO COMPUTER SCIENCE (JAVA)

Concepts of problem solving, structured and object-oriented programming in Java, fundamental algorithms and techniques and computer system concepts. Social and ethical responsibilities. Intended for Computer Science and Computer Systems Engineering Majors. Prerequisites: MAT120 or MAT121 or MAT122

CSC205AA/ 3 CREDITS / 4 PERIODS

OBJECT ORIENTED PROGRAMMING AND DATA STRUCTURES

Covers Object-Oriented design and programming; elementary data structures; arrays; lists; stacks; queues; binary trees; recursion; searching and sorting algorithms. Prerequisites: CSC110, or permission of Instructor.

CSC120 / 4 CREDITS / 6 PERIODS

DIGITAL DESIGN FUNDAMENTALS

Number systems, conversion methods, binary and complement arithmetic, Boolean switching algebra and circuit minimization techniques. Analysis and design of combinational logic, flip-flops, simple counters, registers, ROMs, PLDs, synchronous and asynchronous sequential circuits, and state reduction techniques. Building physical circuits. Prerequisites: CSC100, or CSC110, or CSC181, or ELE181, or NET181, or equivalent, or permission of instructor.

CSC180AB / 4 CREDITS / 4 PERIODS

COMPUTER LITERACY

Introduction to computers and technology and their impact on society. Explores technology, current topics in computing, applications and related issues. Students gain fluency in integrating technology to solve problems using computational thinking. Use of application software to create documents, spreadsheets, databases, e- mail and text files, and use of Internet browsers. Prerequisites: None.

CSC181 / 3 CREDITS / 3 PERIODS

APPLIED PROBLEM SOLVING WITH VISUAL BASIC

Introduction to systematic definition of problems, solution formulation, and testing. Visual BASIC programming language applied to problems in mathematics, science, and business. Prerequisites: None.

CSC181AA / 3 CREDITS / 4 PERIODS

APPLIED PROBLEM SOLVING WITH VISUAL BASIC

Introduction to systematic definition of problems, solution formulation, and testing. Visual BASIC programming language applied to problems in mathematics, science, and business. Prerequisites: None.

CSC182AA / 3 CREDITS / 4 PERIODS

PRINCIPLES OF PROGRAMMING WITH C#.NET

Introduction to object-oriented program analysis, design, and development using Visual C#.NET. Includes general concepts, data types, expressions, flow control, methods, classes, arrays, event-driven models, Windows applications, and Web applications. Prerequisites: None.

CSC220 / 4 CREDITS / 5 PERIODS

PROGRAMMING FOR COMPUTER ENGINEERING

Introduction to procedural programming (C/C++) and hardware description language (VHDL). Prerequisites: ((EEE120 or CSC120) and CSC205) or permission of Instructor.

CSC225 / 4 CREDITS / 5 PERIODS

ASSEMBLY LANGUAGE PROGRAMMING ON MOTOROLA MICROPROCESSORS

Assembly language programming including input/output programming and exception/interrupt handling. Register-level computer

organization, I/O interfaces, assemblers, and linkers. Macintosh-based assignments.

Prerequisites: [(CSC100 or CSC110 or CSC200) and CSC/EEE120] or permission of instructor.

CSC230 / 4 CREDITS / 5 PERIODS

COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE

Assembly language programming including input/output (I/O) programming and exception/interrupt handling. Register-level computer organization, I/O interfaces, assemblers, and linkers. Processor organization and design, data path, control, pipelining, and input/output. Memory organization with cache and virtual memory. Prerequisites: [(CSC100 or CSC110) and CSC/EEE120], or permission of instructor.

CSC240 / 3 CREDITS / 5 PERIODS

INTRODUCTION TO DIFFERENT PROGRAMMING LANGUAGES

Introduction to procedural (C/C++), applicative (LISP), and declarative (Prolog) languages. Prerequisites: CSC205 or permission of instructor.

DAH - Dance Humanities

DAH100 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO DANCE

Overview of the field of dance focusing on origins, historical development, and cultural

characteristics of the various styles of dance. Prerequisites: None.

DAH190 / 1 CREDIT / 1 PERIOD

DISCOVERING DANCE CAREERS

An overview of the professional opportunities available in dance and dance related fields. Prerequisites: None.

DAH201 / 3 CREDITS / 3 PERIODS

WORLD DANCE STUDIES

Exploration, analysis, synthesis, and evaluation of the role of dance in various cultures around the world. Prerequisites: None. DAH100 strongly suggested but not required.

DAN - Dance

DAN102AA / 1 CREDIT / 3 PERIODS

HIP HOP I

Theory and practice of Hip Hop dance at the beginning level. Development of movement quality and performance skills. Prerequisites: None. Course Notes: DAN102AA may be repeated for credit.

DAN102AB / 1 CREDIT / 3 PERIODS

HIP HOP II

Theory and practice of Hip Hop dance at the advanced beginning level. Development of movement quality and performance skills. Prerequisites: DAN102AA or permission of

Instructor. Course Notes: DAN102AB may be repeated for credit.

DAN115 / 1 CREDIT / 3 PERIODS

DANCE TRENDS

Theory and practice of current social dance trends. Development of movement quality and performance skills. Prerequisites: None. Course Notes: DAN115 may be repeated for credit.

DAN120AA / 1 CREDIT / 3 PERIODS

WORLD DANCE: AFRICAN DANCE

Theory and practice of African dance.

Development of movement quality and performance skills, individually or in a group setting. May include African, Caribbean or Afro-fusion dance. Prerequisites: None. Course Note: DAN120AA may be repeated for credit.

DAN120AB / 1 CREDIT / 3 PERIODS

WORLD DANCE: FLAMENCO

Theory and practice of Flamenco.

Development of movement quality and performance skills, individually, with a partner or in a group setting. Prerequisites: None.

Course Notes: DAN120AB may be repeated for credit.

DAN120AC / 1 CREDIT / 3 PERIODS

WORLD DANCE: IRISH DANCE

Theory and practice of Irish Dance.

Development of movement quality and performance skills, individually or in a group

setting. Prerequisites: None. Course Notes: DAN120AC may be repeated for credit.

DAN120AD / 1 CREDIT / 3 PERIODS

WORLD DANCE: MEXICAN FOLKLORIC DANCE

Theory and practice of Mexican Folkloric dance. Development of movement quality and performance skills, individually with a partner or in a group setting. Prerequisites: None. Course Notes: DAN120AD may be repeated for credit.

DAN120AE / 1 CREDIT / 3 PERIODS

WORLD DANCE: MIDDLE EASTERN DANCE

Theory and practice of Middle Eastern dance. Development of movement quality and performance skills. Prerequisites: None. Course Notes: DAN120AE may be repeated for credit.

DAN120AF / 1 CREDIT / 3 PERIODS

WORLD DANCE: AFRO-BRAZILIAN DANCE

Theory and practice of Afro-Brazilian dance.

Development of movement quality and performance skills. Prerequisites: None.

Course Notes: DAN120AF may be repeated for credit.

DAN120AG / 1 CREDIT / 3 PERIODS

WORLD DANCE: EAST INDIAN DANCE

Theory and practice of East Indian dance. Development of movement quality and performance skills. Prerequisites: None. Course Notes: DAN120AG may be repeated for credit.

DAN120AH / 1 CREDIT / 3 PERIODS

WORLD DANCE: NATIVE AMERICAN DANCE

Theory and practice of Native American dance. Development of movement quality and performance skills. Prerequisites: None. Course Notes: DAN120AH may be repeated for credit.

DAN120AI / 1 CREDIT / 3 PERIODS

WORLD DANCE: EUROPEAN FOLK DANCE

Theory and practice of European Folk dance. Development of movement quality and performance skills individually or in a group setting. Prerequisites: None. Course Notes: DAN120AI may be repeated for credit.

DAN120AJ / 1 CREDIT / 3 PERIODS

WORLD DANCE: ASIAN DANCE FORMS

Theory and practice of Asian Dance Forms.

Development of movement quality and performance skills. Prerequisites: None.

Course Notes: DAN120AJ may be repeated for credit.

DAN120AK / 1 CREDIT / 3 PERIODS

WORLD DANCE: CAPOEIRA

Theory and practice of Capoeira.

Development of movement quality and

performance skills. Prerequisites: None. Course Notes: DAN120AK may be repeated for credit.

DAN129 / 1 CREDIT / 3 PERIODS

MUSICAL THEATRE DANCE I

Introduction to the theory and practice of musical theatre dance at the beginning level. Development of movement quality and performance skills. Prerequisites: None. Course Notes: DAN129 may be repeated for credit.

DAN131 / 1 CREDIT / 3 PERIODS

BALLET I

Introduction to the theory and practice of ballet at the beginning level. Development of movement quality and performance skills. Prerequisites: None. Course Notes: DAN131 may be repeated for credit.

DAN132 / 1 CREDIT / 3 PERIODS

MODERN DANCE I

Introduction to the theory and practice of modern dance at the beginning level.

Development of movement quality and performance skills. Prerequisites: None.

Course Notes: DAN132 may be repeated for credit.

DAN132PA / .5 CREDITS / 1.5 PERIODS

MODERN DANCE BASIC LEVEL

Dance training for personal skill development and interest. Introduction to the theory and

COURSE DESCRIPTION

practice of modern dance at the basic level.
Prerequisites: None. Prior dance experience suggested but not required. Course Notes:
DAN132PA may be repeated for credit. Course is not intended for dance majors.

DAN133 / 1 CREDIT / 3 PERIODS

JAZZ DANCE I

Introduction to the theory and practice of jazz dance at the beginning level. Development of movement quality and performance skills. Prerequisites: Prerequisites: None. Corequisites: DAN138 for dance majors. Course Notes: DAN133 may be repeated for credit.

DAN134 / 1 CREDIT / 3 PERIODS

BALLET II

Theory and practice of ballet at the advanced beginning level. Development of movement quality and performance skills. Prerequisites: DAN131 or permission of Instructor. Course Notes: DAN134 may be repeated for credit.

DAN135 / 1 CREDIT / 3 PERIODS

MODERN DANCE II

Theory and practice of modern dance at the advanced beginning level. Development of movement quality and performance skills. Prerequisites: DAN132 or permission of Instructor. Course Notes: DAN135 may be repeated for credit.

DAN136 / 1 CREDIT / 3 PERIODS

JAZZ DANCE II

Theory and practice of jazz dance at the advanced beginning level. Development of movement quality and performance skills. Prerequisites: DAN133 or permission of Instructor. Course Notes: DAN136 may be repeated for credit.

DAN138 / 1 CREDIT / 1 PERIOD

DANCE SEMINAR I

Level I scientific evaluation and in-depth discussion of the theory and practice of work done in dance technique class. Prerequisites: None. Corequisites: Any ballet, modern dance, or modern jazz dance technique course.

DAN140 / 1 CREDIT / 3 PERIODS

TAP DANCE I

An introduction to the theory and practice of tap dance. Prerequisites: None. Course Notes: DAN140 may be repeated for credit.

DAN141 / 1 CREDIT / 3 PERIODS

DANCE WORKSHOP

An intensive experience in the process of choreography, performance, and production elements. Prerequisites: None. Course Notes: DAN141 may be repeated for credit.

DAN150 / 1 CREDIT / 3 PERIODS

DANCE PERFORMANCE I

An introduction to the process and practice of dance performance. Prerequisites: None. Course Notes: DAN150 may be repeated for credit.

DAN155 / 1 CREDIT / 3 PERIODS

DANCE PERFORMANCE II

Continued study of the process and practice of dance performance at a level II. Prerequisites: DAN150 or permission of Instructor. Corequisites: Any level of any of the following dance technique courses with a DAN prefix: ballet, modern, jazz, hip hop, tap, social, or world dance. Course Notes: DAN155 may be repeated for credit.

DAN164 / 1 CREDIT / 3 PERIODS

IMPROVISATION

An introduction to and an exploration of basic improvisational dance skills. Prerequisites:
None. Course Notes: DAN164 may be repeated for credit.

DAN210 / 3 CREDITS / 3 PERIODS

DANCE PRODUCTION I

Introduction to the elements of light, sound, and scenery as they relate to the art of dance. Prerequisites: None.

DAN211 / 3 CREDITS / 3 PERIODS

DANCE PRODUCTION II

Introduction to the theory and practice of

makeup and costuming as they relate to dance. Prerequisites: None.

DAN221 / 3 CREDITS / 3 PERIODS

RHYTHMIC AWARENESS I

Exploration of rhythm in dance performance, choreography and pedagogy. Emphasis on the basic understanding of rhythm and cultivating awareness of rhythm in everyday life. Prerequisites: None.

DAN222 / 3 CREDITS / 3 PERIODS

RHYTHMIC AWARENESS II

Study at the intermediate level of rhythm and how it can be applied in dance and choreography. Emphasis on awareness of rhythm in everyday life as well as creative practice in rhythm and movement.

Prerequisites: DAN221 or permission of instructor.

DAN231 / 1 CREDIT / 3 PERIODS

BALLET III

Theory and practice of ballet at the beginning intermediate level. Development of movement quality and performance skills. Prerequisites: DAN134 or permission of Instructor. Course Notes: DAN231 may be repeated for credit.

DAN232 / 1 CREDIT / 3 PERIODS

MODERN DANCE III

Theory and practice of modern dance at the beginning intermediate level. Development

of movement quality and performance skills. Prerequisites: DAN135 or permission of Instructor. Course Notes: DAN232 may be repeated for credit.

DAN232AA / 2 CREDITS / 5 PERIODS

MODERN DANCE III: INTENSIVE

Theory and intensive practice of modern dance at the beginning intermediate level. Development of movement quality and performance skills. Prerequisites: DAN135 or permission of Instructor. Course Note: DAN232AA may be repeated for credit.

DAN233 / 1 CREDIT / 3 PERIODS

JAZZ DANCE III

Theory and practice of jazz dance at the beginning intermediate level. Development of movement quality and performance skills. Prerequisites: DAN136 or permission of Instructor. Course Notes: DAN233 may be repeated for credit.

DAN234 / 1 CREDIT / 3 PERIODS

BALLET IV

Theory and practice of ballet at the intermediate level. Development of movement quality and performance skills. Prerequisites: DAN231 or permission of Instructor. Course Notes: DAN234 may be repeated for credit.

DAN235 / 1 CREDIT / 3 PERIODS

MODERN DANCE IV

Theory and practice of modern dance at the intermediate level. Development of movement quality and performance skills. Prerequisites: DAN232 or permission of Instructor. Course Note: DAN235 may be repeated for credit.

DAN235AA / 2 CREDITS / 5 PERIODS

MODERN DANCE IV: INTENSIVE

Theory and intensive practice of modern dance at the advanced intermediate level. Development of movement quality and performance skills. Prerequisites: DAN232AA or permission of Instructor. Course Notes: DAN235AA may be repeated for credit.

DAN236 / 1 CREDIT / 3 PERIODS

JAZZ DANCE IV

Theory and practice of jazz dance at the intermediate level. Development of movement quality and performance skills. Prerequisites: DAN233 or permission of Instructor. Course Notes: DAN236 may be repeated for credit.

DAN238 / 1 CREDIT / 1 PERIOD

DANCE SEMINAR II

Level II scientific evaluation and in-depth discussion of the theory and practice of work done in dance technique class. Prerequisites: DAN138 or permission of instructor.

Corequisites: Any ballet, modern dance, or modern jazz dance technique course.

DAN264 / 3 CREDITS / 3 PERIODS

CHOREOGRAPHY I

Study of basic dance choreography to include construction of a phrase, structure and form in a composition, and the basic elements of time, space and energy. Prerequisites: None.

DAN265 / 3 CREDITS / 3 PERIODS

CHOREOGRAPHY II

Exploration of choreography at the intermediate level. Experimentation with the various approaches to creative practice as established by 20th and 21st century artists. Prerequisites: DAN264 or permission of Instructor.

DAN280 / 2 CREDITS / 6 PERIODS

DANCE PRACTICUM

A culmination of coursework for the dance major requiring completion of an extended choreographic work from conception to performance. Also requires a final evaluative paper on the successes and challenges encountered throughout the project.

Prerequisites: Permission of instructor.

DAN290AA / 1 CREDIT / 3 PERIODS

DAN290AB / 2 CREDITS / 6 PERIODS

DAN290AC / 3 CREDITS / 9 PERIODS

DANCE CONSERVATORY I

An intensive course focusing on the theory and practice of dance technique including, but not limited to, ballet, modern dance, modern jazz, pilates, yoga and dance performance at the beginning level. Study of repertory and development of movement quality and performance skills. Includes an informal public showing of dance technique and performance skills. Prerequisites: None. Course Notes: DAN290AA may be repeated for a total of three (3) credit hours; DAN290AB may be repeated for a total of six (6) credit hours; DAN290AC may be repeated for a total of nine (9) credit hours.

DAN291AA / 1 CREDIT / 3 PERIODS

DAN291AB / 2 CREDITS / 6 PERIODS

DAN291AC / 3 CREDITS / 9 PERIODS

DANCE CONSERVATORY II

An intensive course focusing on the theory and practice of dance technique including, but not limited to, ballet, modern dance, modern jazz, pilates, yoga and dance performance at the intermediate level. Study of repertory and development of movement quality and performance skills. Includes an informal public showing of dance technique and performance skills. Prerequisites:

(DAN131 and DAN132) or permission of instructor. Course Notes: DAN291AA may be repeated for a total of three (3) credit hours;

DAN291AB may be repeated for a total of six (6) credit hours; DAN291AC may be repeated for a total of nine (9) credit hours.

DAN292AA / 1 CREDIT / 3 PERIODS

DAN292AB / 2 CREDITS / 6 PERIODS

DAN292AC / 3 CREDITS / 9 PERIODS

DANCE CONSERVATORY III

An intensive course focusing on the theory and practice of dance technique including,

but not limited to, ballet, modern dance, modern jazz, pilates, yoga and dance performance at the advanced level. Study of repertory and development of movement quality and performance skills. Includes an informal public showing of dance technique and performance skills. Prerequisites: (DAN134 and DAN135) or permission of instructor. Course Notes: DAN292AA may be repeated for a total of three (3) credit hours; DAN292AB may be repeated for a total of six (6) credit hours; DAN292AC may be repeated for a total of nine (9) credit hours.

ECE - Engineering Science

ECE102 / 2 CREDITS / 4 PERIODS

SUN EGR 1102

ENGINEERING ANALYSIS TOOLS AND TECHNIQUES

Learning culture of engineering, engineering use of computer tools, and computer modeling as applied to engineering analysis and design. Prerequisites: Two years of high school algebra or MAT122 or departmental approval. Corequisites: MAT151 or MAT182 or MAT187.

ECE102AA / 2 CREDITS / 4 PERIODS

SUN EGR 1102

ENGINEERING ANALYSIS TOOLS AND TECHNIQUES

Learning culture of engineering, engineering use of computer tools, and computer modeling as applied to engineering analysis

and design. Prerequisites: Two years of high school algebra or MAT122 or departmental approval. Corequisites: MAT151 or MAT182 or MAT187.

ECE103 / 2 CREDITS / 4 PERIODS

SUN EGR 1102

ENGINEERING PROBLEM SOLVING AND DESIGN

Fundamentals of the design process: engineering modeling, communication and problem-solving skills in a team environment. Emphasis on process-based improvements to the design process. Introduction to engineering as a profession. Prerequisites: (ECE102 or ECE102AA) and (high school physics, or PHY111, or PHY111AA).

ECE103AB / 2 CREDITS / 4 PERIODS

SUN EGR 1102

ENGINEERING PROBLEM SOLVING AND DESIGN

Fundamentals of the design process: engineering modeling, communication and problem-solving skills in a team environment. Emphasis on process-based improvements to the design process. Introduction to engineering as a profession. Prerequisites: (ECE102 or ECE102AA) and (high school physics, or PHY111, or PHY111AA).

ECE105 / 1 CREDIT / 2 PERIODS

MATLAB PROGRAMMING

Use MATLAB to solve engineering problems. An overview of programming, including matrices, structures, strings, functions, control flow, file management, data analysis, graphing capabilities, and mathematical calculations. Prerequisites: [(MAT150 or MAT151 or MAT152) and MAT182] or MAT187 or higher level mathematics course.

ECE111 / 3 CREDITS / 5 PERIODS

BIOENGINEERING SYSTEMS

Introduction to biological concepts and application of engineering to biological and earth systems. Analysis of materials, structures, fluid mechanics, bioelectricity, and dynamics as applied to biological and environmental systems. Prerequisites: None.

ECE211 / 3 CREDITS / 5 PERIODS

ENGINEERING MECHANICS-STATICS

Mathematical treatment of the basic physical principles of statics. Methods of vector algebra and vector calculus. Prerequisites: ECE103, (MAT230 or MAT231), and (PHY115 or PHY121). Corequisites: MAT241.

ECE212 / 3 CREDITS / 5 PERIODS

ENGINEERING MECHANICS-DYNAMICS

Kinematics and kinetics of particles, translating and rotating coordinate systems, rigid body kinematics, dynamics of systems of particles and rigid bodies, and energy and momentum principles. Prerequisites: ECE211 and (MAT240 or MAT241).

ECE214 / 4 CREDITS / 6 PERIODS

ENGINEERING MECHANICS

Foundations of engineering mechanics, including force systems, resultants, equilibrium of particles and rigid bodies, centroids and centers of mass, area and mass moments of inertia, friction, internal forces in structures, kinematics and kinetics of particles, kinematics and kinetics of rigid bodies, energy and momentum principles. Prerequisites: (ECE103 or ECE103AB), (MAT230 or MAT231), and (PHY115 or PHY121). Corequisites: MAT240 or MAT241.

ECE215 / 3 CREDITS / 5 PERIODS

MECHANICS OF MATERIALS

Designed to provide students with a strong fundamental foundation in the mechanics of solids. Includes the concepts of stress and strain applied to the analysis and design of members subjected to axial and torsional loads and members subjected to shear and bending, applications and transformation of plane stress and plane strain, deformation of beams, and elastic buckling of columns. Prerequisites:[ECE214 or (ECE211 and ECE212)] and (MAT262 or MAT276 or MAT277).

ECE216 / 2 CREDITS / 2 PERIODS

COMPUTER-AIDED ENGINEERING

Introduction to engineering graphics, including tolerancing and fasteners, as well as creation and use of engineering drawings.

Prerequisites or Corequisites: ECE214 or (ECE211 and ECE212). Corequisites: ECE216LL.

ECE216LL / 1 CREDITS / 2 PERIODS

COMPUTER-AIDED ENGINEERING LABORATORY

Laboratory experience in support of ECE216. Prerequisites or Corequisites: ECE214 or (ECE211 and ECE212). Corequisites: ECE216.

ECE294 / 3 CREDITS / 3 PERIODS

SPECIAL TOPICS IN ENGINEERING

Exploration and investigation of a focused topic in engineering. Prerequisites: Permission of Instructor, or Department or Division Chair. Course Notes: ECE294 may be repeated for credit.

ECE294AA / 2 CREDITS / 2 PERIODS

SPECIAL TOPICS IN ENGINEERING

Exploration and investigation of a focused topic in engineering. Prerequisites: Permission of Instructor, or Department or Division Chair. Course Notes: ECE294AA may be repeated for credit.

ECE294AB / 1 CREDIT / 1 PERIOD

SPECIAL TOPICS IN ENGINEERING

Exploration and investigation of a focused topic in engineering. Prerequisites: Permission of Instructor, or Department or Division Chair. Course Notes: ECE294AB may be repeated for credit.

ECE294AC / .50 CREDITS/.50 PERIODS

SPECIAL TOPICS IN ENGINEERING

Exploration and investigation of a focused topic in engineering. Prerequisites: Permission of Instructor, or Department or Division Chair. Course Notes: ECE294AC may be repeated for credit.

ECH - Early Childhood Education

ECH128 / 3 CREDITS / 3 PERIODS

EARLY LEARNING: PLAY AND THE ARTS

Examines theory, research and practices relating to play and the creative arts in early childhood. Considers practical constraints and alternative perspectives. Prerequisites: None.

ECH253 / 3 CREDITS / 3 PERIODS

NATIONAL CREDENTIAL PORTFOLIO DEVELOPMENT

Portfolio or resource file development, completion, and presentation. Self-assessment and credentialing planning, professional development, writing, and critical learning included. Prerequisites: Permission of Program Director.

ECN - Economics

ECN211 / 3 CREDITS / 3 PERIODS

SUN ECN 2201

MACROECONOMIC PRINCIPLES

A descriptive analysis of the structure and functioning of the American economy. Emphasis on basic economic institutions and factors that determine national income and employment levels. Consideration given to the macroeconomic topics of national income, unemployment, inflation and monetary and fiscal policies. Prerequisites: None.

ECN212 / 3 CREDITS / 3 PERIODS

SUN FCN 2202

MICROECONOMIC PRINCIPLES

Microeconomic analysis including the theory of consumer choice, price determination, resource allocation and income distribution. Includes non-competitive market structures such as monopoly and oligopoly; and the effects of government regulation. Prerequisites: None.

ECN213 / 3 CREDITS / 3 PERIODS

THE WORLD ECONOMY

An analysis of the economic interdependence among nations, with emphasis on international trade and finance. Consideration given to the role and function of the multinational enterprise. Prerequisites: None.

ECN263 / 3 CREDITS / 3 PERIODS

THE ECONOMICS OF NATURAL RESOURCES, POPULATION AND THE ENVIRONMENT

Applies economic analysis to both the causes and possible remedies of the problems of environmental deterioration and natural resource depletion. Includes discussion of the economic problems of urban communities and the relationship between population and economic growth and the depletion of natural resources and environmental pollution.

Prerequisites: ECN100, or ECN211, or ECN212

EDU - Education

EDU220 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO SERVING ENGLISH LANGUAGE LEARNERS (ELL)

Rationale for and current educational and legal issues for serving 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/Dual Language Immersion (DLI). Includes SEI, ESL, and bilingual/DLI strategies. Prerequisites: None. Course Notes: Approved school-based practicum is required. EDU220 incorporates the 45-clock hour curricular framework for SEI endorsement through the Arizona Department of Education.

EDU221 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO EDUCATION

Overview of the historical, political, economic, social, and philosophical factors that influence education and make it so complex. Opportunity for students to assess their interest and suitability for teaching. Prerequisites: None. Course Note: Requires minimum of 30 hours of field experience in elementary or secondary classroom environment.

EDU222 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO THE EXCEPTIONAL LEARNER

Overview of the exceptional learner with emphasis on factors relating to current practices, identification, characteristics, and educational adaptations. Issues related to mild disabilities, severe disabilities, emotional and behavioral disorders, intellectual disabilities, and students who are gifted. Prerequisites: None. EDU222 requires an approved field experience.

EDU230 / 3 CREDITS / 3 PERIODS

CULTURAL DIVERSITY IN EDUCATION

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 / 3 CREDITS / 3 PERIODS

STRUCTURED ENGLISH IMMERSION, ENGLISH AS A SECOND LANGUAGE, AND BILINGUAL TEACHING METHODS

Methods of planning, developing, and analyzing lesson plans in all content areas using English Language Learners (ELL) proficiency 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 state academic standards. Covers multiple assessment techniques, tracking of student progress using the state mandated English language proficiency assessment, and use of assessment results for placement and accommodation. Prerequisites: (EDU220 or EPD220) or permission of Department or Division. Course Notes: Approved school-based practicum required. EDU233 incorporates curricular framework for the 45-clock hour requirement for SEI endorsement through the Arizona Department of Education.

EDU236 / 3 CREDITS / 3 PERIODS

CLASSROOM RELATIONSHIPS

Analysis of K-12 classroom interactions, classroom environment, and classroom

management skills from a teacher's point of view. Focus on classroom as a multidimensional environment in which principles of classroom design, communication, management, and resources determine effectiveness. Prerequisites: None. EDU221 suggested but not required. Course Note: Requires a 20-hour field experience in a K-12 classroom.

EDU250 / 3 CREDITS / 3 PERIODS

OVERVIEW OF THE COMMUNITY COLLEGES

The history, functions, organization and current issues in the community/junior college with emphasis on the Arizona community colleges. Prerequisites: None.

EDU291 / 3 CREDITS / 3 PERIODS

CHILDREN'S LITERATURE

Review of folk and modern literature from a variety of world cultures, including application of literary criteria to folk and modern literature for children. Prerequisites: None.

EED - Early Education

EED205 / 3 CREDITS / 3 PERIODS

THE DEVELOPING CHILD: PRENATAL TO AGE EIGHT

Examination of process of physical, social, emotional, cognitive, language, and literacy development of typical and atypical young children; prenatal through age eight.

Includes practical application and fieldwork experience. Prerequisites: None.

EED212 / 3 CREDITS / 3 PERIODS

GUIDANCE, MANAGEMENT AND THE ENVIRONMENT

Principles for guiding young children in early care and education environments.

Exploration of guidance, management, and how the environment impacts the lives of young children. Includes observation of classrooms of children ages birth to age eight. Prerequisites: None.

EED215 / 3 CREDITS / 3 PERIODS

EARLY LEARNING: HEALTH, SAFETY, NUTRITION AND FITNESS

Consideration of public health issues and safety procedures within early childhood settings, serving young children birth to age eight. Overview of nutritional needs and issues of physical fitness and well-being in young children. Includes field experiences. Prerequisites: None.

EED220 / 3 CREDITS / 3 PERIODS

CHILD, FAMILY, COMMUNITY AND CULTURE

Examines family, community and cultural influences on development of the young child (birth to age eight). Considers trends and threats to attachment, relationships and cultural identity. Includes social and emotional experiences and their impact on the developing brain. Prerequisites: None.

EED261 / 1 CREDIT / 1 PERIOD

EARLY CHILDHOOD PRESCHOOL INTERNSHIP

Work experience with preschoolers in early care and education settings. 80 hours of designated work per credit. Prerequisites: Permission of Department or Division. Course Notes: EED261 may be repeated for a total of six (6) credit hours.

EEE - Electrical Engineering

EEE120 / 4 CREDITS / 6 PERIODS

DIGITAL DESIGN FUNDAMENTALS

Number systems, conversion methods, binary and complement arithmetic, Boolean switching algebra and circuit minimization techniques. Analysis and design of combinational logic, flip-flops, simple counters, registers, ROMs, PLDs, synchronous and asynchronous sequential circuits, and state reduction techniques. Building physical circuits. Prerequisites: CSC100, or CSC110 or CSC181, or ELE181, or NET181, or equivalent, or permission of instructor.

EEE202 / 5 CREDITS / 7 PERIODS

CIRCUITS AND DEVICES

Introduction to circuits and devices.

Component models, transient analysis, steady state analysis, Laplace transform, and active and passive filter networks. Prerequisites: ECE103 or ECE103AB. Corequisites: (MAT276 or MAT277) and (PHY116 or PHY131).

EEE220 / 4 CREDITS / 5 PERIODS

PROGRAMMING FOR COMPUTER ENGINEERING

Introduction to procedural programming (C/C++) and hardware description language (VHDL). Prerequisites: ((EEE120 or CSC120) and CSC205) or permission of Instructor.

EEE230 / 4 CREDITS / 5 PERIODS

COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE

Assembly language programming including input/output (I/O) programming and exception/interrupt handling. Register-level computer organization, I/O interfaces, assemblers, and linkers. Processor organization and design, data path, control, pipelining, and input/output. Memory organization with cache and virtual memory. Prerequisites: [(CSC100 or CSC110) and CSC/EEE120], or permission of instructor.

ELE - Electronics

ELE111 / 4 CREDITS / 6 PERIODS

CIRCUIT ANALYSIS I

Direct current (DC) and Alternating current (AC) electric circuits. Ohm's law, Kirchoff's laws, series, parallel and series-parallel circuits, fundamentals of inductance and capacitance, and the transient behavior of circuits containing resistance and capacitance or resistance and inductance. Prerequisites: None. Corequisites: ELE105 or MAT120 or MAT121 or MAT122, or equivalent.

ELT - Electronics Technology

ELT100 / 3 CREDITS / 3 PERIODS

SURVEY OF ELECTRONICS

An introduction to the field of electronics for those who may not intend to specialize in electronics. Essentially nonmathematical in nature; includes familiarization with a wide range of electronic components. Application to electronic systems, such as radio transmitters and receivers - both AM (amplitude modulation) and FM (frequency modulation), television transmitters and receivers, logic control, and computers. Application also to automotive electronics. Prerequisites: None.

EMT - Emergency Medical Technology

EMT101 / .5 CREDITS /.45 PERIODS

BASIC LIFE SUPPORT/ CARDIOPULMONARY RESUSCITATION (CPR) FOR HEALTH CARE PROVIDERS

Designed to provide the allied healthcare provider with the knowledge and skills to perform Basic Life Support (BLS) according to current guidelines for emergency cardiovascular care (ECC). Prerequisites: None. Course Notes: EMT101 may be repeated for credit.

EMT104 / 9 CREDITS / 11.4 PERIODS

EMERGENCY MEDICAL TECHNOLOGY

Techniques of Techniques of emergency medical care in accordance with national and state curriculum. Study of the human body, patient assessment, treatment of medically or traumatically compromised patients, special hazards, and medical operations, IV monitoring, patient-assisted medication administration, automated external defibrillators (AEDs), and bloodglucose monitoring. Prerequisites: EMT101 or a current validation in Basic Life Support (BLS) Health Care Provider/Professional Rescuer and (appropriate score on Reading placement test to demonstrate minimum tenth grade level reading or completion of an Associate's degree or higher from an accredited institution). Course Notes: Students are required to complete additional hours in a competency-based clinical, vehicular, and/ or scenario based experience. This may be completed through EMT104AB or program director-approved rotation. Students must meet National Registry of EMTs requirements for certification. Additional information available at nremt.org. EMT/FSC104 may be repeated for credit.

EMT104AB / .5 CREDITS / .5 PERIODS

APPLIED PRACTICAL STUDIES FOR EMERGENCY MEDICAL TECHNOLOGY

Simulation of actual emergency responses,

with practical application of techniques and skills covered in EMT curricula. Scenario based learning applied to the techniques of emergency medical care in accordance with national and state curriculum. Practical application of anatomy, physiology, patient assessment, and treatment of medically or traumatically compromised patients, special hazards and medical operations. Also includes patient-assisted medication administration, semi-automatic external defibrillator and blood glucose monitoring. Students function in outside, scenario based environment. Prerequisites: None. Corequisites: EMT/ FSC104, or EMT200, or (EMT272AA, EMT272AB, and EMT272LL), or EMT273, or certified EMT Basic, IEMT, or Paramedic in the State of Arizona, or permission of Instructor. Course Notes: EMT/FSC104AB may be repeated for credit.

EMT200 / 2 CREDITS /2.7 PERIODS

REFRESHER COURSE FOR CERTIFIED EMERGENCY MEDICAL TECHNICIANS

Designed to meet National and Arizona
Department of Health Services (A-DHS)
recertification for EMTs. Enhances the
knowledge base of the Emergency Medical
Technician (EMT) and reinforces basic
skills competencies. Prerequisites: Current
validation in Basic Life Support (BLS)
Health Care Provider/Professional Rescuer
or permission of Instructor. Course Notes:
EMT200 may be repeated for credit.

ENG - English

ENG081 / 3 CREDITS / 3 PERIODS

PREPARATORY ACADEMIC WRITING II

Emphasizes preparation for college-level composition and related reading tasks with a focus on critical writing, reading, and thinking skills and processes. Prerequisites: Appropriate writing placement test score, or a grade of "C" or better in ENG071 or ESL077, or permission of Department or Division.

ENG091 / 3 CREDITS / 3 PERIODS

PREPARATORY ACADEMIC WRITING III

Emphasizes preparation for first year composition with a focus on critical writing, reading, and thinking skills and processes at an increased level of academic complexity. Prerequisites: Appropriate writing placement test score, or a grade of "C" or better in ENG081 or ESL087, or permission of Department or Division.

ENG101 / 3 CREDITS / 3 PERIODS

SUN ENG 1101

FIRST-YEAR COMPOSITION

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 writing

placement test score, or a grade of C or better in ENG091 or ESL097.

ENG102 / 3 CREDITS / 3 PERIODS

SUN ENG 1102

FIRST-YEAR COMPOSITION

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 ENG101.

ENG107 / 3 CREDITS / 3 PERIODS

FIRST-YEAR COMPOSITION FOR ESL

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 collegelevel writing strategies through four or more writing projects comprising at least 3,000 words in total. Prerequisites: Appropriate writing placement test score, or a grade of C or better in ENG091 or ESL097.

ENG108 / 3 CREDITS / 3 PERIODS

FIRST-YEAR COMPOSITION FOR ESL

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.

ENG111 / 3 CREDITS / 3 PERIODS

TECHNICAL WRITING

Covers analyzing, planning, organizing, researching, and writing correspondence, reports, and presentations for specific work-related audiences. Includes integrating data and graphics into work-related documents and presentations. Prerequisites: ENG101 with a grade of "C", or better, or permission of instructor.

ENG200 / 3 CREDITS / 3 PERIODS

READING AND WRITING ABOUT LITERATURE

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

ENG216 / 3 CREDITS / 3 PERIODS

PERSUASIVE WRITING ON PUBLIC ISSUES

Advanced course in techniques of analyzing and writing persuasive arguments addressing topics of current public interest. Papers research based. Prerequisites: ENG102.

ENG217 / 3 CREDITS / 3 PERIODS

PERSONAL AND EXPLORATORY WRITING

Using writing to explore one's self and the world one lives in; emphasis on journal writing as a source and inspiration for public writing. Prerequisites: ENG101 or ENG107 or equivalent.

ENG270 / 3 CREDITS / 3 PERIODS

WORKPLACE WRITING

Emphasizes rhetoric and composition with a focus on adapting writing to meet the needs of very specific workplace objectives and audiences. Uses primary and secondary research practices to investigate a variety of workplace discourse communities.

Prerequisites: Grade of C or better in ENG102 or ENG108. Course Notes: Develop advanced college-level writing strategies through three or more writing projects comprising at least 4,000 words in total.

ENH - English Humanities

ENH110 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO LITERATURE

Introduction to international literature through various forms of literary expression; e.g., poetry, drama, essay, biography, autobiography, short story, and novel. Provides a global overview of literature

with special emphasis on diverse cultural contributions of women, African Americans, Asian Americans, Hispanic Americans, and Native Americans. Prerequisites: None.

ENH114 / 3 CREDITS / 3 PERIODS

AFRICAN-AMERICAN LITERATURE

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.

ENH206 / 3 CREDITS / 3 PERIODS

NATURE AND ENVIRONMENTAL LITERATURE

Investigates major themes in nature and environmental writing. Explores relationship between humanity and the environment as expressed through fiction, non-fiction, and poetry. Examines how literature drives attitudes and policies. Prerequisites: None.

ENH221 / 3 CREDITS / 3 PERIODS

SURVEY OF ENGLISH LITERATURE BEFORE 1800

Emphasizes the social and political backgrounds as well as the form and content of English literature from Anglo-Saxon times to the end of the eighteenth century. Prerequisites: (ENG101 or ENG107) or equivalent.

ENH222 / 3 CREDITS / 3 PERIODS

SURVEY OF ENGLISH LITERATURE AFTER 1800

Emphasizes the social and political backgrounds as well as the form and content of English literature in the nineteenth and twentieth centuries. Prerequisites: (ENG101 or ENG107) or equivalent.

ENH241 / 3 CREDITS / 3 PERIODS

AMERICAN LITERATURE BEFORE 1860

Includes literature written prior to 1860 in the United States. Prerequisites: None.

ENH242 / 3 CREDITS / 3 PERIODS

AMERICAN LITERATURE AFTER 1860

Includes literature written after 1860 in the United States. Prerequisites: None.

ENH251 / 3 CREDITS / 3 PERIODS

MYTHOLOGY

Deals with the myths and legends of civilizations with the greatest influence upon the development of the literature and culture of the English speaking people, and compares those myths with myths from other cultures. Prerequisites: None.

ENH253 / 3 CREDITS / 3 PERIODS

CONTEMPORARY GLOBAL LITERATURE AND FILM

Characteristics of literary and cinematic mediums. Challenges of adapting literature to film. Global examination of historical,

religious, socio-economic, political, and colonial/post colonial themes depicted in Western and non-Western literature and film (e. g., Africa, Asia, and Latin America) outside the United States. Use of narrative in each medium and how it translates various global/international perspectives and cultural assumptions. Specific genres present in literature and film. Cultural metaphors and symbols used in literature and film. Prerequisites: ENG101.

ENH254 / 3 CREDITS / 3 PERIODS

LITERATURE AND FILM

Presents works of literature and their film versions and analyzes distinguishing techniques of each medium. Prerequisites: ENG101, or ENG107, or equivalent.

ENH255 / 3 CREDITS / 3 PERIODS

CONTEMPORARY U.S. LITERATURE AND FILM

Strengths and weaknesses of literature and film. Challenges of adapting literature to film. Addressing racial, ethnic, gender, class and religious differences between cultures and mediums. Use of narrative in each medium and how it translates various cultural values and assumptions. Specific genres present in literature and film. Cultural metaphors and symbols used in literature and film.

Prerequisites: ENG101.

ENH259 / 3 CREDITS / 3 PERIODS

AMERICAN INDIAN LITERATURE

Contemporary American Indian forms of literary expression. Selected oral traditions of American Indians. Trends and movements within American Indian literary history. Prerequisites: None.

ENH260 / 3 CREDITS / 3 PERIODS

LITERATURE OF THE SOUTHWEST

Investigates major themes in Southwestern
American literature including the Western
myth, minority roles in the region's literature,
control of nature versus primacy of nature,
and growth. Both prose and poetry are
examined with an emphasis on contemporary
Southwestern writing. Prerequisites: None.

ENH284 / 3 CREDITS / 3 PERIODS

19TH CENTURY WOMEN WRITERS

Investigates major themes in literature by women writing in the 19th century including the nature of women's lives in the family, in work situations, and in society. Poetry, prose, essays and drama are examined with an emphasis on common themes. Prerequisites: None.

ENH285 / 3 CREDITS / 3 PERIODS

CONTEMPORARY WOMEN WRITERS

Explores twentieth century literature (short stories, essays, plays, and poetry) written by women and about women. Focus on themes relevant to women's lives regardless of age,

creed, or ethnic background. Prerequisites: None.

ENH291 / 3 CREDITS / 3 PERIODS

CHILDREN'S LITERATURE

Review of folk and modern literature from a variety of world cultures, including application of literary criteria to folk and modern literature for children. Prerequisites: None.

ENH295 / 3 CREDITS / 3 PERIODS

BANNED BOOKS AND CENSORSHIP

History, motivations, and effects of censorship in a democratic society. Censorship and book banning as a method of silencing diverse voices. Critical analysis of banned or challenged literature for children and adults. Prerequisites: None.

ESL - English as a Second Language

ESL001BA / 2 CREDITS / 2 PERIODS

BASIC ESL I: PERSONAL HEALTH & SAFETY

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.

ESL001BB / 2 CREDITS / 2 PERIODS

BASIC ESL I: SERVICES & EMPLOYMENT

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.

ESL001BC / 2 CREDITS / 2 PERIODS

BASIC ESL I: SHOPPING & EVERYDAY LIFE

Listening, speaking, reading and writing in English at a basic level. Focus on survival skills related to shopping and everyday life when living in the United States. Introduction to elementary grammatical patterns.

Prerequisites: ESL001BB or permission of instructor.

ESL010 / 3 CREDITS / 3 PERIODS

ENGLISH AS A SECOND LANGUAGE I: GRAMMAR

First level of English as a Second Language (ESL). Emphasis on basic conversational skills, pronunciation, vocabulary building and grammar. Some reading and sentence level writing. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL placement test score.

ESL011 / 3 CREDITS / 3 PERIODS

ENGLISH AS A SECOND LANGUAGE I: LISTENING AND SPEAKING

Emphasis on listening and speaking skills involving survival skills. Asking and answering questions related to work, shopping, and personal safety. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL placement test score or ESL002.

ESL013 / 1 CREDIT / 1 PERIOD

VOCABULARY FOR ESLI

Emphasis on the acquisition of basic English vocabulary including identifying and pronouncing words related to people, medical/dental care, occupations and other activities. Prerequisites: Appropriate ESL placement test score or permission of Instructor. Course Notes: ESL013 may be repeated for a maximum of two (2) credits.

ESL016 / 3 CREDITS / 3 PERIODS

READING ENGLISH AS A SECOND LANGUAGE I

Designed for students who are learning English as a second language. Skills needed to become proficient readers in English. Sound symbol relationships of the English alphabet. Essential vocabulary for daily communication both in isolation and context. Development of reading comprehension skills. Prerequisites: Appropriate ESL placement test score.

ESL020 / 3 CREDITS / 3 PERIODS

ENGLISH AS A SECOND LANGUAGE II: GRAMMAR

Second level of English as a Second Language (ESL). Continued emphasis on conversational skills, pronunciation, vocabulary building and grammar with some reading and sentence level writing. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL placement test score or a grade of P or C or better in ESL010.

ESL021 / 3 CREDITS / 3 PERIODS

ENGLISH AS A SECOND LANGUAGE II - LISTENING AND SPEAKING

Emphasis on listening and speaking skills involving social exchange. Asking and answering questions, using tag questions. Practice with question and answer patterns. Polite questions and responses. Prerequisites: Appropriate ESL placement test score or ESL010 or ESL011 or ESL012 or RDG/ESL016. Course Notes: ESL021 may be repeated for a maximum of six (6) credits.

ESL022 / 3 CREDITS / 3 PERIODS

ESL II-WRITING WITH ORAL PRACTICE

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: Appropriate ESL course placement score, or a grade of C or better in ESL012, or permission of instructor.

ESL026 / 3 CREDITS / 3 PERIODS

READING ENGLISH AS A SECOND LANGUAGE II

Designed for students who are learning English as a second language. Continued development of vocabulary and reading comprehension skills. Prerequisites:

Appropriate ESL placement test score, or grade of "C" or better in ESL/RDG016, or permission of Instructor.

ESL030 / 3 CREDITS / 3 PERIODS

ENGLISH AS A SECOND LANGUAGE III: GRAMMAR

Third-level of English as a Second Language (ESL). Emphasis on sentence structure and paragraph building. Extensive grammar study and writing practice. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL placement test score or a grade of P or C or better in ESL020.

Course Notes: ESL030 may be repeated for a total of six (6) credit hours. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog.

ESL031 / 3 CREDITS / 3 PERIODS

ENGLISH AS A SECOND LANGUAGE III - LISTENING AND SPEAKING

Emphasis on listening and speaking skills related primarily to academic environment. Asking questions, working in small groups,

using college resources, informal oral presentation. Prerequisites: Appropriate ESL placement test score or ESL020 or ESL021 or ESL022 or RDG/ESL026. Course Notes: ESL031 may be repeated for a total of six (6) credit hours.

ESL032 / 3 CREDITS / 3 PERIODS

ESL III-WRITING WITH ORAL PRACTICE

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.

ESL036 / 3 CREDITS / 3 PERIODS

READING ENGLISH AS A SECOND LANGUAGE III

Designed for students who are learning English as a second language. Instruction for more advanced vocabulary and reading comprehension skills. Prerequisites:

Appropriate ESL placement test score, or grade of "C" or better in ESL/RDG026, or permission of Instructor.

ESL040 / 3 CREDITS / 3 PERIODS

ENGLISH AS A SECOND LANGUAGE IV: GRAMMAR

Fourth-level of English as a Second Language (ESL). Continued emphasis on sentence structure and paragraph building. Extensive grammar study and writing practice. Credit

(P) or no credit (Z). Standard grading available according to procedures outlined in catalog. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL placement test score or a grade of P or C or better in ESL030.

Course Notes: ESL040 may be repeated for a total of six (6) credit hours. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog.

ESL041 / 3 CREDITS / 3 PERIODS

ENGLISH AS A SECOND LANGUAGE IV: LISTENING AND SPEAKING

Emphasis on academic skills. Listening to lectures, notetaking, peer interaction, accessing and using media resources, formal oral presentations. Prerequisites: Appropriate ESL placement test score or ESL030 or ESL031 or ESL032 or RDG/ ESL036. Course Notes: ESL041 may be repeated for a maximum of six (6) credits.

ESL042 / 3 CREDITS / 3 PERIODS

ESL IV-WRITING WITH ORAL PRACTICE

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.

ESL046 / 3 CREDITS / 3 PERIODS

READING ENGLISH AS A SECOND LANGUAGE IV

Developed for students of English as a second language. Development of advanced vocabulary, comprehension skills, and culture awareness. Prerequisites: Appropriate ESL placement test score, or grade of "C" or better in ESL/RDG036, or permission of Instructor.

ESL050 / 3 CREDITS / 3 PERIODS

REVIEW GRAMMAR FOR ESL

Review of grammatical concepts for ESL (English as a Second Language) students who have some previous experience in reading and writing English. Appropriate for students who want to practice sentence skills in English. May be repeated for a total of six (6) credits. Prerequisites: Appropriate ESL course placement score, or a grade of "C" or better in ESL040, or permission of instructor.

ESL051 / 3 CREDITS / 3 PERIODS

PRONUNCIATION IMPROVEMENT FOR ESL SPEAKERS

Individualized pronunciation practice and drills for English as a Second Language (ESL) speakers. Prerequisites: Appropriate ESL course placement score, or a grade of C or better in (ESL020 or ESL021 or ESL022 or RDG/ESL026), or permission of instructor. Course Notes: ESL051 may be repeated for a total of six (6) credits.

ESL071 / 3 CREDITS / 3 PERIODS

ADVANCED PRONUNCIATION AND ORAL READING FOR ESL

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.

ESL087 / 3 CREDITS / 3 PERIODS

PREPARATORY ACADEMIC WRITING II FOR ESL

Emphasizes preparation for college-level composition and related reading tasks with a focus on critical writing, reading, and thinking skills and processes. Prerequisites: Appropriate writing placement test score, or grade of C or better in ESL077 or ENG071, or permission of Department or Division.

EUT - Electric Utility Technology

EUT110 / 2 CREDITS / 2 PERIODS

LINE WORK I

Overview of line work industry including its history, technological developments and current practices. Examines industry equipment and tools. Focuses on safety practices and procedures used in utility line work industry. Prerequisites: None.

EUT112 / 4 CREDITS / 4 PERIODS

BASIC ELECTRICITY: AC AND DC

Reviews the basic principles of Alternating Current (AC) and Direct Current (DC) electricity. Examines the structure and function of AC and DC circuits including series, parallel and series-parallel circuits. Includes an overview of electric systems and their applications in the utility industry . Prerequisites: None. Corequisites: EUT110 and EUT115.

EUT115 / 4 CREDITS / 12 PERIODS

FIELD TRAINING I

Practice in the basics of climbing and working on utility poles. Focuses on apparatus and equipment, using ropes and rigging equipment, installations of single and double cross arms, pole framing and setting, use of hand line and building single-phase lines. Prerequisites: None. Corequisites: EUT110, EUT112.

EUT210 / 2 CREDITS / 2 PERIODS

LINE WORK II

Overview of line work industry including its history, technological developments and current practices. Examines industry equipment and tools. Focuses on hot sticking, tag out and lock out procedures with emphasis on industry safety practices and procedures. Prerequisites: EUT110.

EUT211 / 4 CREDITS / 4 PERIODS

ELECTRICAL APPARATUS

Overview of transformers and how they operate. Reviews single and three-phase theory. Focuses on construction and hookup of single-phase, three-phase, open Y and Delta transformer connections. Presents an overview of surge arresters, including applications and installation. Prerequisites: EUT110, EUT112 and EUT115. Corequisites: EUT215.

EUT215 / 4 CREDITS / 12 PERIODS

FIELD TRAINING II

Practice in the installation of electrical lines including transformers, reclosers, and service loops. Teaches rubber gloving, hot sticking techniques, and trenching of underground lines. Practice in the safe set-up and operation of equipment used in the line industry with a focus on the development of entry-level skills as drivers and operators. Includes procedures and practice in pole-top and bucket-truck rescues. Prerequisites: EUT110, EUT112, and EUT115. Corequisites: EUT211.

EXS - Exercise Science

EXS101 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO EXERCISE SCIENCE

Introductory course that will provide the student with a general overview of the disciplines, professions and research areas

associated with the field of Exercise Science. Basic history, philosophy, theory, educational pathways and career options will be examined. Prerequisites: None.

EXS112 / 3 CREDITS / 3 PERIODS

PROFESSIONAL APPLICATIONS OF FITNESS PRINCIPLES

Basic principles of fitness for the prospective fitness professional and characteristics of quality communication and fitness leadership. Topics include behavior modification, enhancing motivation components of fitness, fitness assessment, risk stratification, exercise programming and modifications.

Prerequisites: None.

EXS125 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO EXERCISE PHYSIOLOGY

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. BIO160 recommended but not required.

EXS130 / 3 CREDITS / 3 PERIODS

STRENGTH FITNESS-PHYSIOLOGICAL PRINCIPLES AND TRAINING TECHNIQUES

Principles and techniques of strength training including strength physiology, performance factors, training recommendations, exercise

techniques, and program design and management. Prerequisites: None.

EXS132 / 3 CREDITS / 3 PERIODS

CARDIOVASCULAR FITNESS: PHYSIOLOGICAL PRINCIPLES AND TRAINING TECHNIQUES

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.

EXS145 / 3 CREDITS /4.5 PERIODS

GUIDELINES FOR EXERCISE TESTING AND PRESCRIPTION

Follows the current ACSM guidelines for health appraisal, risk assessment, safety of exercise, exercise testing, and exercise prescription. Prerequisites: None.

EXS214 / 2 CREDITS / 3 PERIODS

INSTRUCTIONAL COMPETENCY: FLEXIBILITY AND MIND- BODY EXERCISES

Fundamental methods of instructing and leading fitness activities including flexibility activities. Core competencies identified by professional certification agencies. Prerequisites: None.

EXS215 / 3 CREDITS / 3 PERIODS

FITNESS FOR LIFE

Lifetime health and skill-related components

of fitness to achieve total wellness. Topics include health and skill- related components of fitness, guidelines for health and fitness assessment, exercise safety and precautions, nutrition, weight control, cardiovascular risk reduction, psychology of fitness and wellness, consumerism, and overall self-management of personal health and lifestyle habits to achieve the highest potential for well-being. Prerequisites: None.

EXS216 / 2 CREDITS / 3 PERIODS

INSTRUCTIONAL COMPETENCY: MUSCULAR STRENGTH AND CONDITIONING

Fundamental methods of instructing and leading fitness activities including strength and conditioning activities. Core competencies identified by professional certification agencies. Prerequisites: None.

EXS218 / 2 CREDITS / 3 PERIODS

INSTRUCTIONAL COMPETENCY: CARDIORESPIRATORY EXERCISES AND ACTIVITIES

Fundamental methods of instructing and leading fitness activities including cardiorespiratory exercises and activities.

Core competencies identified by professional certification agencies. Prerequisites: None.

EXS230 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO RESEARCH METHODS IN HEALTH AND EXERCISE SCIENCE

Introduction to the general nature of research

with specific application to accessing, reading, evaluating, and reporting research in health and exercise science. Introduce students to select, data-based literature in order to engender an appreciation for and ability to critically evaluate health/exercise science research. Prerequisites: (ENG101 or ENG107) and MAT082 or permission of Instructor.

EXS239 / 3 CREDITS /5.4 PERIODS

PRACTICAL APPLICATIONS OF PERSONAL TRAINING SKILLS AND TECHNIQUES INTERNSHIP

Work experience in a fitness or health related facility. Eighty (80) hours of designated work per credit. Prerequisites: Completion of nine (9) credits of EXS courses required for the (AAS in Exercise Science and Personal Training, or CCL in Personal Training Specialist, or CCL in Personal Trainer), current CPR card, and permission of Department or Division. Course Notes: CPR certification must be current through the duration of the internship. EXS239 may be repeated for a maximum of six (6) credits.

EXS285 / 3 CREDITS / 3 PERIODS

EXERCISE PROGRAM DESIGN AND INSTRUCTION

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

For the most current information regarding course descriptions, log on to www.maricopa.edu/academic/ccta.

populations with special physical/medical needs. Designing exercise programs in an internship setting. Prerequisites: EXS145 or permission of instructor.

EXS290 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO EVIDENCE-BASED PRACTICE

Introduction to best practices in the acquisition, analysis, synthesis, and potential application of research in the discipline of exercise science. Specific emphasis on the application of research-based evidence for applied problem solving in exercise science. Prerequisites: EXS101 and (ENG101 or ENG107), or permission of Instructor.

FON - Food and Nutrition

FON100 / 3 CREDITS / 3 PERIODS

INTRODUCTORY NUTRITION

Introduction to the science of food and human nutrition. Current sustainable dietary recommendations and applications for maximizing well-being and minimizing risk of chronic disease throughout the life cycle. An overview of the nutrients, emphasizing the importance of energy and fluid balance, and optimal functioning of the digestive system. Understanding factors that influence food intake in different cultures. Methods for evaluating credibility of nutrition claims, a focus on modern food safety and technology

practices, and a worldview of nutrition are included. Emphasis is on personal dietary behavior change for a holistic life of wellness. Prerequisites: None.

FON104 / 1 CREDIT / 1 PERIOD

CERTIFICATION IN FOOD SERVICE SAFETY AND SANITATION

Preparation for and certification in a national food sanitation and safety program. Emphasis on food from purchasing, receiving, and storing to preparation, holding, and serving. Focuses on safe and sanitary food service facilities and equipment, employee habits and personal hygiene, and role of management in safety and sanitation. Includes time-temperature principles, foodborne illnesses, pest control, accident prevention, standards for cleaning and sanitizing, and regional regulations and standards. Prerequisites:

FON125 / 1 CREDIT / 1 PERIOD

INTRODUCTION TO PROFESSIONS IN FOOD, NUTRITION, AND DIETETICS

Overview and discussion of career opportunities in the fields of food, nutrition, and dietetics. Includes information about history, ethics, standards of practice, communication and counseling skills.

Emphasis on how to become a Registered Dietitian Nutritionist or a Dietetic Technician Registered. Prerequisites: None.

FON142AB / 3 CREDITS / 5 PERIODS

APPLIED FOOD PRINCIPLES

Exploration and applications of scientific principles involved in food preparation; experiences with basic cooking methods; emphasis on the rationale of cooking techniques. Prerequisites: None.

FON143 / 3 CREDITS / 3 PERIODS

FOOD AND CULTURE

Understanding diet in the context of culture. Historical, religious, and socio-cultural influences on the development of cuisine, meal patterns, eating customs, cooking methods, and nutritional status of various ethnic groups. Traditional and contemporary food habits. Health and social impact of changes in diet. Preparation and serving of foods from many cultures. Prerequisites: None.

FON207 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO NUTRITION SERVICES MANAGEMENT

Principles, knowledge, and techniques required for effective nutrition services management. Includes nutrition service issues in relation to health care trends, leadership skills, management theories and styles, food service manager responsibilities, and laws which pertain to nutrition service operations. Prerequisites: MAT092 or equivalent, or satisfactory score on district placement exam.

FON225 / 3 CREDITS / 3 PERIODS

RESEARCH IN COMPLEMENTARY AND ALTERNATIVE NUTRITION THERAPIES

Introduction to basic research methods and statistics as applied to complementary and alternative nutrition therapies. Emphasis on the analysis and interpretation of health-related research. Prerequisites: MAT092 or equivalent, or satisfactory score on district placement exam.

FON241 / 3 CREDITS / 3 PERIODS

PRINCIPLES OF HUMAN NUTRITION

Scientific principles of human nutrition.
Emphasis on scientific literacy and the study of nutrients for disease prevention. Includes micro and macro nutrients, human nutrient metabolism and nutrition's role in the health of the human body throughout the life cycle. Addresses nutrition principles for prevention of nutrition-related health conditions.

Prerequisites: None

FON241LL / 1 CREDIT / 3 PERIODS

PRINCIPLES OF HUMAN NUTRITION LABORATORY

Self-evaluative laboratory experience to complement FON241, Principles of Human Nutrition using anthropometric, biochemical, and dietary analysis. Includes the use of qualitative and quantitative methodology to determine nutritional status and evaluate methodological applications. Prerequisites or Corequisites: FON241.

FON242 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO MEDICAL NUTRITION THERAPY

Introduction to fundamental principles of medical nutrition therapy. Emphasis on development and analysis of diets that fit an individual's personal and therapeutic needs. Includes strategies to promote dietary adherence and the development of educational programs for a diverse adult population. Prerequisites: FON241.

FON244AA / 2 CREDITS / 2 PERIODS

PRACTICUM I: FOOD SERVICE MANAGEMENT LECTURE

Classroom preparation and training, under the instruction and supervision of a registered dietitian. Understanding of principles, knowledge, and skills required for the delivery of medical nutrition therapy. Comprehension of nutritional screening, assessment, monitoring, and evaluation for common and complex medical conditions, medical documentation, patient interviewing and counseling, and education in health promotion and disease prevention. Competencies in the classroom met prior to their application in supervised practice settings during the practicum lab (FON245AB). Prerequisites: FON125, FON242, HCE103 or equivalent, and MAT092 or equivalent, or satisfactory score on district placement exam. Corequisite: FON245AB.

FON244AB / 2.5 CREDITS / 10 PERIODS

PRACTICUM I: FOOD SERVICE MANAGEMENT LAB

Practicum experience under the supervision of a registered dietitian. Application of principles, knowledge, and skills required in the delivery of nutrition services for food service management including food service operations, quantity food production, procurement, organizing and management principles, facility design and equipment, financial management, food safety and sanitation, menu planning, and marketing.

Prerequisites: FON104, FON125, FON142AB, FON207 and FON242. Corequisites: FON244AA.

FON245AA / 2 CREDITS / 2 PERIODS

PRACTICUM II: MEDICAL NUTRITION THERAPY

Classroom preparation and training, under the instruction and supervision of a registered dietitian. Understanding of principles, knowledge, and skills required for the delivery of medical nutrition therapy. Comprehension of nutritional screening, assessment, monitoring, and evaluation for common and complex medical conditions, medical documentation, patient interviewing and counseling, and education in health promotion and disease prevention. Prerequisites: FON125, FON242, HCE103 or equivalent, and MAT092 or equivalent, or satisfactory score on district placement exam. Corequisites: FON245AB.

FON245AB / 2.5 CREDITS / 10 PERIODS

PRACTICUM II: MEDICAL NUTRITION THERAPY LAB

Practicum experience under the supervision of a registered dietitian. Application of principles, knowledge, and skills required for the delivery of medical nutrition therapy. Perform nutritional screening, assessment, monitoring, and evaluation for common and complex medical conditions, medical documentation, patient interviewing and counseling, and education in health promotion and disease prevention.

Prerequisites: FON125, FON242, HCC145AA, and MAT092 or equivalent, or satisfactory score on district placement exam.

Corequisites: FON245AA.

FON246AA / 2 CREDITS / 2 PERIODS

PRACTICUM III: COMMUNITY NUTRITION LECTURE

Classroom preparation and training, under the instruction of a registered dietitian.

Understanding of principles, knowledge and skills required in the delivery of nutrition services in community-based agencies, outpatient health care settings, and social service agencies. Includes knowledge and understanding of nutrition intervention and wellness promotion for individuals and groups across the lifespan, i.e. infants through geriatrics with a diversity of cultural, religious and social backgrounds. Competencies in the classroom met prior to their application in supervised practice settings during the practicum lab (FON246AB). Prerequisites:

FON125 and FON242. Corequisite: FON246AB.

FON246AB / 2 CREDITS / 10 PERIODS

PRACTICUM III: COMMUNITY NUTRITION LAB

Practicum experience under the supervision of a registered dietitian. Application of principles, knowledge and skills required in the delivery of nutrition services in community-based agencies, outpatient health care settings, and social service agencies. Includes nutrition intervention and wellness promotion for individuals and groups across the lifespan, i.e. infants through geriatrics with a diversity of cultural, religious and social backgrounds. Prerequisites: FON125 and FON242. Corequisite: FON246AA.

FON247 / 3 CREDITS / 3 PERIODS

WEIGHT MANAGEMENT THEORY

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.

GBS - General Business

GBS131 / 3 CREDITS / 3 PERIODS

BUSINESS CALCULATIONS

Review of basic arithmetic and application of mathematics to business problems, includes percentage, interest, discount, and markups. Prerequisites: None.

GBS132 / 3 CREDITS / 3 PERIODS

PERSONAL AND FAMILY FINANCIAL SECURITY

Principles and practices of personal and family financial planning, includes savings, budgeting, credit, buying versus renting and general principles of consumerism.

Prerequisites: None.

GBS151 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO BUSINESS

Characteristics and activities of current local, national, and international business. An overview of economics, marketing, management and finance. Prerequisites: None.

GBS205 / 3 CREDITS / 3 PERIODS

LEGAL, ETHICAL, AND REGULATORY ISSUES IN BUSINESS

Legal theories, ethical issues and regulatory climate affecting business policies and decisions. Prerequisites: None.

GBS220 / 3 CREDITS / 3 PERIODS

QUANTITATIVE METHODS IN BUSINESS

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 / 3 CREDITS / 3 PERIODS

SUN BUS2201

BUSINESS STATISTICS

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 / 3 CREDITS / 3 PERIODS

BUSINESS COMMUNICATION

Internal and external business communications, including verbal and nonverbal techniques. Prerequisites: ENG101 or ENG107 with grade of "C" or better, or permission of department/division.

GLG - **Geology**

GLG101 / 3 CREDITS / 3 PERIODS

SUN GLG 1101

INTRODUCTION TO GEOLOGY I - PHYSICAL LECTURE

A study of the kind and arrangement of

materials composing the earth's crust and the geological processes at work on and within the earth's surface. Prerequisites: None.

GLG102 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO GEOLOGY II - HISTORICAL LECTURE

Outlines the origin and history of the earth with emphasis on North America--its dynamic, geographic, and climatic changes; animals and plants of the past; the evolution of life. Prerequisites: None.

GLG103 / 1 CREDIT / 3 PERIODS

SUN GLG 1101

INTRODUCTION TO GEOLOGY I - PHYSICAL LAB

May accompany GLG101. Study of common rock-forming minerals, rocks, and maps. Prerequisites: None.

GLG104 / 1 CREDIT / 3 PERIODS

INTRODUCTION TO GEOLOGY II - HISTORICAL LAB

May accompany GLG102. Study of geological structures and rocks, fossils, and geologic maps. May require field trips. Prerequisites: None.

GLG110 / 3 CREDITS / 3 PERIODS

GEOLOGIC DISASTERS AND THE ENVIRONMENT

Acquaints students with the use and importance of geological studies as they apply to the interactions between

people and the earth. Includes geological processes and hazards such as earthquakes, volcanoes, floods and landslides. Examines environmental impact and use of mineral and energy resources. Prerequisites: None.

GLG111 / 1 CREDIT / 3 PERIODS

GEOLOGICAL DISASTERS AND THE ENVIRONMENT LAB

May accompany GLG110. Basic geological processes and concepts. Emphasis on geology-related environmental problems concerning Arizona. Case histories and field studies. May require field trips. Prerequisites: None.

GLG229AA / 1 CREDIT / 5 PERIODS

FIELD STUDIES FOR EDUCATORS

Field trips to selected geological areas in Arizona in order to collect and/or observe geological phenomena. Designed for precollege teachers. Prerequisites: None.

GLG230AA / 1 CREDIT / 5 PERIODS

FIELD GEOLOGY OF THE SOUTHWEST

Field trips to selected areas in the Southwest, such as Arizona, Utah, California, and Sonora to observe and interpret various geological features and phenomena. Prerequisites: None. GLG103 suggested but not required. Course Notes: GLG230AA may be repeated for a total of four (4) credit hours.

GLG298AA / 1 CREDIT / 1 PERIOD

SPECIAL PROJECTS

Service-learning field experience within human service organizations, government offices, public schools, or hospitals.
Requisites: Prerequisites: Permission of Program Director or Instructor. Course Notes: May be repeated for a total of six (6) GLG282 credit hours; may not repeat specific agency assignment for more than three (3) credit hours. Standard grading available according to procedures outlined in catalog

GPH - Physical Geography

GPH111 / 4 CREDITS / 6 PERIODS

INTRODUCTION TO PHYSICAL GEOGRAPHY

Spatial and functional relationships among climates, landforms, soils, water, and plants. Prerequisites: None.

GPH212 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO METEOROLOGY I

Atmospheric processes and elements. General and local circulation, heat exchange and atmospheric moisture. Prerequisites: None.

GPH214 / 1 CREDIT / 3 PERIODS

INTRODUCTION TO METEOROLOGY LABORATORY I

Basic meteorological and climatological

measurements. Prerequisites: None. Corequisites: GPH212.

German

GER101 / 4 CREDITS / 4 PERIODS

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ELEMENTARY GERMAN I

Basic grammar, pronunciation and vocabulary of the German language. Includes the study of German culture, practice of listening, speaking, reading and writing skills.

Prerequisites: None.

GER102 / 4 CREDITS / 4 PERIODS

ELEMENTARY GERMAN II

Continued study of grammar and vocabulary of the German language along with the study of German culture. Emphasis on German language skills. Prerequisites: GER101, or GER101AA, or permission of Department or Division. Completion of prerequisites within the last three years is required

HCC - Health Core Curriculum

HCC130 / 3 CREDITS / 3 PERIODS

FUNDAMENTALS IN HEALTH CARE DELIVERY

Overview of current and recent development of health care professions, including career and labor market information, health care delivery systems, third party payers, and facility ownership. Health organization structure, patient rights and quality care. Health care and life values. Definition and importance of values, ethics, and essential behaviors in the workplace. Worker rights and responsibilities. Healthful living practices to include nutrition, stress management and exercise. Occupational Safety and Health Administration (OSHA) standard precautions and facility safety. Use of principles of body mechanics in daily living activities. Basic communication skills which facilitate interprofessional teamwork in the health care setting. Focus on development of personal communication skills and an understanding of how effective communication skills promote teamwork. Focus on intercultural communication strategies. Prerequisites: None.

HCC145AA / 1 CREDIT / 1 PERIOD

MEDICAL TERMINOLOGY FOR HEALTH CARE PROFESSIONALS 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 selected terms using basic word parts. Selected medical abbreviations and symbols and term spelling.

HCC145AB / 1 CREDIT / 1 PERIOD

MEDICAL TERMINOLOGY FOR HEALTH CARE PROFESSIONALS II

Selected 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 selected terms using standard word parts. Selected abbreviations and symbols and term spelling.

HCR - Health Care Related

HCR210 / 3 CREDITS / 3 PERIODS

CLINICAL HEALTH CARE ETHICS

An introduction to health care ethics with emphasis on analysis and ethical decision making at both the clinical and health policy levels for health care professionals. Theoretical foundation of bioethics reviewed within historical and contemporary contexts. Prerequisites: ENG102 or ENG108 or permission of Instructor.

HCR220 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO NURSING AND HEALTH CARE SYSTEMS

Introduction to the social, political, and economic contexts of the nursing profession and health care systems in the United States. Prerequisites: Grade of "C" or better in ENG102 or ENG108.

HCR230 / 3 CREDITS / 3 PERIODS

CULTURE AND HEALTH

Relation between cultures of diverse groups and health/illness. Emphasis on cross-cultural

communication, including awareness of own cultural influences and indigenous and complementary healing practices. Prerequisites: None.

HCR240 / 4 CREDITS / 4 PERIODS

HUMAN PATHOPHYSIOLOGY

Chemical, biological, biochemical, and psychological processes as a foundation for the understanding of alterations in health. The structural and functional pathophysiology of alterations in health; selected therapeutics considered. Prerequisites: BIO202 or BIO205, or permission of Instructor.

HES - Health Science

HES100 / 3 CREDITS / 3 PERIODS

HEALTHFUL LIVING

Health and wellness and their application to an optimal life style. Explores current topics of interest such as stress management, nutrition, fitness, and environmental health. Evaluates common risk factors associated with modern lifestyles. Prerequisites: None.

HES210 / 3 CREDITS / 3 PERIODS

CULTURAL ASPECTS OF HEALTH AND ILLNESS

Examines how culture influences health and illness, health care practices, barriers to health care, interactions with health care professionals, and health disparities in the U.S. Prerequisites: None.

HES271 / 3 CREDITS / 3 PERIODS

PREVENTION AND TREATMENT OF ATHLETIC INJURIES

Prevention and care of athletic injuries, emphasizing use of modern training techniques and support materials. Utilization of preventive taping, strapping, bandaging, cardiopulmonary resuscitation, massage, cryotherapy, hydrotherapy, and practical application of muscle reconditioning. Prerequisites: None.

HIS - History

HIS103 / 3 CREDITS / 3 PERIODS

SUN HIS 1131

UNITED STATES HISTORY TO 1865

The political, economic, and social development of the United States from the Pre-Columbian period through the end of the Civil War (1865). Prerequisites: None.

HIS104 / 3 CREDITS / 3 PERIODS

SUN HIS 1132

UNITED STATES HISTORY 1865 TO PRESENT

The political, economic, and social development of United States from 1865 to the present time. Prerequisites: None.

HIS106 / 3 CREDITS / 3 PERIODS

SOUTHWEST HISTORY

Survey of Hispanic, Anglo, African-American and Native cultures of the peoples who have

settled the American Southwest. Emphasis on cattle, mining, fur trade and transportation industries and role development of the region. Prerequisites: None.

HIS108 / 3 CREDITS / 3 PERIODS

UNITED STATES HISTORY 1945 TO THE PRESENT

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.

HIS109 / 3 CREDITS / 3 PERIODS

MEXICAN-AMERICAN HISTORY AND CULTURE

Examination of origins and development of Spanish-American and Mexican-American peoples and their contribution to culture, history and development of United States. Emphasis on Mexican-American War and its impact on educational, social, and economic conditions of the Mexican-Americans of the southwest. Prerequisites: None.

HIS110 / 3 CREDITS / 3 PERIODS

WORLD HISTORY TO 1500

Survey of the economic, social, cultural, and political elements of world history from the beginning of human civilization to 1500. Prerequisites: None.

HIS111 / 3 CREDITS / 3 PERIODS

WORLD HISTORY 1500 TO THE PRESENT

Survey of the economic, social, cultural, and political elements of world history from 1500 to the present. Prerequisites: None.

HIS113 / 3 CREDITS / 3 PERIODS

HISTORY OF EASTERN CIVILIZATIONS TO 1850

An examination of the characteristics and development of civilizations, religions and philosophies of the Middle East, India, Far East, and Southeast Asia. From ancient times to the mid-nineteenth century. Prerequisites: None.

HIS140 / 3 CREDITS / 3 PERIODS

AMERICAN INDIAN HISTORY

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.

HIS201 / 3 CREDITS / 3 PERIODS

HISTORY OF WOMEN IN AMERICA

Introduction to women's history from the colonial period to the present.

Deals chronologically with changes and developments which have influenced the lives of women. Prerequisites: None.

HIS242 / 3 CREDITS / 3 PERIODS

LATIN AMERICAN CIVILIZATION IN THE POST-COLONIAL PERIOD

A survey of the political, economic, and social forces which molded Latin American civilization in the period of the development of Republics. Prerequisites: None.

HIS273 / 3 CREDITS / 3 PERIODS

US EXPERIENCE IN VIETNAM 1945 - 1975

Survey of the US experience in Vietnam, 1945-1975, in view of political, economic, and social forces of the Cold War. Prerequisites: None.

HIS277 / 3 CREDITS / 3 PERIODS

THE MODERN MIDDLE EAST

Survey of the political and economic development of the Middle East since 1500. Emphasis on the decline of the Moslem empire, the resurgence of contemporary Pan-Arabian, the Palestinian-Israeli question and the impact of oil production on the region and the rest of the world. Prerequisites: None.

HUM - Humanities

HUM101 / 3 CREDITS / 3 PERIODS

GENERAL HUMANITIES

A general humanities course concentrating on three great ages of outstanding human achievement: The Golden Age of Greece, the Renaissance and the 20th Century.

Prerequisites: None.

HUM107 / 3 CREDITS / 3 PERIODS

HUMANITIES THROUGH THE ARTS

Introduction to humanities including film, drama, music, literature, painting, sculpture, and architecture. Prerequisites: None.

HUM108 / 3 CREDITS / 3 PERIODS

CONTEMPORARY HUMANITIES

An exploration of human expression in contemporary arts and sciences. Prerequisites: None.

HUM120 / 3 CREDITS / 3 PERIODS

CULTURAL VIEWPOINTS IN THE ARTS

Introduction to the influence of culture and ethnicity on the artist, including factors such as race, religion, gender, class, sexual preference, age, and region. Lecture and discussion on various art forms, including literature, visual arts, music, dance, film, and theater. Prerequisites: None.

HUM201 / 3 CREDITS / 3 PERIODS

HUMANITIES: UNIVERSAL THEMES

Study of worldviews in a variety of historical and contemporary world cultures, including analysis of origin and creation myths, artistic expression, spirituality, and the natural environment. Prerequisites: None.

HUM205 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO CINEMA

Survey of the history and development of the art of motion pictures, including criticism of aesthetic and technical elements. Prerequisites: None.

HUM209 / 3 CREDITS / 3 PERIODS

WOMEN AND FILMS

Analysis of images of women in films from both historical and contemporary perspectives. Prerequisites: None

HUM213 / 3 CREDITS / 3 PERIODS

HISPANIC FILM

Analysis of Hispanic film as art form and as social commentary. Prerequisites: None.

HUM250 / 3 CREDITS / 3 PERIODS

IDEAS AND VALUES IN THE HUMANITIES

An historical analysis of the interrelationships of art, architecture, literature, music, and philosophy from the early civilizations to the Renaissance, including western and non-western cultures. Prerequisites: ENG101.

HUM251 / 3 CREDITS / 3 PERIODS

IDEAS AND VALUES IN THE HUMANITIES

An historical analysis of the interrelationships of art, architecture, literature, music, and philosophy from the Renaissance to modern period, including Western and Non-Western cultures. Prerequisites: ENG101.

IBS - International Business

IBS101 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO INTERNATIONAL BUSINESS

A basic overview of international business to introduce students to international trade concepts. Focus of the course is on international business environment issues that influence global business practices, decisions and applications. Prerequisites: None.

IBS109 / 3 CREDITS / 3 PERIODS

CULTURAL DIMENSION FOR INTERNATIONAL TRADE

The importance of cultural sensitivity in international business relations investigated by studying the impact of geography, history, religion, politics, customs and cross-cultural communications on society. Prerequisites: None.

IFS - Information Studies

IFS110 / 1 CREDIT / 1 PERIOD

CRITICAL RESEARCH FOR COLLEGE SUCCESS

Access, evaluate, and incorporate sources appropriately into academic projects.

Prerequisites: None. Course Notes: IFS110 may be repeated for a total of four (4) credit hours.

IFS201 / 3 CREDITS / 3 PERIODS

INFORMATION IN A POST-TRUTH WORLD

Development of critical thinking skills in using information. Exploration of how information can be used as a tool or a weapon.

Explanation of the role of information as a consumer and creator. Recognition of the impact of culture and worldview on how information is understood, created, and disseminated. Prerequisites: A grade of "C" or better in ENG101 or ENG107.

IFS210 / 3 CREDITS / 3 PERIODS

RESEARCH IN A GLOBAL SOCIETY

A comparative study focused on access to digital information in a global environment. Explore the global culture developing around the Internet and the impact of local, national and global cultures as well as economic and social factors related to the flow of information in a global society. Examine emerging technologies to produce and distribute information across cultures

in a global society in an ethical manner. Prerequisites: None. Course Notes: IFS210 may be repeated for a total of six (6) credit hours.

ITS - Information Technology Security

ITS100 / 1 CREDIT / 2 PERIODS

INFORMATION SECURITY AWARENESS

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.

ITS110 / 3 CREDITS / 4 PERIODS

INFORMATION SECURITY FUNDAMENTALS

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 Protocol/Internet Protocol (TCP/IP) and security concepts and Microsoft (MS) Windows and Linux Administration. Prerequisites: CIS126DA, or CIS126DL, or permission of Program Director. Prerequisites or Corequisites: Any MST150++ course.

ITS120 / 3 CREDITS / 3 PERIODS

LEGAL, ETHICAL AND REGULATORY ISSUES

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 / 3 CREDITS / 4 PERIODS

OPERATING SYSTEM SECURITY

In-depth examination of operating system security including Transmission Control Protocol/ Data Encryption Standard (DES), Triple Data Encryption Standard (3DES), Advanced Encryption Standard (AES), Pretty Good Privacy (PGP), and other encryption technologies (TCP/IP), Internet Protocol Security (IPSec) and Cisco Internetwork Operating System (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 / 3 CREDITS / 4 PERIODS

NETWORK SECURITY

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 / 3 CREDITS / 4 PERIODS

BUILDING TRUSTED NETWORKS IN THE ENTERPRISE

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.

ITS170 / 1 CREDIT / 1 PERIOD

INFORMATION SECURITY POLICY DEVELOPMENT

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.

ITS172 / 1 CREDIT / 2 PERIODS

VIRUSES AND OTHER MALICIOUS SOFTWARE

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.

ITS231 / 1 CREDIT / 2 PERIODS

ROUTER HARDENING

The role of routers in communication networks. Device specific threats and vulnerabilities. Strategies to harden routers to protect networks. Includes standards-based and proprietary protocols. Prerequisites:

CNT150 or permission of the instructor

JRN - Journalism

JRN201 / 3 CREDITS / 5 PERIODS

SUN JRN 2201

NEWS WRITING

Writing and producing news for the media. Associated Press editing style, writing skills, and organizational structure for news. Prerequisites: ENG101 or ENG107.

MAT - Mathematics

MAT051 / 1 CREDIT / 1 PERIOD

NUMBER SENSE I

Primary emphasis on conceptual understanding of whole numbers, integers and mathematical operations. Focus on mathematical language, connections, patterns and reasoning. Prerequisites: Satisfactory score on the district math placement test.

MAT052 / 1 CREDIT / 1 PERIOD

NUMBER SENSE II

Primary emphasis on conceptual understanding of decimals, decimal operations and fractions. Focus on mathematical language, connections, patterns and reasoning. Prerequisites: A grade of "C" or better, or satisfactory Math Diagnostic Assessment score for MAT051.

MAT053 / 1 CREDIT / 1 PERIOD

MULTIPLICATIVE AND PROPORTIONAL REASONING

Primary emphasis on conceptual understanding of and solving problems involving fractions and percentages. Focus on additive and multiplicative reasoning. Prerequisites: A grade of "C" or better, or satisfactory Math Diagnostic Assessment Score for MAT051 and MAT052.

MAT054 / 1 CREDIT / 1 PERIOD

GEOMETRY

Primary emphasis on conceptual understanding of and solving problems involving angles and geometric figures. Use of systems of measure, similarity, proportionality and the Pythagorean theorem. Prerequisites: A grade of "C" or better, or satisfactory Math Diagnostic Assessment Score for MAT051, MAT052 and MAT053. Corequisites: MAT055, or MAT056, or MAT057.

MAT055 / 1 CREDIT / 1 PERIOD

ALGEBRAIC STRUCTURES

Emphasis on meanings related to variable, equality, inequality, equivalence. The use of additive and multiplicative reasoning in solving linear equations and inequalities in one variable. Validation of solution(s) through a reasonable mathematical defense. Transfer and apply knowledge through a process of sense making and reasonableness in mathematical problems and practical application situations. Prerequisites: A

grade of "C" or better, or satisfactory Math Diagnostic Assessment score for MAT051, MAT052, and MAT053.

MAT056 / 1 CREDIT / 1 PERIOD

FUNCTIONS I

Recognize patterns and organize data to represent situations where output is related to input. Understand the concept of function and be able to represent functions in multiple ways, including tables, algebraic rules, graphs and contextual situations, and make connections among these representations. Prerequisites: A grade of "C" or better, or satisfactory Math Diagnostic Assessment score for MAT051, MAT052, MAT053, and MAT055.

MAT057 / 1 CREDIT / 1 PERIOD

FUNCTIONS II

Read, represent, and interpret linear function relationships numerically, analytically, graphically and verbally and connect the different representations. Model and solve real world problems involving constant rate of change. Prerequisites: A grade of "C" or better, or satisfactory Math Diagnostic Assessment score for MAT051, MAT052, MAT053, MAT055, and MAT056.

MAT108AA / 1 CREDIT / 1 PERIOD

TUTORED MATHEMATICS

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: MAT072, or MAT081, or MAT082, or MAT083, or MAT090, or MAT091, or MAT092, or MAT093, or MAT120, or MAT121, or MAT122, or MAT140, or MAT141, or MAT142, or MAT150, or MAT151, or MAT152, or permission of Department Chair. Course Notes: MAT108AA may be repeated for a total of ten (10) credit hours.

MAT112 / 3 CREDITS / 3 PERIODS

MATHEMATICAL CONCEPTS AND APPLICATIONS

A problem solving approach to mathematics as it applies to real-life situations.

Development, use and communication of mathematical concepts and applications that relate to measurement, percentage, practical geometry, statistics, finance, and unit conversions. Prerequisites: An appropriate mathematics placement score, OR a grade of "C" or better for MAT090, or MAT091, or MAT092, OR (an appropriate diagnostic score, or a grade of "C" or better in each of the following courses: MAT055, MAT056, and MAT057).

MAT121 / 4 CREDITS / 4 PERIODS

INTERMEDIATE ALGEBRA

Analysis of rational, radical, quadratic and exponential equations, functions and applications; graphs of radical, quadratic and exponential functions; operations on polynomial, rational, and radical expressions. An appropriate mathematics placement

score, OR a grade of "C" or better for MAT090, or MAT091, or MAT092, OR (an appropriate diagnostic score, or a grade of "C" or better in each of the following courses: MAT055, MAT056, and MAT057). Course Notes: Students may receive credit for only one of the following: MAT120, MAT121, or MAT122.

MAT122 / 3 CREDITS / 3 PERIODS

INTERMEDIATE ALGEBRA

Analysis of rational, radical, quadratic and exponential equations, functions and applications; graphs of radical, quadratic and exponential functions; operations on polynomial, rational, and radical expressions. Prerequisites: An appropriate mathematics placement score, OR a grade of "B" or better for MAT090, or MAT091, or MAT092, OR (an appropriate diagnostic score, or a grade of "B" or better in each of the following courses: MAT055, MAT056, and MAT057). Course Notes: Students may receive credit for only one of the following: MAT120, MAT121, or MAT122.

MAT141 / 4 CREDITS / 4 PERIODS

COLLEGE MATHEMATICS

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: (A grade of "C" or better in MAT090, or MAT091, or MAT092, or MAT093),

or successful completion of Maricopa Modules, or satisfactory score on District placement exam, or a grade of "C" or better in MAT120, or MAT121, or MAT122. Course Notes: Students may receive credit for only one of the following: MAT140, MAT141, or MAT142.

MAT142 / 3 CREDITS / 3 PERIODS

SUN MAT 1142

COLLEGE MATHEMATICS

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. Requisites: Prerequisites: An appropriate mathematics placement score, OR a grade of "B" or better for MAT090, or MAT091, or MAT092, OR (an appropriate diagnostic score, or a grade of "B" or better in each of the following courses: MAT055, MAT056, and MAT057), or a grade of "C" or better in MAT120, or MAT121, or MAT122. Course Notes: Students may receive credit for only one of the following: MAT140, MAT141, or MAT142.

MAT151 / 4 CREDITS / 4 PERIODS

SUN MAT 1151

COLLEGE ALGEBRA/FUNCTIONS

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, using multiple methods including matrices, modeling and solving real world problems, and defining and illustrating sequences and series. Prerequisites: A grade of "C" or better in MAT120, or MAT121, or MAT122, or satisfactory score on District placement exam. Course Note: May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187.

MAT152 / 3 CREDITS / 3 PERIODS

COLLEGE ALGEBRA/FUNCTIONS

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, using multiple methods including matrices, modeling and solving real world problems, and defining and illustrating sequences and series. Prerequisites: A grade of "B" or better in MAT120, or MAT121, or MAT122, or satisfactory score on District placement exam. Course Note: May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187.

MAT182 / 3 CREDITS / 3 PERIODS

PLANE TRIGONOMETRY

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. May receive credit for only one of the following: MAT182 or MAT187. Prerequisites: Grade of "C" or better in MAT150, or MAT151, or MAT152, or equivalent, or concurrent registration in MAT150, or MAT151, MAT152, or satisfactory score on District placement exam.

MAT187 / 5 CREDITS / 5 PERIODS

SUN MAT 1187

PRECALCULUS

A precalculus course combining topics from college algebra and trigonometry. Preparation for analytic geometry and calculus. May receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187. Prerequisites: Grade of "B" or better in MAT120, MAT121, or MAT122, or equivalent, or satisfactory score on a placement test. Course Notes: Strongly recommended that students have some knowledge of trigonometry.

MAT206 / 3 CREDITS / 3 PERIODS

SUN MAT 1160

ELEMENTS OF STATISTICS

Basic concepts and applications of statistics, including data description, estimation and hypothesis tests. Prerequisites: (A grade of "C" or better in MAT140 or MAT141 or MAT142) or (A grade of "C" or better in MAT150 or MAT151 or MAT152) or equivalent, or satisfactory score on District placement exam.

MAT212 / 3 CREDITS / 3 PERIODS

SUN MAT 2212

BRIEF CALCULUS

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 appropriate Math placement test score.

Course Notes: Students may receive credit for only one of the following: MAT212 or MAT213.

MAT213 / 4 CREDITS / 4 PERIODS

BRIEF CALCULUS

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 appropriate Math placement test score.

Course Notes: Students may receive credit for only one of the following: MAT212 or MAT213.

MAT217 / 3 CREDITS / 3 PERIODS

MATHEMATICAL ANALYSIS FOR BUSINESS

An introduction to the mathematics required for the study of business. Includes multivariable optimization, Lagrange multipliers, linear programming, linear algebra, probability, random variables, discrete and continuous distributions.

Prerequisites: Grade of C or better in MAT212 or MAT213.

MAT220 / 5 CREDITS / 5 PERIODS

SUN MAT 2220

CALCULUS WITH ANALYTIC GEOMETRY I

Limits, continuity, differential and integral calculus of functions of one variable.

Prerequisites: Grade of "C" or better in [MAT182 and (MAT150, MAT151 or MAT152)], or MAT187, or appropriate Math placement test score. Course Notes: Students may receive credit for only one of the following: MAT220 or MAT221.

MAT221 / 4 CREDITS / 4 PERIODS

CALCULUS WITH ANALYTIC GEOMETRY I

Limits, continuity, differential and integral calculus of functions of one variable.

Prerequisites: Grade of "C" or better in [MAT182 and (MAT150, MAT151 or MAT152)], or MAT187, or appropriate Math placement test score. Course Notes: Student may receive credit for only one of the following: MAT220 or MAT221.

MAT225 / 3 CREDITS / 3 PERIODS

ELEMENTARY LINEAR ALGEBRA

Introduction to matrices, systems of linear equations, determinants, vector spaces, linear transformations and eigenvalues. Emphasizes the development of computational skills. Prerequisites: Grade of "C" or better in MAT212 or MAT220, or MAT221, or equivalent.

MAT227 / 3 CREDITS / 3 PERIODS

SUN MAT 2227

DISCRETE MATHEMATICAL STRUCTURES

Introduction to lattices, graphs, Boolean algebras, and groups. Emphasis on topics relevant to computer science. Prerequisites: A grade of "C" or better in (CSC100 or CSC110) and (MAT220 or MAT221) or permission of Instructor.

MAT230 / 5 CREDITS / 5 PERIODS

SUN MAT 2230

CALCULUS WITH ANALYTIC GEOMETRY II

Techniques of integration for both proper and improper integrals with applications to the physical and social sciences, elements of analytic geometry, and the analysis of sequences and series. Prerequisites: Grade of "C" or better in MAT220 or MAT221 or equivalent. Course Note: Student may receive credit for only one of the following: MAT230 or MAT231.

MAT231 / 4 CREDITS / 4 PERIODS

CALCULUS WITH ANALYTIC GEOMETRY II

Techniques of integration for both proper and improper integrals with applications to the physical and social sciences, elements of analytic geometry, and the analysis of sequences and series. Prerequisites: Grade of "C" or better in MAT220, or MAT221, or equivalent. Course Notes: MAT231 students may receive credit for only one of the following: MAT230 or MAT231.

MAT240 / 5 CREDITS / 5 PERIODS

CALCULUS WITH ANALYTIC GEOMETRY III

Multivariate calculus including vectors, vectorvalued functions, partial differentiation, multiple integration, and an introduction to vector fields. Prerequisites: Grade of "C" or better in MAT230 or MAT231. Course Note: Student may receive credit for only one of the following: MAT240 or MAT241.

MAT241 / 4 CREDITS / 4 PERIODS

SUN MAT 2241

CALCULUS WITH ANALYTIC GEOMETRY III

Multivariate calculus including vectors, vectorvalued functions, partial differentiation, multiple integration and an introduction to vector fields. Prerequisites: Grade of "C" or better in MAT230 or MAT231. Course Note: Student may receive credit for only one of the following: MAT240 or MAT241.

MAT256 / 3 CREDITS / 3 PERIODS

INVESTIGATING QUANTITY: NUMBER, OPERATIONS AND NUMERATION SYSTEMS

Explore number, numeration systems and operations on numbers. Techniques of problem solving with an emphasis on exploring a variety of strategies. Use a variety of visualization techniques to develop a conceptual understanding of these topics.

Prerequisites: A grade of "C" or better in (MAT150 or MAT151 or MAT152 or higher), or a grade of "C" or better in [(MAT120 or MAT121 or MAT122) and (MAT140 or MAT141 or MAT142 or higher)], or [a grade of "C" or better in (MAT140 or MAT141 or MAT142) and satisfactory score on District placement exam to permit enrollment in (MAT150 or MAT151 or MAT152 or higher)]. Course Notes: MAT256 is designed to meet requirements for prospective elementary education teachers.

MAT257 / 3 CREDITS / 3 PERIODS

INVESTIGATING GEOMETRY, PROBABILITY AND STATISTICS

Explores geometry, measurement, probability and statistics. Uses visualization, technologies, problem solving, reasoning and proof to develop a conceptual understanding of these topics. Prerequisites: MAT256 or permission of Instructor. Course Notes: MAT257 is designed to meet the requirements for prospective elementary education teachers.

MAT276 / 4 CREDITS / 4 PERIODS

MODERN DIFFERENTIAL EQUATIONS

Introduces differential equations, theoretical and practical solution techniques with applications. Problem solving using MATLAB. Prerequisites: Grade of "C" or better in MAT230, or MAT231, or permission of Department or Division. Course Notes: Students may receive credit for only one of the following: MAT276 or MAT277.

MAT277 / 3 CREDITS / 3 PERIODS

MODERN DIFFERENTIAL EQUATIONS

Introduces differential equations, theoretical and practical solution techniques with applications. Problem solving using MATLAB. Prerequisites: Grade of C or better in MAT230 or MAT231 or permission of Department or Division.

MAT290 / 1 CREDIT / 1 PERIOD

MATHEMATICS PROFESSIONAL DEVELOPMENT

Expand subject matter content knowledge and pedagogical content knowledge of the mathematics taught at the community college and beyond through an in-depth study of at least one mathematical concept; e.g. positional numeration system or mathematical properties, and the progression of the selected concept(s) through the courses offered at the community college level and beyond. Use of a variety of instructional strategies including studentcentered lesson design, inquiry-based learning, problem-based learning, review of relevant literature and so forth as well as classroom observations during which the concept is taught. Prerequisites: None. Course Notes: MAT290 may be repeated for credit.

MAT295 / 1 CREDIT / 1 PERIOD

SPECIAL TOPICS IN MATHEMATICS

Conceptual and computational aspects of a special topic in modern mathematics. Prerequisites: Permission of Instructor.

MCO - Mass Communications

MCO120 / 3 CREDITS / 3 PERIODS

MEDIA AND SOCIETY

Study of historical and contemporary roles of media and its pervasiveness in society as it relates to culture, politics and education. Prerequisites: ENG101 or ENG107.

MGT - Management

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MGT101 / 3 CREDITS / 3 PERIODS

TECHNIQUES OF SUPERVISION

Overview of the foundations of supervision and how to get things done within an organization through other people. The functions of planning, organizing, staffing, motivating and controlling presented.

Prerequisites: None.

MGT175 / 3 CREDITS / 3 PERIODS

BUSINESS ORGANIZATION AND MANAGEMENT

Covers basic principles of managing quality and performance in organizations. Covers management functions: planning, organizing, leading, and controlling. Emphasizes continual improvement, ethics, and social responsibility. Prerequisites: None.

MGT229 / 3 CREDITS / 3 PERIODS

MANAGEMENT AND LEADERSHIP I

Covers management concepts and applications for business, industry, and government organizations. Prerequisites: None.

MGT251 / 3 CREDITS / 3 PERIODS

HUMAN RELATIONS IN BUSINESS

Analysis of motivation, leadership, communications, and other human factors. Cultural differences that may create conflict and affect morale individually and within organizations. Prerequisites: None. MGT101 or MGT175 or MGT229 suggested, but not required.

MGT253 / 3 CREDITS / 3 PERIODS

OWNING AND OPERATING A SMALL BUSINESS

Starting, organizing, and operating a small business, including location, finance management processes, advertisement and promotion, credit, inventory control and ethics. Prerequisites: None.

MGT276 / 3 CREDITS / 3 PERIODS

PERSONNEL/HUMAN RESOURCES MANAGEMENT

Human resource planning, staffing, training, compensating, and appraising employees in labor management relationships.

Prerequisites: None. MGT101, or MGT175, or MGT229 suggested but not required.

MHL - Music: History/ Literature

MHL140 / 3 CREDITS / 3 PERIODS

SURVEY OF MUSIC HISTORY

Study of composers, compositions, styles, and periods in music history. Prerequisites: None.

MHL143 / 3 CREDITS / 3 PERIODS

MUSIC IN WORLD CULTURES

Non-European musical traditions including the study of music in rituals, musical instruments and the impact of cultures on musical styles. Prerequisites: None.

MHL145 / 3 CREDITS / 3 PERIODS

AMERICAN JAZZ AND POPULAR MUSIC

The study of cultural and social contributions to the evolution of American jazz and popular music from the mid-1800's to present.

Prerequisites: None.

MHL146 / 3 CREDITS / 3 PERIODS

SURVEY OF BROADWAY MUSICALS

Survey of Broadway musicals traced from their origins to the present viewed in their cultural, political, and socio-economic contexts.

Emphasis on stylistic periods, composers, lyricists, directors, and choreographers.

Prerequisites: None.

MHL153 / 3 CREDITS / 3 PERIODS

ROCK MUSIC AND CULTURE

History of Rock music and how cultural, social, political, and economic conditions have shaped its evolution. Prerequisites: None.

MHL155 / 3 CREDITS / 3 PERIODS

SURVEY OF AMERICAN MUSIC

History of the music of North America from the earliest American Indian music to the present. Introduction to the musical trends, composers, socioeconomic developments and trends, musical forms and styles that influence our modern American musical sense. Prerequisites: None.

MHL241 / 3 CREDITS / 3 PERIODS

MUSIC HISTORY AND LITERATURE TO 1750

In-depth study of music history from the primitive era through the Baroque period. Prerequisites or Corequisites: MTC155 and MTC156, or permission of Instructor.

MHL242 / 3 CREDITS / 3 PERIODS

MUSIC HISTORY AND LITERATURE 1750 TO PRESENT

In-depth study of music history from the Classical period through the Contemporary period. Prerequisites: MHL241 or permission of instructor.

MKT - Marketing

MKT110 / 3 CREDITS / 3 PERIODS

MARKETING AND SOCIAL NETWORKING

Theory and practice in the use of social media in marketing. Topics may include a history of social media, preparation for social marketing, the power of collective influence, and how to engage with social media. Reviews social mediums, social networks, platforms and other marketing tools used to create a social media campaigns. Prerequisites: None.

MKT111 / 3 CREDITS / 3 PERIODS

APPLIED MARKETING AND SOCIAL NETWORKING

Examination of the strategic use of digital and social media marketing platforms and tools for global communication and networking, including analysis of various digital and social media platforms and tools for developing brands, creating professional networks and creating engaging content. Hands-on use of social media platforms and tools to conduct research, develop strategies for creating, integrating, and evaluating social media marketing campaigns, and development of metrics to measure effectiveness.

Prerequisites: MKT110.

MKT263 / 3 CREDITS / 3 PERIODS

ADVERTISING PRINCIPLES

Introduces the advertising function within

business, including media study, creative strategies, and advertising campaigns.

Prerequisites: None. MKT271 suggested, but not required.

MKT268 / 3 CREDITS / 3 PERIODS

MERCHANDISING

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 / 3 CREDITS / 3 PERIODS

PRINCIPLES OF MARKETING

An analysis of the marketing process and environment with regard to the product, pricing, distribution, and communication in order to satisfy buyer needs. Prerequisites: None.

MSP - Mortuary Science

MSP101 / 1 CREDIT / 1 PERIOD

ORIENTATION TO FUNERAL SERVICE

Designed to orient prospective students to funeral service and its history, philosophy, educational requirements, apprenticeship, licensure examination, job descriptions for funeral directors and embalmers, employment outlook. Prerequisites: None.

MSP201 / 3 CREDITS / 3 PERIODS

HISTORY AND SOCIOLOGY OF FUNERAL SERVICE

Survey of history of funeral service from ancient to modern times. Sociological aspects of how various cultures deal with death.

Prerequisites: Admission to the Mortuary Science Program.

MSP202 / 4 CREDITS / 5 PERIODS

EMBALMING

Study of the disinfection, preservation and restoration of the deceased human body by chemical means for the specific purpose of funeralization. Prerequisites: Admission to the Mortuary Science Program.

MSP203 / 3 CREDITS / 3 PERIODS

MICROBIOLOGY FOR FUNERAL SERVICE

Survey of the microbiological world as it pertains to the funeral service profession.

Knowledge of those organisms that can cause death and safety precautions. Prerequisites:

Admission to the Mortuary Science Program.

MSP204 / 3 CREDITS / 3 PERIODS

CHEMISTRY FOR FUNERAL SERVICE

Basic principles of chemistry related to funeral service. Chemical principles of embalming, disinfection and public health. Sanitation practices regarding potentially harmful chemicals. Prerequisites: Admission to the Mortuary Science Program.

MSP205 / 3 CREDITS / 3 PERIODS

MORTUARY ADMINISTRATION I

Funeral directing and professional relationships with members of the clergy. Introductory information about the establishment of a funeral home. Prerequisites: Admission to the Mortuary Science Program.

MSP206 / 3 CREDITS / 3 PERIODS

MORTUARY ADMINISTRATION II

Operation of the established funeral home and product knowledge in the area of funeral service merchandising. Prerequisites: MSP205.

MSP207 / 4 CREDITS / 5 PERIODS

RESTORATIVE ART

Care and restoration of the deceased human body to create natural form and appearance. Includes anatomical aspects and color theory. Prerequisites: Admission to the Mortuary Science Program.

MSP208 / 3 CREDITS / 3 PERIODS

LEGAL, REGULATORY, AND ETHICAL ISSUES IN FUNERAL SERVICE

Mortuary law regulation by the Federal Trade Commission, and ethical issues in funeral service. Individual State Laws as they pertain to the regulation of funeral establishments and funeral service personnel. Prerequisites: Admission to the Mortuary Science Program.

MSP209 / 3 CREDITS / 3 PERIODS

PATHOLOGY FOR FUNERAL SERVICE

Pathologic conditions which require special treatment and terminology associated with the causes of death. Prerequisites: Admission to the Mortuary Science Program.

MSP210 / 2 CREDITS / 2 PERIODS

COUNSELING FOR FUNERAL SERVICE

Knowledge for facilitating the mourning process after the death of a loved one and for referring bereaved persons to other sources of professional assistance. Prerequisites:

Admission to the vv Program.

MSP211 / 3 CREDITS / 3 PERIODS

COMPENDIUM FOR FUNERAL SERVICE

Analysis of tasks performed on a more-or-less day-to-day basis by funeral service personnel. Capstone experience based on all previous course work. Prerequisites: Admission to the Mortuary Science Program.

MST - Microsoft Technology

MST141 / 3 CREDITS / 4 PERIODS

ENTERPRISE DESKTOP SUPPORT TECHNICIAN

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.

Prerequisites: (CIS102 or any CIS102++ course) and CIS105, or permission of Instructor.

Prerequisites or Corequisites: MST150, or any MST150++ course, or permission of Instructor.

Course Notes: Preparation for Microsoft

Certified IT Professional: Enterprise Desktop

Support Technician 7 (MCITP) certification examination, 70-685.

MST150 / 3 CREDITS / 4 PERIODS

MICROSOFT WINDOWS PROFESSIONAL

Knowledge and skills necessary to perform day-to-day administration tasks in a Microsoft Windows-based network. Preparation for Microsoft certification examination. Prerequisites: None. CIS190, or CNT140, or MST140 suggested but not required.

MST150VI / 3 CREDITS / 4 PERIODS

MICROSOFT WINDOWS VISTA ADMINISTRATION

Knowledge and skills necessary to perform day-to-day workstation administration tasks of Microsoft Windows Vista. Preparation for Microsoft certification examination.

Prerequisites: None. CIS190, or CNT140, or MST140 suggested but not required.

MST150XP/ 3 CREDITS / 4 PERIODS

MICROSOFT WINDOWS XP PROFESSIONAL

Knowledge and skills necessary to perform

day-to-day administration tasks of Microsoft Windows XP Professional. Preparation for Microsoft certification examination Prerequisites: None. CIS190, or CNT140, or MST140 suggested but not required.

MST152 / 4 CREDITS / 5 PERIODS

MICROSOFT WINDOWS SERVER

Knowledge and skills necessary to install, configure, customize, optimize, network, integrate, and troubleshoot Windows Server. Preparation for Microsoft certification examination. Prerequisites or Corequisites: Any MST150 course or permission of instructor.

MST152DA / 4 CREDITS / 6 PERIODS

MICROSOFT WINDOWS 2000 SERVER

Knowledge and skills necessary to install, configure, customize, optimize, network, integrate, and troubleshoot Microsoft Windows 2000 Server. Preparation for Microsoft certification examination.

Prerequisites or Corequisites: Any MST150 course or permission of instructor.

MST152DB/ 4 CREDITS / 5 PERIODS

MICROSOFT WINDOWS 2003 SERVER

Knowledge and skills necessary to install, configure, customize, optimize, network, integrate, and troubleshoot Microsoft Windows 2003 Server. Preparation for Microsoft certification examination.

Prerequisites or Corequisites: Any MST150 course or permission of instructor.

MST155 / 3 CREDITS / 4 PERIODS

IMPLEMENTING WINDOWS NETWORK INFRASTRUCTURE

Knowledge and skills to install, configure, maintain, and support a Microsoft Windows network infrastructure. Prerequisites: or Corequisites: MST150, or any MST150++ course, or permission of Instructor. Course Notes: Preparation for Microsoft certification examination.

MST155DB/ 4 CREDITS / 5 PERIODS

CONFIGURING ADVANCED WINDOWS SERVER SERVICES

In-depth exploration of how to effectively install and configure Windows Server.

Designed to prepare students for the Microsoft Configuring Advanced Windows Server Services examination (70-412).

Prerequisites: MST158++ or permission of Instructor. Course Notes: Recommend that prerequisite course completed was for the same version of Windows server as will be taught in this course.

MST157 / 3 CREDITS / 4 PERIODS

IMPLEMENTING WINDOWS DIRECTORY SERVICES

Knowledge and skills to install, configure, and administer Microsoft Windows Active Directory directory services. Prerequisites: Any MST+++ or any MST++++ Microsoft Technology course, or permission of Instructor. Course Notes: Preparation for Microsoft certification examination

MST157DB / 4 CREDITS / 5 PERIODS

ADMINISTERING WINDOWS SERVER

In-depth exploration of how to effectively manage Windows Server. Designed to prepare students for the Administering Microsoft Windows Server examination (70-411). Prerequisite: MST158++ or permission of Instructor. Course Notes: Recommend that prerequisite course completed was for the same version of Windows server as will be taught in this course.

MST158DB/ 4 CREDITS / 5 PERIODS

INSTALLING AND CONFIGURING WINDOWS SERVER

In-depth exploration of how to effectively install and configure Windows Server. Includes roles and features of Server, virtualization with Hyper-V, core network services, Active Directory, and Group Policy. Designed to prepare students for the corresponding Microsoft Windows Server Installation and Configuration examination (70-410). Prerequisites: (MST140 or CNT140++) and MST150++, or permission of Instructor.

MST170 / 4 CREDITS / 5 PERIODS

VISUAL BASIC DESKTOP APPLICATION DEVELOPMENT

Use of Visual Basic programming language to create database applications using Visual Data Access tools, ActiveX Controls, Component Objects, and Structured Query Language (SQL) Server database. Prerequisites: CIS159 or permission of instructor.

MST172 / 4 CREDITS / 5 PERIODS

VISUAL BASIC .NET WEB APPLICATION DEVELOPMENT

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: (CIS133DA, or CIS133AA and CIS133BA and CIS133CA) and CIS259, or permission of Instructor.

MST176 / 3 CREDITS / 4 PERIODS

VISUAL BASIC .NET XML WEB SERVICES DEVELOPMENT

Knowledge and skills required to develop XML Web Services and Server components with Microsoft.NET Framework with Visual Basic. Preparation for the MCAD (Microsoft Certified Applications Developer) certification examination. Prerequisites: CIS259 or permission of the instructor.

MST242 / 4 CREDITS / 5 PERIODS

MICROSOFT EXCHANGE SERVER

Knowledge and skills required to plan, implement, and administer Microsoft Exchange Server. Preparation for Microsoft certification examination. Prerequisites: Any MST152 course or permission of instructor.

MST244 / 3 CREDITS / 4 PERIODS

MICROSOFT SQL SERVER ADMINISTRATION

Knowledge and skills required to install,

configure, and administer Microsoft SQL server. Prerequisites: Any MST15+ course, or MST 15+++ course, or permission of Instructor. Course Notes: Preparation for Microsoft certification examination.

MST246 / 2 CREDITS / 3 PERIODS

IMPLEMENTING MICROSOFT INTERNET EXPLORER

Strong foundation in the architecture and key features of Microsoft Internet Explorer. Set up, configure, use, and deploy Internet Explorer in a network environment, with particular emphasis on intranet use. Prerequisites: Any MST152 course or permission of instructor. Knowledge of HTML suggested but not required.

MST254 / 3 CREDITS / 4 PERIODS

MICROSOFT SQL SERVER DESIGN AND IMPLEMENTATION

Knowledge and skills required to design and implement databases using Microsoft SQL server. Preparation for Microsoft certification examination. Prerequisites: CIS259, or any MST152 course, or permission of instructor.

MST259 / 3 CREDITS / 4 PERIODS

DESIGNING WINDOWS NETWORK SECURITY

Knowledge and skills to analyze business requirements and processes to design a security solution for a Microsoft Windows network. Prerequisites: or Corequisites: MST157, or any MST157++ course, or

permission of Instructor. Course Notes: Preparation for Microsoft certification examination

MST270 / 3 CREDITS / 4 PERIODS

MICROSOFT SOLUTION ARCHITECTURES

Knowledge and skills to analyze business requirements in a given scenario and define technical solution architectures to optimize business results using Microsoft development tools. Prerequisites: (ACC230 or GBS151) and MST170, or permission of instructor.

MTC - Music: Theory/Composition

MTC101 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO MUSIC THEORY

Designed to develop written and aural skills necessary for advanced study of music theory and skills. Recommended for music majors. Prerequisites: None.

MTC103 / 1 CREDIT / 2 PERIODS

INTRODUCTION TO AURAL PERCEPTION

An introduction to the aural skills necessary to hear relationships of intervals, rhythms, melody, and harmony in music. Prerequisites: None. Course Notes: MTC103 may be repeated for a total of two (2) credit hours.

MTC105 / 3 CREDITS / 3 PERIODS

MUSIC THEORY I

The chronological study of music theory including: harmony, melody, texture, structure and timbre through analysis, original compositions and basic exercises to demonstrate musical concepts. Prerequisites: MTC100, or MTC101, or permission of instructor. Corequisites: MTC106.

MTC106 / 1 CREDIT / 2 PERIODS

AURAL PERCEPTION I

The development of listening and performing skills through dictation, sight singing and keyboard harmony. Prerequisites: None. Corequisites: MTC105.

MTC130 / 3 CREDITS / 3 PERIODS

JAZZ THEORY

Develop written and aural theory skills necessary in the jazz idiom. Prerequisites: (MTC101 and MTC103), or permission of Instructor. Course Notes: MTC130 is recommended for students taking jazz improvisation, jazz composition and jazz combo.

MTC155 / 3 CREDITS / 3 PERIODS

MUSIC THEORY II

A continuation of Music Theory I with emphasis on harmony and part-writing procedures.

Prerequisites: MTC105. Corequisites: MTC156.

MTC156 / 1 CREDIT / 2 PERIODS

AURAL PERCEPTION II

A continuation of Aural Perception I, including harmonic practices. Prerequisites: None.

Corequisites: MTC155.

MTC205 / 3 CREDITS / 3 PERIODS

SUN MUS 2222

MUSIC THEORY III

The study of chromatic harmony and melody, modulation techniques and expanded chords. The analysis of formal structure. Prerequisites: MTC155. Corequisites: MTC206.

MTC206 / 1 CREDIT / 2 PERIODS

SUN MUS 2222

AURAL PERCEPTION III

A development of listening and performing skills, including an introduction of chromatic harmonic techniques and concepts of style. Prerequisites: None. Corequisites: MTC205.

MTC240 / 3 CREDITS / .6 PERIODS

COMPOSITION

Introduction to the basics of music composition, stressing techniques and procedures for developing original ideas.

May be repeated for total of twelve (12) credit hours. Prerequisites: (MTC105 and MTC106, or equivalent), and permission of instructor.

MTC255 / 3 CREDITS / 3 PERIODS

SUN MUS 2223

MUSIC THEORY IV

A continuation of Music Theory III, including

20th century theories and techniques. Prerequisites: MTC205. Corequisites: MTC256.

MTC256 / 1 CREDIT / 2 PERIODS

SUN MUS 2223

AURAL PERCEPTION IV

A continuation of Aural Perception III, including extended chords. Prerequisites: None. Corequisites: MTC255.

MUC - Music: Commercial/Business

MUC109 / 3 CREDITS / 3 PERIODS

MUSIC BUSINESS: MERCHANDISING AND THE LAW

Operation, scope, and career opportunities in the music business. Focuses on music in the marketplace, songwriting, publishing, copyright procedures, and business affairs, agents, artist management, and concert production. Prerequisites: None.

MUC110 / 3 CREDITS / 3 PERIODS

MUSIC BUSINESS: RECORDING AND MASS MEDIA

The operation, scope, and career opportunities in the music business. Focuses on the record industry; environmental music; uses of music in radio, telecommunications, and film; and career options. Prerequisites: None.

MUC111 3 CREDITS / 5 PERIODS

DIGITAL AUDIO WORKSTATION I (DAW I)

Use of digital mixing and automation software in conjunction with editing and recording. Includes computer operation, troubleshooting, and file management. Prerequisites: MUC195, or MUC195AA, or TCM/VPT105, or permission of Instructor.

MUC112 / 3 CREDITS / 5 PERIODS

DIGITAL AUDIO WORKSTATION II (DAW II)

Use of digital mixing and automation software in conjunction with editing and recording. Includes computer operation, troubleshooting, and file management. Prerequisites: MUC111, and (MUC195 or MUC195AA).

MUC195 3 CREDITS / 5 PERIODS

STUDIO MUSIC RECORDING I

Basic principles of studio sound recording. Emphasis on musical acoustics, operation of recording equipment, studio setups, and multitrack recording. Includes studio session process and musical production decisions. Prerequisites: None.

MUC196 3 CREDITS / 5 PERIODS

STUDIO MUSIC RECORDING II

Emphasis on signal-processing equipment, mixing consoles, and advanced musical recording session procedures, production, and engineering. Includes mix-down and resultant master tape of a musical recording

session. Prerequisites: MUC195 or MUC195AA. For the most current information regarding course descriptions, log on to www.maricopa.edu/academic/ccta.

1 CREDIT MUC290AA/ 1 PERIOD

MUSIC BUSINESS INTERNSHIP

Music Business Internship work experience. Perform a variety of activities, to fulfill the routines and responsibilities of the department or business where the internship is served. Eighty (80) hours of designated work per credit. Prerequisites: Permission of Department or Division. Course Notes: MUC290AA may be repeated for a total of twelve (12) credit hours.

MUC293 1 CREDIT 1 PERIOD

SELF PROMOTION FOR MUSIC

Career goal development. Includes selfpresentation and communication skills, keeping files and records, and developing self-promotional materials. Prerequisites: None.

MUC297AB/ 2 CREDITS / 2 PERIODS

MUSIC INTERNSHIP

Music Internship work experience in a business or industry eighty (80) hours of designated work per credit. A maximum of 12 credits allowed. Prerequisites: MUC110.

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MUE - Music: Education

2 CREDITS / 3 PERIODS **MUE235**

PERCUSSION METHODS I

Practical class with emphasis on techniques

of playing and teaching percussion instruments including hand position, rudiments, stick control, and elements of reading rhythms Prerequisites: None.

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MUP - Music: Performance

MUP101	/	1 CREDIT	/	.6 PERIOD
MUP151	1	1 CREDIT	1	.6 PERIOD
MUP201	/	1 CREDIT	/	.6 PERIOD
MUP251	/	1 CREDIT	/	.6 PERIOD

PRIVATE INSTRUCTION: EUPHONIUM

Private Instruction emphasizing developmental improvement of musicianship and technique from an entering skill level. Four course sequence required of all music majors meeting departmental requirements. Instruction provided on voice, piano, harpsichord, organ, guitar, trumpet, French horn, trombone, baritone horn, tuba, flute, oboe, clarinet, bassoon, saxophone, violin, viola, violoncello, contrabass, bass guitar, percussion, and harp. May be repeated for credit. Prerequisites: None.

MUP102	/	2 CREDITS / 1.2 PERIODS	
MUP152	/	2 CREDITS /1.2 PERIODS	
MUP202	/	2 CREDITS /1.2 PERIODS	
MUP252	/	2 CREDITS /1.2 PERIODS	

PRIVATE INSTRUCTION

Private Instruction emphasizing musicianship, literature, technique and performance. Four course sequence designed for university transfer equivalency. Instruction provided on voice, piano, harpsichord, organ, guitar, trumpet, French horn, trombone, baritone horn, tuba, flute, oboe, clarinet, bassoon, saxophone, violin, viola, violoncello, contrabass, bass guitar, percussion, and harp. May be repeated for credit. Prerequisites: None.

MUP131 / 2 CREDITS / 3 PERIODS

CLASS PIANO I

Development of beginning piano techniques and the fundamentals of music including basic hand position, music reading skills of melodic and harmonic material, major scales, transposition, and harmonizations including the I, IV, V7 chords. Prerequisites: None.

MUP132 / 2 CREDITS / 3 PERIODS

CLASS PIANO II

Continuation of Piano I with emphasis on elementary piano techniques including major and minor scales, transposition, improvisation, and sight reading. Prerequisites: MUP131 or permission of instructor.

MUP133 / 2 CREDITS / 3 PERIODS

CLASS VOICE I

Introduction to the fundamentals of vocal production. Emphasis on breathing techniques, tone production and performances in class of solo vocal literature. Prerequisites: None.

MUP134 / 2 CREDITS / 3 PERIODS

CLASS VOICE II

Continuation of Class Voice I including the

elements of stage presence and diction. Prerequisites: MUP133 or permission of instructor.

MUP150 / 1 CREDIT / 3 PERIODS

COMMUNITY CHORUS

A mixed chorus with emphasis on college/ community participation and preparation of a variety of choral literature for public performance. Auditions may be required. May be repeated for credit. Prerequisites: None.

MUP153 / 2 CREDITS / 5 PERIODS

CONCERT CHOIR

A mixed choir designed to emphasize choral techniques and performance of all styles of choral literature. Public performances are scheduled each semester. Prerequisites:

None. Course Notes: Auditions may be required. MUP153 may be repeated for credit.

MUP154AA / 1 CREDIT / 3 PERIODS

JAZZ VOCAL ENSEMBLE

Practical and performing experience in vocal jazz. Includes music from the 1920's through the present. Prerequisites: Auditions required or permission of instructor. Course Note: May be repeated for up to three (3) credits.

MUP159 / 1 CREDIT / 3 PERIODS

COMMUNITY ORCHESTRA

Emphasis on college/community participation and the preparation of orchestral literature

for public performance. Auditions may be required. May be repeated for credit. Prerequisites: None.

MUP161 / 1 CREDIT / 3 PERIODS

COMMUNITY BAND

Emphasis on college/community participation and the preparation of band literature for public performance. Auditions may be required. May be repeated for credit. Prerequisites: None.

MUP162 / 2 CREDIT / 5 PERIODS

BAND

A class designed to emphasize instrumental techniques and the preparation of all styles of band literature. Public performances are scheduled during the year. Auditions may be required. Prerequisites: None. Course Notes: MUP162 may be repeated for credit.

MUP163 / 1 CREDIT / 3 PERIODS

JAZZ ENSEMBLE

Practical and performance experience in various jazz styles. Open to all students on the basis of auditions. May be repeated for credit. Prerequisites: None.

MUP164 / 2 CREDITS / 3 PERIODS

JAZZ IMPROVISATION I

Theoretical and performance skills in many styles of jazz improvisation. May be repeated for a total of six (6) credit hours. Prerequisites: None.

MUP181 / 1 CREDIT / 2 PERIODS

CHAMBER MUSIC ENSEMBLES

Practical and performance experience in instrumental, vocal, and mixed ensembles. May be repeated for credit. Prerequisites: None.

MUP182 / 1 CREDIT / 3 PERIODS

CHAMBER SINGERS

Practical and performance experience in various styles of vocal music. Open to all students on the basis of auditions. May be repeated for credit. Prerequisites: None.

MUP209 / 2 CREDITS / 2 PERIODS

ELEMENTS OF CONDUCTING

Essentials of conducting techniques used in choral and instrumental ensembles including terminology, interpretation, and styles.

Prerequisites: None.

MUP217 / 2 CREDITS / 3 PERIODS

MUSIC THEATRE: BROADWAY SOLOS

Study and in-class performance of scenes and solos from Broadway musical literature. Prerequisites: None. Course Notes: MUP217 may be repeated for credit.

MUP225 / 2 CREDITS / 3 PERIODS

CLASS GUITAR I

Emphasis on note-reading and folk-style harmonic accompaniment. Includes fingerstyle playing. Stresses development of efficient practice techniques and proper sitting and hand positions. Prerequisites: None.

MUP226 / 2 CREDITS / 3 PERIODS

CLASS GUITAR II

Note-reading range including second position and parts of higher positions. Classical, popular, Latin, and other styles of music. Theory including scales, keys, and chord construction. Technical exercises of both hands. Prerequisites: MUP225 or permission of instructor.

MUP227 / 2 CREDITS / 3 PERIODS

CLASS GUITAR III

Additional fingerboard positions. Ensemble techniques and performance. Prerequisites: MUP226 or permission of instructor.

MUP228 / 2 CREDITS / 3 PERIODS

CLASS GUITAR IV

Advanced fingerboard positions. Duet and trio performances. Advanced ensemble techniques. Prerequisites: MUP227 or permission of instructor.

MUP231 / 2 CREDITS / 3 PERIODS

CLASS PIANO III

Development of intermediate piano techniques including selected solo literature, transposition of harmonic patterns, and secondary dominants. Prerequisites: MUP132 or permission of instructor.

MUP232 / 2 CREDITS / 3 PERIODS

CLASS PIANO IV

Continuation of Piano III including modulation techniques, improvisation of piano accompaniments, advanced chromatic harmony, and sight reading of advanced literature. Prerequisites: MUP231 or permission of instructor.

MUP233 / 2 CREDITS / 3 PERIODS

CLASS VOICE III

Interpretive singing through a closer examination of coloring, tone production, dynamics, and tempo indications.

Prerequisites: MUP134.

MUP234 / 2 CREDITS / 3 PERIODS

CLASS VOICE IV

Emphasis on the preparation of solo vocal literature for the purpose of evaluation and the integration of the music with the drama of the music. Prerequisites: MUP233 or permission of instructor.

MUP270 / 2 CREDITS / 5 PERIODS

MUSICAL THEATRE WORKSHOP

Workshop in the study and performance of Musical Theatre repertoire. Including audition techniques, talent evaluation criticism, rehearsal techniques, vocal acting styles, stage movement, and performance. May be repeated for credit. Prerequisites: None.

NCE - Nursing Continuing Education

NCE214MI / .5 CREDITS / .5 PERIODS

MATH AND MEDICATIONS FOR INTERMEDIATE NURSING STUDENTS

Focus on basic mathematical concepts to calculate metric- apothecary conversion, dosage problems, intravenous flow rates using the ratio/proportion and dimensional analysis methods. These calculations will focus application to acute care, long-term care, and pediatric specialty areas. Prerequisites: Current student in Nursing program or permission of Department or Division.

NUR - Nursing Science: Basic

NUR104AB / 1 CREDIT / 1 PERIOD

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STRUCTURED NURSING REVIEW

Structured nursing tutorial assistance and nursing study skills to help students achieve success in their respective block of nursing courses. Nursing process and critical thinking application skills emphasized. Prerequisites: None. Corequisites: Concurrent enrollment in the Nursing program or permission of Department Chair. Course Notes: Course offered as Credit (P) No credit (Z) basis. NUR104AB may be repeated for a total of eight (8) credits.

NUR152 / 9 CREDITS / 19 PERIODS

NURSING THEORY AND SCIENCE I

Introduction of Nurse of the Future competencies as a foundational framework for development of the professional nurse. Basic care concepts and the nursing process are utilized to meet the needs of adult and older adult patients. Prerequisites: Admission into the Nursing Program.

NUR172 / 9 CREDITS / 16 PERIODS

NURSING THEORY AND SCIENCE II

Utilization of Nurse of the Future competencies to develop knowledge, skills, and attitudes to provide safe, quality patient care across the wellness-illness continuum in selected medical-surgical and mental health patients. Prerequisites: (BIO202 and NUR152) or permission of Nursing Department Chair.

NUR252 / 9 CREDITS / 16 PERIODS

NURSING THEORY AND SCIENCE III

Application of critical thinking strategies related to holistic care of the newborn and childbearing patients. Integration of concepts related to holistic care of adults and older adult patients with selected acute and chronic alterations in health. Integration of professional nursing standards in role development. Utilization of previous knowledge of physical, biologic, psycho-social sciences, and the cultural, spiritual aspects of nursing care. Integration of concepts of nutrition, pharmacology, communication, health promotion, and pathophysiology

into nursing care. Prerequisites: (CRE101 and NUR172 and PSY101) or permission of Nursing Department Chair.

NUR283 / 9 CREDITS / 16 PERIODS

NURSING THEORY AND SCIENCE IV

Applies Nurse of the Future competencies to practice and manage care for the child/family unit and adults requiring complex care throughout the wellness/illness continuum, and prepare for transition from student to professional nurse. Prerequisites: (BIO205 and NUR252) or permission of Nursing Department Chair.

OAS - Office Automation Systems

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OAS108 / 3 CREDITS / 3 PERIODS

BUSINESS ENGLISH

Comprehensive coverage of correct use of English grammar including spelling, punctuation, capitalization, and number style mechanics in a business context. Prerequisites: None.

PAD - Public Administration

PAD100 / 3 CREDIT / 3 PERIODS

21ST CENTURY PUBLIC POLICY AND SERVICE

Introduction to topics pertaining to public

policy and public service in the 21st century. Includes formation, implementation, and evaluation procedures for public policy, as well as roles and agendas of policy makers and public administrators. Also covers careers in public service/administration and an evaluation of essential skills necessary for a career in public service. Prerequisites: None.

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PED - Physical Education

PED101 / 1 CREDIT / 2 PERIODS

PHYSICAL ACTIVITIES: BASIC

Individual, dual, or team sports activities at the basic level. Prerequisites: None. Course Notes: PED101 may be repeated for credit.

PED102 / 1 CREDIT / 2 PERIODS

PHYSICAL ACTIVITIES: INTERMEDIATE

Individual, dual, or team sports activities at the intermediate level. Prerequisites: None. Prior experience recommended.

PED103 / .5 CREDITS / 1 PERIOD

PHYSICAL ACTIVITIES: BASIC

Individual, dual, or team sports activities at the basic level. Prerequisites: None. Course Notes: PED103 may be repeated for credit.

PED115 / 2 CREDITS / 4 PERIODS

LIFETIME FITNESS

Increase personal fitness, strength, and vitality. Current principles of cardiovascular

exercise, weight training, flexibility, and balance exercises applicable to lifetime fitness goals. Personalized fitness plans developed and implemented with support of highly trained fitness professionals. Techniques to make sessions more effective and enjoyable. Prerequisites: None. Course Note: PED115 may be repeated for a total of eight (8) credit hours.

PED117 / 2 CREDITS / 4 PERIODS

WEIGHT TRAINING FOR WELLNESS

Strength training and muscular fitness activity to help develop a lifetime of regular exercise and muscular strength maintenance. Development of full body strength and stability of the body's core musculature, translating to increased power, balance, and functional movement ability including assessment of current strength and goal-specific program design to increase strength and muscular fitness. Prerequisites: None. Course Notes: PED117 may be repeated for a maximum of eight (8) credits.

PED120AF / 2 CREDITS / 4 PERIODS

SPECIAL EMPHASIS ACTIVITIES: WEIGHT TRAINING

Intensive experience in weight training. May be repeated for a total of 8 credits. Prerequisites: None.

PED121 / 1 CREDIT / 2 PERIODS

PHYSICAL CONDITIONING FOR MASSAGE THERAPISTS

Physical fitness necessary for current and prospective massage therapists. Includes physical fitness and workout techniques as related to performing massage therapy; individual conditioning strategies, and basic nutritional guidelines. Prerequisites: None.

PED124 / 2 CREDITS / 4 PERIODS

STRENGTH AND CONDITIONING FOR SPORT PERFORMANCE: BASIC

Introduction to the principles and training techniques of strength and conditioning for sport performance. Emphasis is placed on beginning instructional techniques and safety of Olympic lifts; plyometrics; muscular endurance, strength and power development; anaerobic and aerobic capacity. Prerequisites: None. Course Notes: PED124 may be repeated for a total of eight (8) credit hours.

PED125 / 2 CREDITS / 4 PERIODS

STRENGTH AND CONDITIONING FOR SPORT PERFORMANCE: INTERMEDIATE

Principles and training techniques of strength and conditioning for sport performance. Emphasis is placed on instructional techniques and safety of Olympic lifts; plyometrics; muscular endurance, strength and power development; anaerobic and aerobic capacity. Prerequisites: PED124. Course Notes: PED125 may be repeated for a total of eight (8) credit hours.

PED133 / 2 CREDITS / 4 PERIODS

OLYMPIC STYLE WEIGHT LIFTING

Advanced study of the science, strategy, and techniques of Olympic Style Weightlifting. For the fitness professional who is interested in competing, or is seeking to incorporate advanced strength and conditioning modalities. Addresses current topics, theories and techniques. Prerequisites: None.

PED201 / 1 CREDIT / 2 PERIODS

PHYSICAL ACTIVITIES: ADVANCED

Individual, dual, or team sports activities at the advanced level. Prerequisites: None. Prior experience at competitive level recommended. Course Notes: PED201 may be repeated for credit.

PED224 / 2 CREDITS / 4 PERIODS

STRENGTH AND CONDITIONING FOR SPORT PERFORMANCE: ADVANCED

Principles and training techniques of strength and conditioning for sport performance. Emphasis placed on instructional techniques and safety of Olympic lifts; plyometrics; muscular endurance, strength and power development; anaerobic and aerobic capacity; and injury prevention. Prerequisites: PED124 and PED125. Course Notes: PED224 may be repeated for a total of eight (8) credit hours.

PED225 / 2 CREDITS / 4 PERIODS

STRENGTH AND CONDITIONING FOR SPORT PERFORMANCE: ELITE

Principles and training techniques of strength and conditioning for sport performance. Emphasis placed on instructional techniques and safety of Olympic lifts; plyometrics; muscular endurance, strength and power development; anaerobic and aerobic capacity; injury prevention; and assessment techniques. Prerequisites: PED124, PED125, and PED224. Course Notes: PED225 may be repeated for a total of eight (8) credit hours.

PHI - Philosophy

PHI101 / 3 CREDITS / 3 PERIODS

SUN PHI 1101

INTRODUCTION TO PHILOSOPHY

General consideration of human nature and the nature of the universe. Knowledge, perception, freedom and determinism, and the existence of God. Prerequisites: None.

PHI103 / 3 CREDITS / 3 PERIODS

SUN PHI 1103

INTRODUCTION TO LOGIC

Informal logic, logical fallacies, elementary symbolic logic, analysis of argument forms, and construction of proofs for validity.

Prerequisites: ENG101 or ENG107 or equivalent.

PHI104 / 3 CREDITS / 3 PERIODS

WORLD PHILOSOPHY

Examination of questions such as the meaning of life and death, social justice, appearance and reality, human nature, the identity of the self freedom and destiny, the ethical life, and the relationship of science and religion. Comparative analysis of diverse Eastern and Western viewpoints. Prerequisites: None.

PHI105 / 3 CREDITS / 3 PERIODS

SUN PHI 1105

INTRODUCTION TO ETHICS

A survey of ethical theory in Western Philosophy, including the major normative theories and selected metaethical theories. Prerequisites: None.

PHI214 / 3 CREDITS / 3 PERIODS

BUSINESS ETHICS

Philosophical consideration of moral problems arising in business practice, including corporate responsibility, government regulation, hiring practices, and advertising. Application to both the United States and other countries. Prerequisites: ENG101, or ENG107, or equivalent.

PHI216 / 3 CREDITS / 3 PERIODS

ENVIRONMENTAL ETHICS

Philosophical consideration of diverse theories and perspectives on the environment, and application of these theories to global moral issues such as animal rights, preservation of wilderness and species, population, world hunger and poverty, and air and water pollution. Prerequisites: None.

PHI218 / 3 CREDITS / 3 PERIODS

PHILOSOPHY OF SEXUALITY

Philosophical examination of sexuality in human life. Historical and critical survey of philosophical and theological views.

Comparison and evaluation of contemporary theories about the nature of sexual desire and sexual acts. Implications of theories for contemporary moral problems. Prerequisites: ENG101, or ENG107, or permission of Instructor. Student must be 18 years or older.

PHY - Physics

PHY101 / 4 CREDITS / 6 PERIODS

INTRODUCTION TO PHYSICS

A survey of physics emphasizing applications of physics to modern life. Prerequisites: Grade of "C" or better in MAT090, or MAT091, or MAT092, or MAT093, or equivalent, or satisfactory score on Math Placement exam.

PHY111 / 4 CREDITS / 6 PERIODS

SUN PHY 1111

GENERAL PHYSICS I

Includes motion, energy, and properties of matter. Prerequisites: MAT182 or MAT187 or one year high school Trigonometry with a grade of C or better or permission of Department or Division Course Notes: PHY111

is recommended for preprofessional and suggested for certain other majors. Students may receive credit for only one of the following: PHY111 or PHY111AA.

PHY112 / 4 CREDITS / 6 PERIODS

SUN PHY 1112

GENERAL PHYSICS II

Includes electricity, electromagnetism, and modern physics. Prerequisites: PHY105 or PHY111.

PHY121 / 4 CREDITS / 6 PERIODS

SUN PHY 1121

UNIVERSITY PHYSICS I: MECHANICS

Kinematics, Newton's laws, work, energy, momentum, conservation laws, dynamics of particles, solids, fluids, mechanical waves, and sound. Prerequisites: MAT220, or MAT221, or permission of Department or Division. One year of High School physics or PHY111 and PHY112 suggested but not required.

PHY131 / 4 CREDITS / 6 PERIODS

SUN PHY 1131

UNIVERSITY PHYSICS II: ELECTRICITY AND MAGNETISM

Electric charge and current, electric and magnetic fields in vacuum and in materials, and induction. AC circuits, displacement current, and electromagnetic waves.

Prerequisites: MAT230 or MAT231 or permission of Department or Division and PHY121 Corequisites: MAT241 or permission of Department or Division.

PHY294 / 3 CREDIT / 3 PERIODS

SPECIAL TOPICS IN PHYSICS

Conceptual, experimental, and computational aspects of a special topic in physics.

Prerequisites: Permission of Department or Division. Course Notes: PHY294 may be repeated for credit.

PHY294AA / 2 CREDIT / 2 PERIODS

SPECIAL TOPICS IN PHYSICS

Conceptual, experimental, and computational aspects of a special topic in physics.

Prerequisites: Permission of Department or Division. Course Notes: PHY294AA may be repeated for credit.

PHY294AB / 1 CREDIT / 1 PERIOD

SPECIAL TOPICS IN PHYSICS

Conceptual, experimental, and computational aspects of a special topic in physics.

Prerequisites: Permission of Department or Division. Course Notes: PHY294AB may be repeated for credit.

PHY294AC / 0.5 CREDIT / 0.5 PERIODS

SPECIAL TOPICS IN PHYSICS

Conceptual, experimental, and computational aspects of a special topic in physics.

Prerequisites: Permission of Department or Division. Course Notes: PHY294AC may be repeated for credit.

POS - Political Science

POS100 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO POLITICAL SCIENCE

Introduction to the discipline of political science and its relation to other disciplines with emphasis on the major philosophies and institutions of government. Prerequisites: None.

POS110 / 3 CREDITS / 3 PERIODS

SUN POS 1110

AMERICAN NATIONAL GOVERNMENT

Study of the historical backgrounds, governing principles, and institutions, of the national government of the United States. Prerequisites: None.

POS120 / 3 CREDITS / 3 PERIODS

SUN POS 1120

WORLD POLITICS

Introduction to the principles and issues relating to the study of international relations. Evaluation of the political, economic, national, and transnational rationale for international interactions. Prerequisites: None.

POS180 / 3 CREDITS / 3 PERIODS

UNITED NATIONS STUDIES

Historical origins, structural makeup, political and operational characteristics, and legal activities of the United Nations. Analysis of the overall institution's ongoing utility, productivity and creativity. Prerequisites: None.

POS210 3 CREDITS / 3 PERIODS

POLITICAL IDEOLOGIES

Survey of twentieth century nondemocratic ideologies and movements with emphasis on Marx, Lenin, Mussolini, Hitler, Stalin and Mao. Prerequisites: None.

POS220 3 CREDITS / 3 PERIODS

U.S. AND ARIZONA CONSTITUTION

Examination of the United States Constitution and the constitution and government of the State of Arizona. Prerequisites: None.

POS221 1 CREDIT 1 PERIOD

ARIZONA CONSTITUTION

Examination of the Constitution of the State of Arizona. Equivalent to the second part of POS220. May not enroll in POS220 and POS221 concurrently. Prerequisites: None.

POS222 2 CREDITS / 2 PERIODS

U.S. CONSTITUTION

Examination of the United States Constitution. Equivalent to the first part of POS220. May not enroll in POS220 and POS222 concurrently. Prerequisites: None.

POS223 3 CREDITS / 3 PERIODS

CIVIL RIGHTS

The historic background and current status of major civil rights issues in the United States.

Prerequisites: None.

3 CREDITS / 3 PERIODS **POS285**

POLITICAL ISSUES AND **PUBLIC POLICY**

Introduction to public policy, how policy is made, and how public policy decisions are affected.Prerequisites: None.

PPT - Power Plant **Technology**

PPT120 3 CREDITS / 3 PERIODS

ENERGY INDUSTRY FUNDAMENTALS

Various types of energy and their conversion to useable energy such as electrical power. How generated electrical power is transmitted and distributed to the point of use.

Prerequisites: None.

PSY - Psychology

PSY101 3 CREDITS / 3 PERIODS

SUN PSY 1101

INTRODUCTION TO PSYCHOLOGY

To acquaint the student with basic principles, methods and fields of psychology such as learning, memory, emotion, perception, physiological, developmental, intelligence, social and abnormal. Prerequisites: None.

PSY123 3 CREDITS / 3 PERIODS

PSYCHOLOGY OF PARENTING

The demonstration and application of psychological principles to the development

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and guidance of children and adolescents. Prerequisites: None.

PSY132 / 3 CREDITS / 3 PERIODS

PSYCHOLOGY AND CULTURE

Presents current knowledge about human diversity in behavior and culture using examples from a variety of contexts within western and global societies. Highlights topics in cross-cultural psychology, such as intergroup relations, diverse cognitive styles, ethnocentrism, gender, personality, emotion, language, communication, work and health. The role of enculturation throughout the lifespan will be explored to increase awareness of how behavioral and cognitive principles affect interactions in a multicultural world. Prerequisites: None.

PSY210 / 3 CREDITS / 3 PERIODS

EDUCATIONAL PSYCHOLOGY

Scientific research and psychological principles as they apply to teaching and learning. The role of psychology in educational settings, human diversity, theories of learning, intelligence, memory, creativity, assessment, and factors influencing effective instruction and learning. Prerequisites: PSY101 with a grade of "C" or better or permission of instructor.

PSY215 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO SPORT PSYCHOLOGY

Application of the physiological, behavioral, social, cognitive, and humanistic perspectives

in psychology to sport. Includes topics such as optimal performance, correlation, motivation, co-action effect, self-actualization, psychobehavioral techniques, self-efficacy, and the general health benefits of sport participation. Prerequisites: PSY101 with a grade of "C" or better or permission of instructor.

PSY230 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO STATISTICS

An introduction to basic concepts in descriptive and inferential statistics, with emphasis upon application to psychology. Consideration given to the methods of data collection, sampling techniques, graphing of data, and the statistical evaluation of data collected through experimentation. Required of psychology majors. Prerequisites: (A grade of "C" or better in PSY101 and MAT092 or higher MAT course) or (a grade of "C" or better in PSY101 and eligibility for MAT112 or higher as indicated by appropriate mathematics placement test score) or permission of Instructor.

PSY231 / 1 CREDIT / 2 PERIODS

LABORATORY FOR STATISTICS

Applications of inferential and descriptive statistics to computers in the field of psychology. Prerequisites: None. Corequisites: PSY230.

PSY235 / 3 CREDITS / 3 PERIODS

PSYCHOLOGY OF GENDER

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 / 3 CREDITS / 3 PERIODS

DEVELOPMENTAL PSYCHOLOGY

Human development from conception through adulthood. Includes: physical, cognitive, emotional and social capacities that develop at various ages. Recommended for students majoring in nursing, education, premed, and psychology. Prerequisites: PSY101 with a grade of "C" or better or permission of the instructor.

PSY241 / 3 CREDITS / 3 PERIODS

UNDERSTANDING AND CHANGING BEHAVIOR

Theory and methods for observing, analyzing, and modifying behavior. Prerequisite or Corequisites: PSY101 or permission of Instructor. Course Note: Taking PSY101 as a prerequisite is recommended.

PSY242 / 3 CREDITS / 4 PERIODS

UNDERSTANDING AND CHANGING BEHAVIOR LAB

Advanced course designed to enable students to apply the principles of applied behavior analysis (ABA) in a supervised lab setting. Incorporates case studies and hands-on employment of best practices. Also includes practice with behavioral research design and implementation. Reviews current

research in areas including, but not limited to, schedules of reinforcement, functional behavior assessment, stimulus discrimination and generalization. Course should be taken if applying for certification as a Registered Behavior Technician (RBT). Prerequisites: PSY241. Course Notes: Supervision hours by a Board Certified Behavior Analyst required for certification will be available in this course.

PSY266 / 3 CREDITS / 3 PERIODS

ABNORMAL PSYCHOLOGY

Distinguishes between normal behavior and psychological disorders. Subjects may include stress disorders, problems with anxiety and depression, unusual and abnormal sexual behavior, schizophrenia and addictive behaviors. Causes and treatments of psychological problems and disorders are discussed. Prerequisites: PSY101 with a grade of "C" or better, or permission of instructor.

PSY267 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO FORENSIC PSYCHOLOGY

Overview of the practice of psychology in the law, by the law, and of the law. Focuses on the complementary functions and distinctions between psychology and the legal justice system. Topics include, but are not limited to, criminal investigations, risk and level of danger, competency, interrogations, confessions, assessment, eyewitness testimony, child custody, and domestic violence. Prerequisites: PSY101.

PSY270 / 3 CREDITS / 3 PERIODS

PERSONAL & SOCIAL ADJUSTMENT

Surveys the basic mental health principles as they relate to coping with stress, interpersonal relationships, sex, marriage, and working. Emphasis on learning to become a more competent and effective person.

Prerequisites: PSY101 with a grade of "C" or better or permission of the instructor.

PSY290AB / 4 CREDITS / 6 PERIODS

RESEARCH METHODS

Planning, execution, analysis, and written reporting of psychological research. Surveys the literature, procedures, and instruments in representative areas of psychological research. Prerequisites: ENG101, ENG107 or equivalent. Prerequisites or Corequisites: PSY230 (or equivalent) with a grade of "C" or better, or permission of instructor.

PSY290AC / 4 CREDITS / 5 PERIODS

RESEARCH METHODS

Planning, execution, analysis, and written reporting of psychological research. Surveys the literature, procedures, and instruments in representative areas of psychological research. Prerequisites: ENG101, ENG107 or equivalent. Prerequisites or Corequisites: PSY230 (or equivalent) with a grade of "C" or better, or permission of instructor.

RDG - Reading

RDG081 / 3 CREDITS / 3 PERIODS

READING IMPROVEMENT

Designed to improve basic reading skills. Includes word recognition, interdisciplinary vocabulary development, recognizing patterns of organization, interpreting inference. Reviews interpreting graphic materials. Emphasis on identifying main ideas and related details. Prerequisites: Appropriate reading placement test score, or grade of "C" or better in RDG071, or permission of Instructor.

RDG100 / 3 CREDITS / 3 PERIODS

SUCCESSFUL COLLEGE READING

Emphasis on reading study strategies for any introductory class in any subject area. Introduction to Learning Management System (LMS), how to successfully read course textbooks and assessments, how to navigate information technology and development of academic vocabulary. Prerequisites: A grade of C or better in RDG081 or appropriate reading placement score or permission of Instructor. Corequisites: Any 100-level course in another content area or permission of Instructor. Course Notes: RDG100 satisfies RDG091 requirement. RDG100 may be repeated for a total of twelve (12) credit hours.

ALSO SEE CRITICAL READING (CRE).

REC - Recreation

REC120 / 3 CREDITS / 3 PERIODS

LEISURE AND THE QUALITY OF LIFE

Overview of the historical, psychological, social, and cultural aspects of play, leisure, and recreation and their role in contemporary society. Nature of play and leisure behavior in human development within different cultures and the contribution play, recreation, and leisure make to the quality of life for individuals in today's society. Prerequisites: None.

REC150AA / 1 CREDIT / 2 PERIODS

OUTDOOR LIVING SKILLS FIELD EXPERIENCE

Practical application of camping and outdoor skills including camping, equipment selection and use, cooking, fire building, camp programs, backpacking, and safety.

Prerequisites: None. Course Note: Course may be repeated for a total of four (4) credits.

REC150AB / 3 CREDITS / 3 PERIODS

OUTDOOR ADVENTURE SKILLS

Camping and outdoor skills including types of camping, equipment selection and use, cooking and fire building, camp programs, backpacking, and safety. Prerequisites: None.

REC250 / 3 CREDITS / 3 PERIODS

RECREATION LEADERSHIP

An examination of roles and methods of leadership in leisure services settings.

Overview of theories and models of leadership, group dynamics, participant motivation, communication, and face-to-face leadership. Exploration of leadership contexts, including coaching and officiating sports, leading community groups and volunteers, working with persons in various life stages and with varying abilities, and leading different recreation activity areas. Prerequisites: None.

REL - Religious Studies

REL100 / 3 CREDITS / 3 PERIODS

WORLD RELIGIONS

The development of various religions from the prehistoric to modern times. Political, economic, social and geographic relationships among world religions. Consideration of both Eastern and Western religions Prerequisites: None.

REL203 / 3 CREDITS / 3 PERIODS

AMERICAN INDIAN RELIGIONS

An examination of the historical and cultural background of diverse lifeways and worldviews belonging to the peoples indigenous to the North American continent over time, including a study of modern day American Indian beliefs and practices. Prerequisites: ENG101 or ENG107 or equivalent.

REL205 / 3 CREDITS / 3 PERIODS

RELIGION AND THE MODERN WORLD

Introduction to the nature and role of religious beliefs and practices in shaping the lives of individuals and societies, with particular attention to the modern world. Prerequisites: ENG101, or ENG107, or equivalent.

REL206 / 3 CREDITS / 3 PERIODS

RELIGION IN AMERICA

Introduction of the rich tapestry of religious traditions and movements that have helped to shape the United States of America.

Investigate how religion has impacted American culture and institutions, and how the United States has in turn transformed long-standing religious traditions.

Prerequisites: None.

REL207 / 3 CREDITS / 3 PERIODS

RITUAL, SYMBOL, AND MYTH

Introduction to the academic study of religion through the study of myths, symbols, and rituals. Includes methods and theories used by scholars to study the complex subject of religion. Attention to literate and nonliterate cultures. Prerequisites: Grade of C or better in ENG101, or ENG107, or permission of Department or Division.

REL270 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO CHRISTIANITY

The nature and content of the Christian tradition developed over time, with overview

of the New Testament, major historical trends and figures, major Christian ideas and practices, and survey of denominations. Prerequisites: None.

REL290 / 3 CREDITS / 3 PERIODS

WOMEN AND WORLD RELIGION

Focus on the role of women in several organized religions and/or religious sects. Study of myth and symbols as they are used to establish, maintain, and enforce sex-roles within specific cultural contexts around the world. Prerequisites: None.

SBS - Small Business Management

SBS213 / 1 CREDITS / 1 PERIODS

HIRING AND MANAGING EMPLOYEES

Methods and techniques for managing employees in a small business. Includes supervisor's role, leadership styles, interpersonal communications, staff planning, employee work styles, techniques for handling problem employees, and employee motivation. Focuses on real life situations to enable the business owner to gain high performance from their employee team. Includes segment on hiring, new employee orientation, training, benefits, and developing future staffing needs assessment. Prerequisites: None.

SBS214 / 1 CREDITS / 1 PERIODS

SMALL BUSINESS CUSTOMER RELATIONS

Developing and improving customer relations for the small business. Planning and delivering quality customer service. Includes topics on attitude of employees, customer perceptions and motivations, handling customer dissatisfaction, and developing customer, supplier, vendor, and distributor loyalty. Prerequisites: None.

SBS220 / 2 CREDITS / 2 PERIODS

INTERNET MARKETING FOR SMALL BUSINESS

Focuses on "e-Commerce"-doing business on the Internet and planning a website. 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.

SBS230 / 2 CREDITS / 2 PERIODS

FINANCIAL AND TAX MANAGEMENT FOR SMALL BUSINESS

An overview of accounting and recordkeeping 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 the choice of legal entity choice based on taxation. Prerequisites: None.

SBU - Society and Business

SBU200 / 3 CREDITS / 3 PERIODS

SOCIETY AND BUSINESS

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

SLG - Sign Language

SLG101 / 4 CREDITS / 4 PERIODS

AMERICAN SIGN LANGUAGE I

Introduction of principles, methods, and techniques for communicating with deaf people who sign. Development of expressive and receptive sign skills, manual alphabet, numbers, and sign vocabulary. Overview of syntax, grammar, and culture related to American Sign Language (A.S.L.). Prerequisites: None. SLG103 suggested as a corequisite but not required.

SLG102 / 4 CREDITS / 4 PERIODS

AMERICAN SIGN LANGUAGE II

Continued development of knowledge and language skills for communicating with

deaf people who sign. Includes numbers, fingerspelling, and culture. Emphasis on enhancement of receptive sign skills and continued development of expressive sign skills. Application of rudimentary, syntactical, and grammatical structure stressed with continued development of sign vocabulary. Prerequisites: SLG101 with a grade of "C" or better, or permission of Department or Division. Completion of prerequisites within the last three years is required.

SLG103 / 1 CREDIT / 1 PERIOD

INTRODUCTION TO DEAFNESS

History and development of American Sign Language (A.S.L.) and English codes. Overview of education for Deaf and Hard of Hearing children. Legal rights and common adaptive devices used by Deaf and Hard of Hearing individuals. Prerequisites: None.

SLG110 / 2 CREDITS / 2 PERIODS

FINGERSPELLING I

Introduction to basic fingerspelling techniques. Concentration on receptive and expressive skills including manual alphabet production and numbers. Focus on methods, theory, and applications. Prerequisites: SLG101, or permission of Department or Division. Completion of prerequisites within the last three years is required.

SLG120 / 2 CREDITS / 2 PERIODS

FINGERSPELLING II

Continued skill development including speed,

dexterity, clarity, and loan signs. Advanced use of numbers, prefixes, suffixes, and polysyllabic words. Prerequisites: SLG102 and SLG110 with a grade of "C" or better, or permission of Department or Division. Completion of prerequisites within the last three years is required.

SLG201 / 4 CREDITS / 4 PERIODS

AMERICAN SIGN LANGUAGE III

Linguistics of American Sign Language (A.S.L.) including non-manual behaviors and signing English idioms with conceptual accuracy. Emphasis on practical application of A.S.L. skills, expanded vocabulary, and cross-cultural communication. Prerequisites: SLG102 with a grade of C or better, or permission of Department or Division. Suggested but not required: (ENG101 or ENG107) and (CRE101, or CRE111, or exemption by score on the reading placement test (ASSET)). Completion of prerequisites within the last three years is required.

SLG202 / 4 CREDITS / 4 PERIODS

AMERICAN SIGN LANGUAGE IV

Advanced American Sign Language skills including continued vocabulary. Emphasis on conversational techniques in a cross-cultural framework. Continued work on conceptual accurate signing of English idioms and words with multiple meanings. Prerequisites: SLG201 with a grade of C or better, or permission of Department or Division. Suggested but not required: (ENG101 or ENG107), SLG200, and

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(CRE101, or CRE111, or exemption by score on the reading placement test). Completion of prerequisites within the last three years is required.

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SOC - Sociology

SOC101 / 3 CREDITS / 3 PERIODS

SUN SOC 1101

INTRODUCTION TO SOCIOLOGY

The systematic study of social behavior and human groups, particularly the influence of culture, socialization, social structure, stratification, social institutions, differentiation by region, race, ethnicity, sex/gender, age, class, and socio/cultural change upon people's attitudes and behaviors. Prerequisites: None. .

SOC130 / 3 CREDITS / 3 PERIODS

HUMAN SEXUALITY

Examination of the physical, social, cultural, and institutional contributions to human sexuality. Examination of facts and myths, literature, and changing mores regarding human sexuality to acquire knowledge about cultural and social events and processes. Explores the sexuality of males and females in contemporary society. Prerequisites: Student must be 18 years or older.

SOC 241 / 3 CREDITS / 3 PERIODS

SUN SOC 2215

RACE AND ETHNIC RELATIONS

Examines how the social construction of race shapes social interaction and social

institutions. Explores the consequences of power, privilege and oppression among major ethnic and racial groups in the United States. Prerequisites: None.

SOC157 / 3 CREDITS / 3 PERIODS

SOCIOLOGY OF FAMILIES AND RELATIONSHIPS

Systemic analysis of socio-cultural and historical origins of modern families in the U.S. and their importance, major challenges and changing trends. Explores being single, dating and attraction, love, cohabitation and marriage, family planning and parenthood, conflict and crisis within the family, and divorce. Prerequisites: None.

SOC180 / 3 CREDITS / 3 PERIODS

SOCIAL IMPLICATIONS OF TECHNOLOGY

Effects of development and implementation of technology on society. Historical and multicultural comparisons of this process, current concerns addressed, and prospects for the future analyzed. Prerequisites: None.

SOC266 / 3 CREDITS / 3 PERIODS

SOCIOLOGY THROUGH FILM

Examines movie-going and the experience of spectatorship. Studies how motion pictures reflect, influence, and are influenced by American culture and societal institutions. Explores the role of the movie industry as a vehicle for social commentary, analysis, and criticism. Prerequisites: None.

SPA - Spanish

SPA101 / 4 CREDITS / 4 PERIODS

SUN SPA 1101

ELEMENTARY SPANISH I

Basic grammar, pronunciation and vocabulary of the Spanish language. Includes the study of the Spanish-speaking cultures. Practice of listening, speaking, reading, and writing skills. Prerequisites: None.

SPA102 / 4 CREDITS / 4 PERIODS

SUN SPA 1102

ELEMENTARY SPANISH II

Continued study of grammar and vocabulary of the Spanish language and study of the Spanish-speaking cultures. Emphasis on speaking, reading, and writing skills. Prerequisites: (A grade of "C" or better in SPA101 or SPA101AA), or permission of Department or Division. Completion of prerequisites within the last three years is required.

SPA109 / 3 CREDITS / 3 PERIODS

LAW ENFORCEMENT SPANISH I

Conversational and written Spanish for law enforcement personnel. Emphasis on basic sentence structure, pronunciation and vocabulary used in common job-related situations. Prerequisites: None.

SPA115 / 3 CREDITS / 3 PERIODS

BEGINNING SPANISH CONVERSATION I

Conversational Spanish. Basic sentence

structure, pronunciation and vocabulary necessary to develop speaking ability in Spanish. Designed for students seeking speaking and listening abilities with little emphasis on grammar. Prerequisites: None.

SPA116 / 3 CREDITS / 3 PERIODS

BEGINNING SPANISH CONVERSATION II

Continued study of basic pronunciation, vocabulary, sentence structures, and a cultural awareness necessary to develop speaking and listening skills in Spanish. Prerequisites: SPA115, or SPA115AA, or permission of Department or Division. Completion of prerequisites within the last three years is required.

SPA117 / 3 CREDITS / 3 PERIODS

HEALTH CARE SPANISH I

Basic conversational Spanish for health care workers or students. Emphasis on basic sentence structure, pronunciation and vocabulary used in health care settings. Prerequisites: None.

SPA201 / 4 CREDITS / 4 PERIODS

SUN SPA 2201

INTERMEDIATE SPANISH I

Continued study of essential Spanish grammar and Spanish-speaking cultures.

Continued practice and development of reading, writing, and speaking skills in Spanish. Emphasis on fluency and accuracy in spoken Spanish. Prerequisites: A grade of "C"

or better in SPA102, or SPA102AA, or SPA111, or permission of Department or Division.

Completion of prerequisites within the last three years is required.

SPA202 / 4 CREDITS / 4 PERIODS

SUN SPA 2202

INTERMEDIATE SPANISH II

Review of grammar, continued development of Spanish language skills with continued study of the Spanish-speaking cultures.

Prerequisites: A grade of "C" or better in SPA201, or permission of Department or Division. Completion of prerequisites within the last three years is required.

SPH - Spanish Humanities

SPH245 / 3 CREDITS / 3 PERIODS

HISPANIC HERITAGE IN THE SOUTHWEST

A survey of Hispanic heritage in the Southwest. Cultural and social institutions and their contribution to the development of the region and its heritage. Prerequisites: None.•

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SSH - Sustainability/ Social Sciences and Humanities

SSH111 / 3 CREDITS / 3 PERIODS

SUSTAINABLE CITIES

Introduction to the field of sustainability and

exploration of the practices leading to the development of sustainable cities. Explores the concept of sustainable development of cities within local, regional, and global contexts. Prerequisites: None.

STO - Storytelling

STO292 / 3 CREDITS / 3 PERIODS

THE ART OF STORYTELLING

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.

SUS - Sustainability/ Natural Sciences

SUS110 / 3 CREDITS / 3 PERIODS

SUSTAINABLE WORLD

Introduction to the field of sustainability and exploration of the interaction between human and natural global systems.

Framework for analyzing and investigating the global challenges such as land use change, competition for water and other natural resources, and renewable energy concerns and crises. Prerequisites: None

THE - Theatre

THE111 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO THEATRE

A survey of theatre, including basic elements and principles of production, styles, and/or historical perspectives of theatre, dramatic literature, and criticism. Prerequisites: None.

THE118 / 3 CREDITS / 3 PERIODS

PLAYWRITING

Practice and study of theories and techniques of writing for the stage; creating characters, dialogue, and plot for monodramas, scenes, and plays. Prerequisites: None.

THE220 / 3 CREDITS / 3 PERIODS

SUN THE 2220

MODERN DRAMA

Analysis of dramatic literature studied within political, historical, and cultural contexts and examined from the perspective of the playwright's structure and style. Prerequisites: ENG101 or ENG107 or equivalent.

THE260 / 3 CREDITS / 3 PERIODS

FILM ANALYSIS

Understanding and enjoyment of film and its correlation to literature, art, music, and other disciplines. Prerequisites: None.

THF - Theatre and Film

THF115 / 3 CREDITS / 4 PERIODS

MAKEUP FOR STAGE AND SCREEN

Purposes, materials, and techniques of makeup for stage and screen. Prerequisites: None.

THF205 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO CINEMA

Survey of the history and development of the art of motion pictures, including criticism of aesthetic and technical elements. Prerequisites: None.

THF209 / 3 CREDITS / 4 PERIODS

ACTING FOR THE CAMERA

Special technical aspects of acting before a camera. Prerequisites: THP112 or permission of Instructor.

THF210 / 3 CREDITS / 3 PERIODS

CONTEMPORARY CINEMA

A study of contemporary films, directors and critics with emphasis on evaluating film as an art form. Prerequisites: None.

THF219 / 3 CREDITS / 4 PERIODS

ADVANCED ACTING FOR THE CAMERA

Focuses on special technical aspects of advanced acting before a camera.

Prerequisites: THF209 or permission of Instructor.

THP - Theatre Performance/ Production

THP112 / 3 CREDITS / 4 PERIODS

ACTING I

Fundamental techniques and terminology of acting through physical and vocal expression, improvisation, and monologue and scene work. Emphasis on characterization.

Prerequisites: None.

THP201AA / 1 CREDIT / 2 PERIODS

THEATRE PRODUCTION I

Designed to give college credit to the cast and technical production crews of college theatre productions. May be repeated for up to a maximum of four (4) credits. Prerequisites:

None.

THP201AB / 2 CREDITS / 4 PERIODS

THEATRE PRODUCTION II

Designed to give college credit to the cast and technical production crews of college theatre productions. May be repeated for up to a maximum of four (4) credits. Prerequisites: None.

THP212 / 3 CREDITS / 4 PERIODS

ACTING II

Fundamental techniques of acting through

script analysis, rehearsal, and performance. Prerequisites: THP112 or departmental approval.

THP213 / 3 CREDITS / 5 PERIODS

INTRODUCTION TO TECHNICAL THEATRE

Procedures of technical theatre production and demonstration. Topics include design and construction of scenery; lighting and properties. Prerequisites: None.

THP217 / 3 CREDITS / 4 PERIODS

INTRODUCTION TO DESIGN SCENOGRAPHY

The role of the theatre designer in creating scenic, lighting, costume, sound, and multimedia effects for stage productions. Elements of the design process and communication of dramatic themes and visions to the audience. Prerequisites: None.

THP250 / 3 CREDITS / 4 PERIODS

STAGE PROPERTIES

Introduction to stage properties including design, construction and maintenance features. Provides skills in property design and construction using an assortment of standard materials. Prerequisites: None.

THP267 / 3 CREDITS / 4 PERIODS

PAINTING TECHNIQUES FOR FILM, TV AND THEATRE

Theory and skills in scenic artistry. Techniques of painting two-dimensional and three-

dimensional scenery, tools, and the use of color. Prerequisites: THP213.

THP270 / 2 CREDITS / 5 PERIODS

MUSICAL THEATRE WORKSHOP

Workshop in the study and performance of Musical Theatre repertoire. Including audition techniques, talent evaluation criticism, rehearsal techniques, vocal acting styles, stage movement, and performance. Prerequisites: None

WAC - Writing Across Curriculum

WAC101 / 3 CREDITS / 3 PERIODS

WRITING ACROSS THE CURRICULUM

Emphasis on the elements of sentence and paragraph structure, the four stages of the writing process for personal-based and expository. Extensive journal entries, editing and revision of written assignments. Prepare and write multi-paragraph essays. Assigned readings, participation in extensive workshops and groupwork. Prerequisites: Permission of Instructor.

WED - Wellness Education

WED100 / 2 CREDIT / 2 PERIODS

PERSONAL WELLNESS

Overview of wellness and its relationship to

personal health. Understanding of personal wellness through lifestyle assessments. Introduction to wellness and health-related topics including fitness, relationships, nutrition, self care, abusive behaviors, mind/body connection, and other current issues in health. Prerequisites: None.

WED121 / 1 CREDIT / 2 PERIODS

PHYSICAL CONDITIONING FOR MASSAGE THERAPISTS

Physical fitness necessary for current and prospective massage therapists. Includes physical fitness and workout techniques as related to performing massage therapy; individual conditioning strategies, and basic nutritional guidelines. Prerequisites: None.

WED144 / 3 CREDITS / 5 PERIODS

STRATEGIES IN DIABETES MANAGEMENT

Introduction to strategies in diabetes mellitus management and prevention for individuals diagnosed with diabetes and their caretakers. Includes a physical activity component.

Prerequisites: None.

WED151 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO ALTERNATIVE MEDICINE

Definition of health; exploration of mindbody-spirit connection in health; various therapeutic modalities; identification of

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strengths and limitations of alternative therapies. Also includes development of ability to critically review written material in the alternative therapy area. Prerequisites: None.

WED156 / 1 CREDIT / 1 PERIOD

HUMOR AND PLAY

Physiological, psychological, emotional, and intellectual effects of humor and play; suggestions for planning periods of play and incorporating it into one's life. Prerequisites: None.

WED162 / 1 CREDIT / 1 PERIOD

MEDITATION AND WELLNESS

Physiology of meditation and its effects on physical and mental health; scholastic abilities and interpersonal relationships; differentiation between meditation and other relaxation techniques. Prerequisites: None.

WED165 / 2 CREDITS / 2 PERIODS

OVERVIEW OF MASSAGE THERAPY

History of massage; overview of bodywork systems; benefits and indications of massage; legal requirements for practice in Arizona. Prerequisites: None.

WED170 / 1 CREDIT / 1 PERIOD

PRINCIPLES OF HOMEOPATHY

Origins of homeopathy; key concepts; perceptions of disease; schools of homeopathy; scientific studies; preparation of remedies; case taking. Prerequisites: None.

WED172 / 1 CREDIT / 1 PERIOD

OVERVIEW OF HERBAL REMEDIES

History and evolution of herbs for healing applications. Preparation, usage, and effects of certain herbs used for healing purposes. Basic literature review skills in the area of herbal medicine. Prerequisites: None.

WED176 / 1 CREDIT / 1 PERIOD

FLOWER ESSENCES

Healing properties of Bach flower remedies; Bach's development of remedies and his philosophy of healing; use and preparation of a variety of flower essences. Prerequisites: None.

WED182 / 2 CREDITS / 2 PERIODS

HEALTH CONDITIONS AND POPULAR HERBS

In-depth look at some of today's most popular herbs and their relationship to specific health conditions. Emphasis on research skills in relation to popular herbs. Includes the effects, uses, and application strategies of herbs. Prerequisites: None. WED172 suggested but not required.

WED210 / 2 CREDITS / 3 PERIODS

SPORTS MASSAGE

Purpose, benefits, and contraindications of sports massage; principles of sports physiology; massage techniques, applications, and procedures; treatment of injuries.

Prerequisites: WED165 and WED230, or permission of Program Director.

WED215 / 2 CREDITS / 5 PERIODS

SELF-CARE FOR HEALTH CARE PROVIDERS

Emphasis on mind-body methods for personal wellness through integration of physical, emotional, social, and spiritual dimensions of being. Development of a personal practice to achieve and sustain a balanced program to support personal health and well being. Prerequisites: None.

WED218 / 1 CREDIT / 1 PERIOD

AROMATHERAPY

Physiology of aromatherapy; methods of use; preparation of oils; uses in sports, beauty care, massage, child care, health care, at work, and in the home. Prerequisites: None.

WED230 / 6 CREDITS / 9 PERIODS

THERAPEUTIC MASSAGE PRACTICES I

Principles of professionalism, ethics, and legalities. Includes use of terminology related to massage therapy. Applications, indications, and contraindications of the nine strokes of Swedish massage. Study of the human osseous and muscular structure. Emphasis on normal movement patterns, origins, insertions, and functions of the muscular system. Prerequisites: (BIO160 and WED165) or permission of Program Director.

WED231 / 6 CREDITS / 9 PERIODS

THERAPEUTIC MASSAGE PRACTICES II

Refined application of the nine strokes of Swedish massage and contraindications to avoid. Application of advanced principles and techniques of trigger point therapy, muscle energy technique, stretching, hydrotherapy protocols, hot and cold applications, reflexology, and corporate massage. Study of the human osseous and muscular structure. Emphasis on normal movement patterns and the origin, insertion, and function of the muscular system. Prerequisites: WED230.

WED232 / 6 CREDITS / 10 PERIODS

THERAPEUTIC MASSAGE PRACTICES III

Refinement and integration of technical skills, psychosocial competencies, and role identity. Exploration of techniques to assess and facilitate range of motion and function; purpose, benefits, indications, and contraindications of therapeutic massage for specific neuro-musculoskeletal disorders/injury and special populations. Application of massage techniques with therapists preand post-client evaluations of the client. Adaptation of massage techniques for special populations. Prerequisites: WED231. Corequisite: WED250, or permission of Program Director.

WED250 / 3 CREDITS / 6 PERIODS

CLINICAL PRACTICUM

Application of fundamental massage techniques. Prerequisites: WED231.
Corequisites: WED232, and permission of Program Director.

WED262 / 2 CREDITS / 3 PERIODS

ACUPRESSURE/SHIATSUI

Overview of the principles of Traditional Chinese Medicine and the Meridian System; history, purpose, benefits, indications, and contraindications of Acupressure/Shiatsu. Therapeutic techniques and applications of Acupressure/Shiatsu; pre and post evaluations of intervention procedures. Prerequisites: WED250, and permission of instructor.

WED264 / 2 CREDITS / 3 PERIODS

ACUPRESSURE/SHIATSU II

Therapeutic techniques and applications for Anma massage used to disperse heat and stagnant "Ki;" hands-on techniques to balance Kyo and Jitsu energy; meridian rebalancing stretches and visualizations for release of acute/chronic muscle tension. Prerequisites: WED262, or permission of instructor.

WED281 / 3 CREDITS / 3 PERIODS

INTRINSIC COACH TM DEVELOPMENT

Development of intrinsic thinking skills, enabling intrinsic strategizing, and building on intrinsic resources to create a link between information about wellness and information enacted through healthy behavior change. Emphasis is on application of Intrinsic CoachingTM methodology. Prerequisites: None. Course Note: Course is designed for health and wellness professionals. Under the terms and conditions specified in the licensing agreement with Totally Coached,

Inc., and the Maricopa Community College
District, only those persons licensed and
approved by Totally Coached, Inc., are
qualified to teach Intrinsic Coach(tm) courses
or other Totally Coached, Inc., courses. These
facilitators must be identified within the terms
of the agreement between Totally Coached,
Inc., and the Maricopa Community College
District.

WED297AA/ 1 CREDIT / 1 PERIOD
WED297AB/ 2 CREDITS / 2 PERIODS
WED297AC/ 3 CREDITS / 3 PERIODS

SPECIAL TOPICS: THERAPEUTIC MASSAGE

Explores a special topic related to therapeutic massage. Topics vary and include concepts relevant to those pursuing careers in therapeutic massage. Prerequisites: None.

WST - Women's Studies

WST100 / 3 CREDITS / 3 PERIODS

INTRODUCTION TO WOMEN'S AND GENDER STUDIES

Introduction to critical issues in women's studies. Prerequisites: None.

WST200 / 3 CREDITS / 3 PERIODS

ESSENTIAL FEMINIST WRITING

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.

WST285 / 3 CREDITS / 3 PERIODS

CONTEMPORARY WOMEN WRITERS

Explores twentieth century literature (short stories, essays, plays, and poetry) written by women and about women. Focus on themes relevant to women's lives regardless of age, creed, or ethnic background. Prerequisites: None.

WST290 / 3 CREDITS / 3 PERIODS

WOMEN AND WORLD RELIGION

Focus on the role of women in several organized religions and/or religious sects. Study of myth and symbols as they are used to establish, maintain, and enforce sex-roles within specific cultural contexts around the world. Prerequisites: None.

Information Regarding Special Courses Not Listed in the College Catalog

COOPERATIVE EDUCATION (COURSES NUMBERED 296)

Work-college experiences that involve the combined efforts of educators and employers to accomplish an outcome related to the career objectives of the students. Prerequisites: Permission of Program Director or instructor. Corequisites: Must be concurrently enrolled in at least one class related to job/co-op subject area; must maintain an enrollment ratio of two (2) hours of credit in other courses for every

one (1) hour of Cooperative Education credit (excluding radio and television); a maximum of sixteen (16) hours of Cooperative Education credit is allowable in a college program.

SPECIAL PROJECTS (COURSES NUMBERED 298)

Organized and tailored around the interests and needs of the individual student.

Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance.

Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development.

Prerequisites: Permission of Program Director or instructor.

Shared Unique Number (SUN) System SUN

The Shared Unique Number (SUN) System helps students identify courses that will directly transfer among Arizona's community colleges and three public universities. Using the SUN System, students can easily search for and enroll in courses that offer direct equivalency at other Arizona colleges and universities. SUN courses have their own unique course number and prefix listed alongside each college's course number.

Additional information about SUN System can be found at www.azsunsystem.com



ADMINISTRATION & FACULTY INDEX

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Current Term Expires:12/31/2020 District At Large

Representing Maricopa County

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Current Term Expires:12/31/2020

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GLOSSARY OF COLLEGE TERMINOLOGY

ACADEMIC LOAD

The total number of credit hours taken in a term. Twelve credit hours is considered a full-time load.

ACADEMIC ADVISOR

A designated staff member who has received training to provide students with academic information that will direct them to the appropriate classes to achieve their educational goals and enhance their academic success.

ADMISSION

Acceptance into a college after the student has filed a completed Student Information Form with the Admissions, Records and Registration Office and has been admitted according to admissions criteria. Students who have been admitted are eligible to register for courses.

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.

ALUMNUS/ALUMNA

A graduate of a college or university. (Plural: alumni/alumnae)

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 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.

AUDIT

An option for class registration in which the student pays to attend class but does not want to receive credit. Students sometimes choose to audit courses in which they do not wish to complete required assignments.

BACHELOR'S DEGREE

A degree awarded by a four-year college or university. Generally requires completion of 120 semester credits. Also referred to as a baccalaureate degree (e.g., BA or BS).

CLASS NUMBER

A unique, five-digit code used to identify each class section of each course offered. Class Numbers are listed in the Class Schedule.

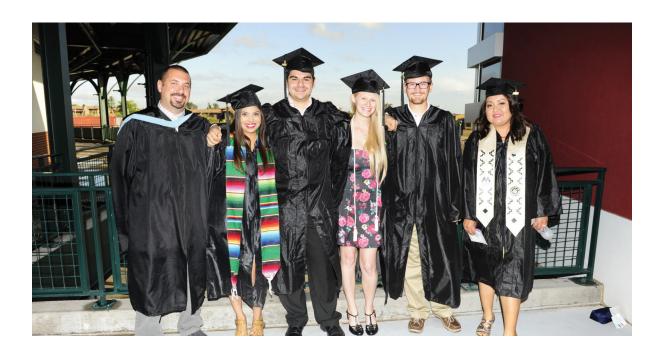
CLASS PERIOD

Time spent in class and/or lab each week.

One period is equivalent to 50 minutes per week.

CLASS SCHEDULE

A college publication that lists all courses offered during a semester, including dates



and times of class meetings, names of instructors, buildings and rooms, credit hours, and other important registration information.

COCURRICULAR ACTIVITIES

Also known as extracurricular. Activities, clubs, or organizations students may participate in above and beyond their academic courses.

COMMENCEMENT

Also known as graduation. A ceremony during which colleges award certificates of completion and degrees to graduating students.

CONTINUED PROBATION

A student on academic probation is placed on continued probation if they do not raise their cumulative grade point average (GPA) to the required minimum standard. Enrollment is limited to six (6) credit hours for a period of one semester.

CONTINUOUS ENROLLMENT

The process of registering for and completing courses during consecutive semesters, excluding summer sessions. Determines catalog year for graduation.

COREQUISITE

Specified conditions, requirements, or courses that must be completed at the same time as another course.

COUNSELOR

A person professionally trained in counseling who helps students with educational, career, or personal concerns as well as goal setting and decision making.



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 fees.

COURSE NUMBER

A three-digit code that identifies a specific course and indicates its level and sequence (e.g., 101 in ENG101).

COURSE PLACEMENT TESTING

Evaluation of students' present skills in English, reading, and mathematics using course placement tests. Scores are used as a guide for proper course placement so students can choose courses that match their skills. Such matches lead to greater success.

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., First-Year Composition, title for English 101).

CREDIT HOUR

The numerical unit of college credits earned for the satisfactory completion of a specific course. Also referred to as semester hours or units (e.g., 3 credit hours).

CURRICULUM

A planned sequence of courses for an academic or occupational goal. Also referred to as a program of study.

DIVISION

A group of faculty who teach classes in related subjects, such as accounting, management, and marketing in the Business and Computing Studies Division.

DROP/ADD PERIOD

A specified period of time at the beginning of a term when schedule changes (i.e., adding or dropping one or more classes) are allowed without a refund penalty. Courses dropped during the Drop/Add Period do not appear on students' transcripts.

ELECTIVES

Non-required courses that students may select to complete their program of study.

FACULTY

Instructors, teachers. Counselors and librarians are also faculty.

FINAL EXAMS

Tests or exercises given at the end of a term that are often comprehensive; that is, they may include all material covered during the semester. The schedule of final exam dates and times for each term is included in the Class Schedule.

FINANCIAL AID

Financial assistance in the form of grants, scholarships, work study, and loans to assist students in paying for college. Sources are varied with funds coming from federal and state governments, colleges, private donors, and local agencies and organizations.

STUDENT FINANCIAL SERVICES

Also known as the Cashier's Office where students may pay tuition and fees, course fees, and other fees owed the college.

GRADE POINT

The numerical value of a grade multiplied by the credit hours for a course (A=4 points; B=3 points; C=2 points; D=1 point). If, for example, a student earns an A in English 101 (3 credit hours), then the student earns 12 points: A=4 points x = 3 (credit hours) = 12 points.

GRADE POINT AVERAGE

Generally called GPA, grade point average is determined by dividing the total number of grade points earned by the total number of credit hours attempted. For example, 45 grade points divided by 15 credit hours earned = 3.0 GPA.

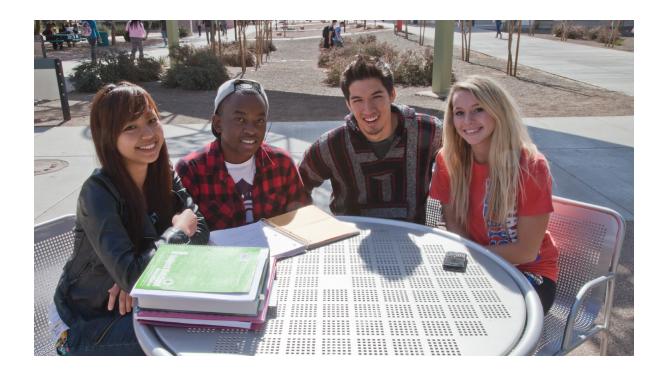
LEARNING COMMUNITIES

Learning communities are two or more classes connected through content, ideas, and activities. Using a variety of learning methods, learning communities can be comprised of linked activities between courses, linked and clustered courses, and completely integrated single- or team-taught courses.

LOWER DIVISION

Normally freshman- and sophomore-level (100 and 200) courses offered by a college.

Community colleges offer ONLY lower division courses. Four-year institutions also offer



upper division courses, which are junior-level and senior-level (300 and 400) courses.

MAJOR

An area of concentrated study often for a specific degree or occupation, such as journalism, nursing, or aircraft maintenance.

NEW STUDENT ORIENTATION

A session during which new students are introduced to academic programs, facilities, and student support services provided by a college.

OFFICIAL ABSENCE

Absence from class approved by the Vice President of Student Affairs for students who are participants in an official college activity. Approved absence documentation must be presented by students to their instructors before the official absence. Students make arrangements to complete the work they will miss.

PASS/FAIL

An option for class registration in which students choose to receive a grade of Pass or Fail in lieu of a letter grade (A, B, C, D, F). Students can earn credits towards graduation by passing these courses but the grades will not count in their GPAs. It is best to check with an advisor to make sure that Pass/Fail grades will transfer to another college or university.

PLACEMENT TEST

See Course Placement Testing.

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.

REQUIRED COURSE

A course that a student must complete to meet certain goals or to complete a certain curriculum.

SCHOLASTIC SUSPENSION

Students on suspension from any accredited institution of higher education may appeal to the Admissions and Standards Committee or campus designee for permission to register. The student will be limited to twelve (12) credit hour unless approved by Admissions and Standards Committee.

SEMESTER

Traditionally half an academic year, about 16 weeks in length. Fall semester begins in August and spring semester begins in January.

SERVICE-LEARNING

Service-Learning combines community service with academic instruction focusing on critical-thinking and problem-solving, values clarification, social and personal development, and civic responsibility. CGCC students have been performing meaningful service at community agencies to learn experientially during one-day events, class projects, and individual placements for over 10 years.

SYLLABUS

One or more pages of course requirements that instructors give to students on the first day of class. The syllabus may include detailed information about a course, such as an instructor's grading system, attendance policies, and testing and assignment dates.

TRANSCRIPT

An official record of a student's college coursework that is maintained by the college registrar. Courses taken, grades, GPA, and graduation information are included on a transcript.

TRANSFER CREDIT

Course credit that is accepted from or by another college or university.

TUITION AND FEES

The cost per semester credit unit that students must pay for their college courses. Tuition and fees are determined by the Maricopa County Community College Governing Board.

TUTORING

Additional learning assistance provided by tutors to students in individual or group sessions. Tutoring is centralized in the Learning Center.

WITHDRAWAL

Officially dropping any or all courses during a semester.



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CHANDLER-GILBERT COMMUNITY COLLEGE

2626 EAST PECOS ROAD CHANDLER, AZ 85225-2499 (480) 732-7000

ESTRELLA MOUNTAIN COMMUNITY COLLEGE

3000 NORTH DYSART ROAD AVONDALE, AZ 85323-1000 (623) 935-8000

GATEWAY COLLEGE

108 NORTH 40TH STREET PHOENIX, AZ 85034-1795 (602) 286-8000

GLENDALE COMMUNITY COLLEGE

6000 WEST OLIVE AVENUE GLENDALE, AZ 85302-3090 (623) 845-3000

MESA COMMUNITY COLLEGE

1833 WEST SOUTHERN AVENUE MESA, AZ 85202-4868 (480) 461-7000

PARADISE VALLEY COMMUNITY COLLEGE

18401 NORTH 32ND STREET PHOENIX, AZ 85032-1200 (602) 787-6500

PHOENIX COLLEGE

1202 WEST THOMAS ROAD PHOENIX, AZ 85013-4234 (602) 285-7800

RIO SALADO COLLEGE

2323 WEST 14TH STREET TEMPE, AZ 85281-6950 (480) 517-8000

SCOTTSDALE COMMUNITY COLLEGE

9000 EAST CHAPARRAL ROAD SCOTTSDALE, AZ 85256-2626 (480) 423-6000

SOUTH MOUNTAIN COMMUNITY COLLEGE

7050 SOUTH 24TH STREET PHOENIX, AZ 85042-5806 (602) 243-8000

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