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WATER RESOURCES TECHNOLOGIES

Associate in Applied Science Degree in Water Resources Technologies & Certificates of Completion in Water & Wastewater Treatment

MORE INFORMATION:

(602) 286-8616

GATEWAYCC.EDU/WATER-TECHNOLOGY



**GATEWAY
COMMUNITY COLLEGE**

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**MARICOPA
COMMUNITY COLLEGES**

108 N. 40th Street – Phoenix, AZ 85034

Program: 3830 Effective Fall 2018 – Revised 07/19/18

Disclaimer: This document is for informational purposes only. The official programs description can be found here: <http://www.maricopa.edu/academic/ccta/>

Welcome to the Water Resources Technologies Program at GateWay Community College

If you have any questions about the enclosed program material, please feel free to contact any of the following program contacts:

Dr. Craig Urbanski, Water Resources Technologies, Program Director
South Building - Room SO1167
Phone: 602-286-8616 Email: craig.urbanski@gatewaycc.edu

Roman Diaz, Water Resources Technologies, Residential Faculty
South Building – Room SO 1164
Phone: 602-286-8659 Email: roman.diaz@gatewaycc.edu

Raymond Rocha, Academic Advisor
Phone (602) 286-8174 Email: rocha@gatewaycc.edu

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AAS in Water Resources Technologies: Program # 3830
Certificate of Completion – Water Treatment #5142
Certificate of Completion – Wastewater Treatment #5146

Maricopa County Community College District (MCCCD) is an EEO/AA institution and an equal opportunity employer of protected veterans and individuals with disabilities. A lack of English language skills will not be a barrier to admission and participation in the career and technical education programs of the college.

The Maricopa Community Colleges do not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. For Title IX/504 concerns, call the following number to reach the appointed coordinator: (480) 731-8499. For additional information, as well as a listing of all coordinators within the Maricopa College system, visit <http://www.maricopa.edu/non-discrimination>.

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** The information provided in this Guide is subject to change.*

REGISTRATION CHECKLIST

1	Submit 'Student Information Form' https://admissions.maricopa.edu/	Enrollment Services IE 1214	(602) 286-8200
2	Verify in-state residency https://my.maricopa.edu/services/admissions-records-registration/proof-identity-id-authentication	Enrollment Services IE 1214	(602) 286-8200
3	Send Official Transcript and/or High School Transcripts to Enrollment Services GateWay Community College Attn: Admissions and Records 108 North 40th Street Phoenix, AZ 85034	Enrollment Services IE 1214	(602) 286-8200
4	Take Course Placement Test (if applicable) Some courses and programs require test scores prior to enrollment. No fee required. BRING PICTURE ID. Call for times.	Testing Center IE 1252	(602) 286-8160
5	Apply for Financial Aid and Scholarships, if interested http://www.gatewaycc.edu/Pay/FinancialAid/Apply.aspx http://www.fafsa.ed.gov/index.htm	Enrollment Services IE 1214	(855) 622-2332
6	Meet with an Industrial Technology Program Advisor Explore your program options, obtain registration advisement and setup a program of study plan.	Enrollment Services IE 1214	(602) 286-8174
7	Register for Courses Schedule Available at http://classes.sis.maricopa.edu/ Enroll online at https://my.maricopa.edu	Enrollment Services IE 1214	(602) 286-8200
8	Pay Tuition and Fees Payment Plans and Payment Extensions Available. Ask for details.	Enrollment Services IE 1214	(602) 286-8200
9	Obtain Student ID, Optional Enrollment Services — BRING PICTURE ID	Enrollment Services IE 1214	(602) 286-8141
10	Obtain Parking Decal, Required Required if parking a vehicle on campus.	Enrollment Services IE 1214	(602) 286-8200
11	Purchase Books Bookstore or online at https://www.bkstr.com/gatewayccstore/home	Main Building, Bookstore MA 1200	(602) 286-8400
12	Attend a Program Orientation Session A week before the start of the semester.	Room location varies each semester.	(602) 286-8613

Water Resources Technologies

Career Description

The Associate in Applied Science (AAS) in **Water Resources Technologies** degree includes theoretical and practical hands-on training in the monitoring of water quality and quantity as well as in water and industrial wastewater treatment. The emphasis is on federal, state, county, and city regulations affecting water quality and quantity management in addition to water/wastewater treatment. The students would be involved in the operation, calibration, and maintenance of water monitoring instruments and water and wastewater treatment equipment. The student can take two different tracks: **Hydrologic Technician or Water and Wastewater Treatment**.

Hydrologic Technician

A love of nature, passion for the environment and concern for how precious water resources are monitored and maintained are just some of the characteristics of **Hydrologic Technicians**. Managing water in lakes, rivers, and oceans, among others, requires dedication and skill. Ignorance in the care and maintenance of these water sources can lead to much larger repercussions, making **Hydrologic Technicians** vital to the health and **sustainability** of water resources.



One great aspect of a career as a **Hydrologic Technician** is that in order to monitor water, you have to be where the water is! This means many professionals spend most of their time working outside in the field, and not a lot of time sitting behind a desk or in a cramped cubicle. **Hydrologic Technicians** primary job duties are to monitor the quality and quantity of surface and ground water, take samples and flow measurements, install gauges and survey cross sections of water ways. Data is then recorded and analyzed to determine if the water meets national and state standards, and for historical records. Field technicians will work with **hydrologists**. **Hydrology** is considered to be one of the technical areas for **green jobs** (http://www.greenjobsready.com/index.php?option=com_content&view=article&id=351).

How To Get Started

GateWay is the only college in the state of Arizona to offer an Associate in Applied Science degree in **Hydrologic Studies**. Our program has been utilized by the **US Geological Survey** as a national feeder school for **hydrologic technicians**. The USGS visits GateWay twice a year to interview students for potential summer paid internships. (<http://www.usgs.gov/ohr/student/learn/jobs/job-hydro.html>). Other government agencies such as the **United State Department of Agriculture (USDA)**, **Bureau of Land Management (BLM)**, **Bureau of Reclamation (BRec)**, **Maricopa Flood Control District (MFCD)**, **Salt River Project (SRP)**, and local irrigation districts, among others also employ hydrologic technicians. Our program provides the field experience needed for success in this industry and also the communication skills required to deliver written and oral reports to the general public. This experience is gained by completing the Associate in Applied Science Degree in **Water Resources Technologies** with a track on **Hydrologic Studies**. The American Institute of Hydrology provides a certification for hydrologic technicians. (<http://www.aihydrology.org/technician.htm>)

Employment Outlook

With ever-increasing population and a constant struggle to preserve quantity and quality of water, particularly in the Southwest of the United States, careers in **hydrology** are in demand nationwide. In Arizona, **Hydrologic Technician** positions are expected to increase 5% by 2018. For information about employment and salary trends, education requirements, and job descriptions, visit www.onetonline.org.

Water and Wastewater Treatment



Water quality matters. Whether the water is coming out of the faucet in your kitchen, or is the output of a technology company's manufacturing plant, human safety and local, state and federal requirements mandate that water be the highest quality and purity, all the time. Key to this process is **Water/Wastewater Treatment Technicians**, also known as Wastewater Treatment or Collections Operators, Water Treatment or Distribution Operations or Facilities Technicians.



The primary job duties of operators and technicians include responsibility for the proper operation and maintenance of a water supply or wastewater treatment facility in order to produce the highest quality water needed for municipal and industrial systems. This means acquiring an in-depth understanding of exactly how machinery and processes work in order to troubleshoot problems, streamline operations, repair or correct breakdowns and in general, make everything run smoothly.

(<http://www.epa.gov/safewater/operatorcertification/wateryouwaitingfor/index.html#>) and www.workforwater.org

What Can I Expect In This Program?

This program provides theoretical and practical hands-on training in water treatment, wastewater treatment and industrial wastewater treatment. It emphasizes federal, state, county and state regulations affecting water/wastewater treatment as well as: operation, calibration and maintenance of water and wastewater treatment equipment. Additionally, this program provides practical hands-on training in high purity and industrial treatment technologies including operation, calibration, maintenance, and water quality monitoring.

How To Get Started

The **Water Resources Technologies Program** at GateWay Community College provides the education and skills for the knowledge needed to become a successful operator or technician. Because employers need experienced technicians, the program provides the theoretical concepts as well as hands-on practical experience. This experience is gained by completing the **Associate in Applied Science Degree in Water Resources Technologies** with a track in **Water and Wastewater Treatment**. Additionally, water and wastewater operators in the State of Arizona are required to obtain a state certification in order to work in this field, and GateWay offers the ADEQ operator Certification Exams throughout Arizona.

Employment Outlook

Due to population growth, industry demand and a critical need for water - particularly in the Southwest of the United States - **Water/Wastewater Treatment Technician** positions are expected to increase 10% or more by 2018. For information about employment and salary trends, education requirements, and job descriptions, visit www.onetonline.org.

Water Resources Technologies Program Costs

Tuition and fees are set by the Maricopa Community College District Governing Board. Tuition is based on the 2018 - 2019 tuition rate of \$85 per-credit-hour (for in-county students). Tuition and fees are subject to change. Additional fees may apply. Financial Aid and Child Care are available to those who qualify.

Accreditation

GateWay Community College is a Maricopa Community College, accredited by the Commission on Institutions of High Education of the North central Association of Colleges and Schools (30 North LaSalle Street, Suite 2400, Chicago, IL 60602-2504. Phone (800) 621-7440)

Certificates of Completion in Water Resources Technologies

The Certificate of Completion in **Water Treatment** will provide the students an educational foundation to prepare for the Arizona ADEQ Certification in Water Treatment and Distribution Levels 1 and 2. The Certificate of Completion in **Wastewater Treatment** will provide the students an educational foundation to prepare for the Arizona ADEQ Certification in Wastewater Treatment and Collections levels 1 and 2.

There **is not a single class** that can cover all the Association of Boards of Certifications (ABC) requirements for the certification exams. Our certificate of completions are one attempt to cover most of the required knowledge (and some additional skills that the municipalities have identified for their jobs). Students are encouraged to review the ABC's documents: "Need to Know Criteria" for a list of competencies required by ABC (http://www.abccert.org/testing_services/need_to_know_criteria.asp) to determine when enough knowledge has been acquired to take the Arizona ADEQ Certification tests.

For those students with previous knowledge on the subject, GateWay offers **self-paced** online review courses (0.5 credits) to prepare for the exam. Although these courses are semester-long courses, the course material can be reviewed in two weeks or less, depending on the student time availability. These review courses were designed to address most of the ABC's Core Competencies presented in the Need to Know Criteria Documents by using quizzes developed for our formal training courses and quizzes from the ABC's recommended study guides. These review courses **WILL NOT** help a student with **no previous knowledge** on water treatment, wastewater treatment, collections, or distribution. Students **cannot** become operators in one week as it takes a combination of **education and experience** for this purpose. Gateway's WRT Certificate of Completions were designed in conjunction with the WRT Advisory Committee for that purpose.

WRT280AA ~ Water Treatment Review for Grades 1 & 2 WRT280AC
~ Water Distribution Review for Grades 1 & 2 WRT281AA ~
Wastewater Treatment Review for Grades 1 & 2 WRT281AC ~
Wastewater Collections Review for Grades 1 & 2

Training might be available through other institutions to help the operators for the state certification exam.

Arizona DEQ Operator Certification Testing

GateWay Community College is the proctor entity for the ADEQ-ABC Operator Certification Exams in Arizona. You can register for the test and find more information about the tests at:

<https://sites.google.com/a/maricopa.edu/adeq-operator-certification/home>

You will find links to the ABC's website with information about study guides, sample of exam questions, conversion tables, preparing for the exam, test registration fees and testing locations.

Potential water/wastewater students should visit a local water/wastewater treatment plant to gain additional insight about the operator's job and duties. Students should call the plant in advance to plan for the tour. Many water/wastewater facilities offer guided tours for the community. That visit may help the student decide which program track or operator certification to pursue first.

WRT CERTIFICATE OF COMPLETION

Program Pre-requisites: MAT 092 or equivalent First Step: Take the Accuplacer Placement test and Meet with the program advisor to plan your studies		
CORE COURSES		
OSH106AA (3)	WRT 100 ⁺ (3)	WRT140/140LL ⁺ (4)
Computer Competency: <i>CIS105 or BPC110 (3)</i>		
CERTIFICATE OF COMPLETION		
WATER TREATMENT		WASTEWATER TREATMENT
WRT110 ⁺ (3)		WRT121 ⁺ (3)
WRT134 ⁺ (3)		WRT131 ⁺ (3)
WRT115 ⁺ (3)		WRT115 ⁺ (3)
WRT190AA (1)		WRT190AA (1)
WRT204 ⁺ (3) OR WRT205 ⁺ (3)		WRT204 ⁺ (3) OR WRT205 ⁺ (3)
<i>To receive this degree, students must earn a grade 'C' or better in all courses within the program.</i>		
Total Required Credits for Associate in Applied Science		
26		26

Recommended Course Schedule

FIRST SEMESTER—FALL

WATER TREATMENT Course (credits)	WASTEWATER TREATMENT Course (credits)
WRT100 (3)	WRT100 (3)
WRT110 (3)	WRT131 (3)
WRT140/140LL (4)	WRT140/140LL (4)
WRT190AA (1)	WRT190AA (1)

2ND SEMESTER—SPRING

WATER TREATMENT Course (credits)	WASTEWATER TREATMENT Course (credits)
WRT115 (3)	WRT115 (3)
WRT134 (3)	WRT121 (3)
WRT204 (3) OR WRT205 (3)	WRT204 (3) OR WRT205 (3)
CIS 105(3) OR BPC110 (3)	CIS 105(3) OR BPC110 (3)
OSH106AA (3)	OSH106AA (3)

WRT DEGREE PROGRAMS

A high school diploma or GED equivalency is required.

Math assessment score on District placement exam placing students into MAT090/MAT091/MAT092 or higher. First Step: Take the Accuplacer Placement Test and Meet with the program advisor to plan your studies

ASSOCIATE OF APPLIED SCIENCE DEGREE CORE COURSES

OSH106AA (3)	WRT140/140LL ⁺ (4)	
WRT 100 ⁺ (3)	Computer Competency: CIS105 or BPC110 (3)	WRT190AA (1)

SPECIFIC PROGRAM COURSES

WATER AND WASTEWATER TREATMENT

WRT103 ⁺ (3)
WRT110+ (3)
WRT115 ⁺ (3)
WRT121 ⁺ (3)
WRT204 ⁺ (3)
WRT205 ⁺ (3)
WRT221 ⁺ (3)
WRT240/240LL ⁺ (4)

Students preparing to enhance their skill set in the Water Resources Technologies Industry may complete zero (0) to six (6) credits with permission of the Water Resources Program Director.

GENERAL STUDIES REQUIREMENTS

ENG101 (or ENG107) AND ENG102 Or (ENG108 or ENG111) (6)	COM100 (OR COM110 OR COM230) (3)	CRE101 (OR CRE110) (3)
CHM130/130LL ⁺ (OR) CHM130AA ⁺ (OR) BIO105/LL (OR) GLG110/111 (4)	MAT120, or MAT 121, or MAT 122 (3-5) For students intending to transfer to the university, MAT150, MAT151 or MAT152 is recommended.	
<i>(Course must be on the approved list of course to meet the AAS degree in General Education Requirements)</i>	Humanities/Fine Art Class (3 credits) (SSH111 is recommended)	Social/Behavioral (3 credits)

To receive this degree, students must earn a grade 'C' or better in all courses within the program.
Total Required Credits for Associate in Applied Science

66-77	66 - 72
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**Associate in Applied Science (AAS)
Recommended Course Schedule**

FIRST SEMESTER—FALL

WATER AND WASTEWATER TREATMENT Course (credits)
WRT100 (3)
WRT110 (3)
WRT140/140LL (4)
WRT190AA (1)
<i>Required general education core classes can be taken at any other MCCD Colleges at your convenience (summer, online and Saturday classes are available).</i>

2ND SEMESTER—SPRING

WATER AND WASTEWATER TREATMENT Course (credits)
WRT103 (3)
WRT115 (3)
WRT121 (3)
CIS105/BPC110 (3)
OSH106AA (3)

3RD SEMESTER—SUMMER

WATER AND WASTEWATER TREATMENT Course (credits)
ENG101 OR ENG107 (3)
COM100 OR COM110 OR COM230 (3)
recommended Humanities/Fine Arts (3) SSH111 Sustainable Cities 3 is recommended
<i>Required general education core classes can be taken at any other MCCD Colleges at your convenience (summer, online and Saturday classes are available).</i>

**Associate in Applied Science (AAS)
Recommended Course Schedule**

FOURTH SEMESTER—FALL

WATER AND WASTEWATER TREATMENT Course (credits)
WRT204 (3)
WRT240/240LL (4)
CRE101 OR CRE111 (3)
MAT120 (5) OR MAT121 (4) OR MAT122 (3) For students intending to transfer to the university MAT150, MAT151 or MAT152 is recommended.
Social and Behavioral Science Course (3)
<i>Required general education core classes can be taken at any other MCCD Colleges at your convenience (summer, online and Saturday classes are available).</i>

FIFTH SEMESTER—SPRING

WATER AND WASTEWATER TREATMENT Course (credits)
WRT205 (3)
WRT221 (3)
CHM130/130LL OR CHM130AA OR GLG110/111 OR BIO105 (4)
ENG102 OR ENG108 OR ENG111 (3)
<i>Required general education core classes can be taken at any other MCCD Colleges at your convenience (summer, online and Saturday classes are available).</i>

Water Resources Technologies Courses

New Course Pre-Fix	Course Name	Credits	Mode of Instruction
OSH106AA	Industrial Safety	3	Online/In Person
WRT100+	Introduction to Water Resources	3	Online
WRT102+	Water Resources Computations and Data Analysis	3	On line/In Person
WRT103 +	Industrial Pretreatment	3	In Person
WRT110 +	Principles of Water Treatment Plant Operations	3	Online
WRT115 +	Water Technology Calculations	3	Online/In Person
WRT117 +	Geographic Information Systems (GIS)	3	In Person
WRT121 +	Operations of Wastewater Treatment Plants	3	Online
WRT125 +	Surveying for Water Resources	2	In Person
WRT130 +	Groundwater Hydrology	3	Online
WRT140 +	Water Quality for Treatment Industry	3	Online
WRT140LL	Water Quality for Treatment Industry Laboratory	3	In Person
WRT150 +	Introduction to Surface Water Data Collection	3	Online
WRT152 +	Water Resources Field Investigations I: Surface water and groundwater	3	In Person
WRT190AA	Water Resources Technologies Seminar	1	Online
WRT204 +	Water/wastewater Maintenance/Mechanical Systems Wastewater Treatment	3	In Person
WRT205 +	Power and Instrumentation	3	In Person
WRT221+	Water and Wastewater Treatment Plants Administration +	3	Online
WRT240+	Water Quality	3	Online
WRT240LL+	Water Quality Field Techniques	1	In Person
WRT250+	Surface Water Hydrology	3	In Person
WRT252+	Water Resources Field Investigations II: Surface Water and Surveying	3	In Person
WRT260+	Field Hydrology: Groundwater, Surface Water and Water Quality	3	In Person
WRT270AA+	Water Resources Internship	1	In Person
WRT270AB+	Water Resources Internship	2	In Person
WRT270AC+	Water Resources Internship	3	In Person

Water Resources Technologies Courses

New Course Pre-Fix	Course Name	Credits	Mode of Instruction
CIS105	Survey of Computer Information Systems	3	Online/In Person
BPC110	Computer Usage and Applications	3	Online/In Person
BIO 105	Environmental Biology	4	Hybrid
CHM130/CHM130LL+	Fundamental Chemistry (3) and Lab (1)	4	Online/In Person
COM	Any approved general education course in the Oral	3	Online/In Person
CRE101 or CRE111+ or Equivalent	Critical Reading or Critical Reading for Business and Industry or Equivalent by Assessment	3	Online/In Person
ENG101+ (or ENG107+)	First-Year Composition	3	Online/In Person
ENG102+ or ENG108+ or ENG111+	First-Year Composition or Technical Writing	3	Online/In Person
GLG110/GLG111	Geological Disasters and the Environment (3) and Lab (1)	4	Online/In Person
MAT120 (or MAT121 or MAT122)	Intermediate Algebra	3-5	

Elective Courses for ALL TRACKS Associate Degree Programs

Course Pre-Fix	Course Name	Credits	Mode of Instruction
Any WRT Course approved by Department or AAA/CPD150	Students preparing to enhance their skill set in the Water Industry may complete zero (0) to six (6) credits with permission of the Water Resources Program Director. Any courses taken to fulfill the Required Courses area may not be used to fulfill the Restricted Electives	0-6	Varies

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AAS in Water Resources Technologies: Program # 3830

Please note that not all the courses may be offered every semester so you need to plan accordingly. Although it is possible to start the program in the Spring semester, it is strongly recommended that you meet with the program academic advisor prior to start the program to plan your schedule and to help you select the right courses for that semester.

Orientation sessions are offered before the start of every semester to familiarize new and returning students with Blackboard (GateWay's Course Management system for online courses) and to provide additional information about the program. It is **strongly recommended** that new students attend these sessions to be informed about the support available to have a successfully experience at GateWay throughout the semester and program.

As a general guideline, you will be spending about nine (9) hours per week (on average) of your personal time for every three-credit college class. Please take this into account when planning your courses for a given semester.

Many of the Water Resources Technologies courses are online. The hands-on approach is achieved by all-day field sessions that are usually scheduled on Fridays/Saturdays. It is **strongly recommended** that the students do not get disconnected from the program main campus activities. GateWay's **Water Resources Technologies Program** continuously bring to campus many workshops, seminars, water-resources constituent group meetings, professional association meetings, etc. (**free to the students**) to provide networking opportunities. Several of the water resources-related professional associations (such as the **Arizona Water Association**, the **Arizona Flood Management Association**, the **Arizona Water Well Association**, the **Arizona Hydrological Society**, the **Environmental Professionals of Arizona**, among others) have special student membership fees and hold meetings at GateWay. Several of these professional organizations support our program by providing scholarship and internship opportunities.

The student club - **Water and Various Environmental Sciences (WAVES)** is another way for developing these networking opportunities through the different field trips and club meetings that are scheduled throughout the school year. <http://www.gatewaycc.edu/Life/Clubs/WAVES.aspx>

The students from the Water Resources Technologies program have access to free tutoring services through the GateWay Learning Center. The center provides tutoring support for general education courses. The center also provides tutoring support for the more specialized WRT courses. All of the WRT tutors are professionals working in the Water Resources area (*in state, county and local government agencies, private consulting companies*) or are *plant managers for the local water/wastewater treatment plants*. Many have already the proper professional registrations or certifications. These specialized tutors also support the WRT program as adjunct faculty.

The GateWay library has developed a special "virtual" area for the Water Resources Technologies Program. This area contains ample information about internet resources specific for the program (<http://libguides.gatewaycc.edu/waterguide>) specifically for the online courses. It also contains links to citation guides to help the students referencing materials.

Although the WRT program **does not** guarantee internships or jobs to the students, the program has developed special agreements with local municipalities and other institutions that have established special paid/volunteer internship positions within their organizations to provide additional hands-on experience to the students. One of these organizations has developed an apprenticeship program to address their needs for certified operators. This organization has selected the GateWay's WRT program to provide the education component for their apprenticeship program.

PROGRAM COSTS

Water Resources Technology Degree Cost Estimates

Program	Tuition	Course Fees	Total
Associate of Applied Science: Track in Hydrologic Studies	\$6,545	\$595	\$7,140
Associate of Applied Science: Track in Water or Wastewater Treatment	\$6,375	\$520	\$6,895
Certificate of Completion: Water Treatment/Wastewater	\$2,210	\$520	\$2,730

Please note that these are only estimates, based on the maximum number of credits needed, and do not include books. These estimates may change based on increases to tuition, course fees and book costs. Estimates are based on the 2018 - 2019 tuition rates for in-county students. Additional fees may apply.

COLLEGE CONTACT INFORMATION

Admissions, Registration and Records.....	(602) 286-8200
Adult Re-Entry.....	(602) 286-8900
Apprenticeship Programs.....	(602) 286-8681
Assessment/Testing Center.....	(602) 286-8160
Bookstore.....	(602) 286-8400
Cafeteria.....	(602) 286-8308
Career and Employment Services Center.....	(602) 286-8500
College Safety.....	(602) 286-8911
Cashier's Office.....	(602) 286-8277
Cashier's TIP Hotline.....	(602) 286-8286
Children's Learning Center.....	(602) 286-8130
College Information.....	(602) 286-8000
Counseling.....	(602) 286-8900
Disability Services.....	(602) 286-8170
Financial Aid.....	(602) 286-8300
Institute for Computer Training (ICT) Lab.....	(602) 286-8568
Learning Center.....	(602) 286-8800
Library.....	(602) 286-8454
Phone Registration.....	(602) 286-8100
Student Activities/Clubs.....	(602) 286-8700
Veterans Services.....	(602) 286-8076