

ASSOCIATE OF APPLIED SCIENCE (A.A.S.)

GATEWAY COMMUNITY COLLEGE UNOFFICIAL ADVISEMENT CHECK SHEET

Description: The Associate in Applied Science (AAS) in Environmental Science and Water Resources Technologies program is designed to prepare students in theoretical and practical hands-on training in the monitoring of water quality and quantity as well as in water, wastewater, 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 take part in the operation, calibration, and maintenance of water monitoring field instruments and water and wastewater treatment monitor field equipment. The program assists students in their preparation for ADEQ examinations in both water and wastewater treatment.

NAME	SID	LAST REVISED DATE	MAJOR CODE: 3830 Water Resources Technologies
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+ ADMISSIONS CRITERIA: Formal application and admission to the program is required. Placement into MAT120, MAT121, MAT122, MAT150, MAT151, MAT152 or higher level mathematics course for which College Algebra is a prerequisite.

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

+ indicates course has prerequisites and/or corequisites.

++ indicates any suffixed course.

Water and Wastewater Treatment (47 credits)

Must earn "C" or higher in all courses within the program	CREDITS	GRADE	COMMENTS
FALL			
WRT100 INTRODUCTION TO WATER RESOURCES	3		
WRT115 WATER TECHNOLOGY CALCULATIONS	3		
WRT110 PRINCIPLES OF WATER TREATMENT PLANT OPERATIONS	3		
WRT140 WATER QUALITY FOR TREATMENT INDUSTRY	5		
RECOMMEND GENERAL EDUCATION CLASS	3		
SPRING			
WRT121 OPERATION OF WASTEWATER TREATMENT PLANTS	3		
WRT131 WASTEWATER COLLECTION SYSTEMS OPERATION & MAINTENANCE	3		
WRT134 WATER DISTRIBUTION SYSTEM OPERATION & MAINTENANCE	3		
WRT190AA WATER RESOURCES TECHNOLOGIES SEMINAR 1	1		
WRT 204 WATER/WASTEWATER MAINTENANCE/MECHANICAL SYSTEMS	3		
RECOMMEND GENERAL EDUCATION CLASS	3		
FALL			
WRT200 INDUSTRIAL PRE-TREATMENT	3		
BIO105 ENVIRONMENTAL BIOLOGY	4		
BPC110 OR CIS105 COMPUTER USAGE AND APPLICATIONS	3		
RECOMMEND GENERAL EDUCATION CLASS	3		
SPRING			
WRT153 ENVIRONMENTAL LAW & REGULATIONS	3		
WRT221 WATER AND WASTEWATER TREATMENT PLANTS ADMINISTRATION	3		
WRT240 WATER QUALITY	3		
WRT240LL WATER QUALITY FIELD TECHNIQUES	1		
RECOMMEND GENERAL EDUCATION CLASS	3		
RESTRICTIVE ELECTIVES (0-6 CREDITS)			
WRT ELECTIVE			

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III. GENERAL EDUCATION REQUIREMENTS (22-27 CREDITS)			
ENG101 or ENG107	3		
ENG102 or ENG108 or ENG111	3		
COM100 or 110 or 225 or 230	3		
CRE111 or Test Exempt	0-3		
MAT120 or 121 or 122 Intermediate Algebra (For students intending to transfer to the university MAT150, MAT151 or MAT152 is recommended).	3-5		
CHM130/LL or CHM130AA or GLG110/111LL	4		
Humanities/Fine Arts*	2-3		
Social/Behavior Science*	3		
<i>This is an unofficial advisement checksheet developed by the Industrial Technology Division. No certificate or degree is considered official until it has been reviewed and approved by the Admissions and Records Department.</i> <i>*Courses must meet AAS General Education Requirements (see catalog).</i>			

The official curriculum outline for this program is located on the Maricopa Community Colleges Curriculum & Transfer Articulation site at: <http://aztransmac2.asu.edu/cgi-bin/WebObjects/MCCCD.woa/wa/freeForm13?id=143267>

Restrictive Electives

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.

WRT+++++ Any WRT Water Resource Technology course(s)
 AAA/CPD150 Strategies for College Success 3

Students may select only ONE of the three internship courses below for a restrictive elective. Internship courses may not be taken more than once:

- + WRT270AA Water Resources Internship (1) OR
- + WRT270AB Water Resources Internship (2) OR
- + WRT270AC Water Resources Internship (3) 3