

# DEPARTMENT OF MATHEMATICAL, PHYSICAL, AND ENGINEERING SCIENCES

WATR 5370	US-Mexico Borderlands and Interjurisdictional Water Issues and Policies	3
WATR 5371	Independent Study	3

## Mission

The Department of Mathematical, Physical, and Engineering Sciences at Texas A&M University-San Antonio strives to provide a rich educational experience for STEM students through face-to-face instruction, on-line learning, and hybrid courses with small class sizes and state-of-the-art technology. We emphasize hands-on experiential learning and critical thinking, and the participation of undergraduate students under our faculty's mentorship. We strive to provide our students with leadership skills and values to prepare them for the work-place, for advanced study, and for an ever-changing world.

## Contact Information

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Department Chair  
STEM 311G

## Programs

- Water Resources Science and Technology, Master of Science (<https://catalog.tamusa.edu/graduate/arts-sciences/mathematical-physical-engineering-sciences/water-resources-technology-ms/>)

## Courses

### Water Resources Science and Technology

Code	Title	Credits
WATR 5111	Graduate Seminar	1
WATR 5214	Nexus of Water, Energy, and Food	2
WATR 5305	Research Project	3
WATR 5306	Thesis	3
WATR 5312	Water Laws, Rules and Policy	3
WATR 5314	Pollutants in Environmental Systems	3
WATR 5315	Advanced Municipal and Industrial Wastewater Treatment and Recycling Systems	3
WATR 5320	Statistical Methods in Research	3
WATR 5322	Wastewater Treatment for Direct and Indirect Uses	3
WATR 5325	Natural and Constructed Green Systems for Wastewater Management	3
WATR 5330	Water Resources Science and Technology Internship	3
WATR 5335	Desalination Processes and Emerging Technologies	3
WATR 5345	Environmental Impact Assessment of Water Resources	3
WATR 5350	Groundwater Management and Field Investigations	3
WATR 5355	Institutions and Their Role in Water Resources Management	3
WATR 5360	Water Resources Sustainable Use and Conservation Policy and Practice	3
WATR 5365	Water Policy Institution Internship	3