

Industry Sector: Agriculture and Natural Resources

Pathway: Water Resources Management – AS



California Program of Study

Level	Grade	English Language Arts	Math	Social Studies	Science	Career Technical Education Course	Other Required Courses or Recommended Electives		Sample Occupations relating to this pathway (Including SOC Code)
High School	9	English	Math	Social Science	Science		Physical Education		Occupations requiring a high school diploma <ul style="list-style-type: none"> ➤ Ditch Tender ➤ Utility Worker ➤ Meter Reader ➤ River Guide
	10	English	Math	World History	Science		Physical Education	Visual/Performing Arts or Foreign Language	
High School	11	English		US History					
	12	English (Recommended)		Civics and American Government					
(High School courses listed in the light green and yellow areas are the Minimum State High School Graduation requirements)									Occupations requiring some post-secondary <ul style="list-style-type: none"> ➤ Wastewater Treatment Plant Operator ➤ Drinking Water Treatment Plant Operator ➤ Water Use Efficiency Practitioner Occupations requiring a 2 year Degree <ul style="list-style-type: none"> ➤ Watershed Manager ➤ Utility Foreman ➤ Lab Technician Occupations requiring a BA/BS Degree <ul style="list-style-type: none"> ➤ Utility District Manager ➤ Fisheries Biologist ➤ Regulatory Inspector
As Degree Suggested Course Sequence Years 1 & 2									
13	Fall Year 1		Spring Year 1		Fall Year 2		Spring Year 2		
	FNR 1 Environmental Conservation (3) <i>(Meets GE – AREA D)</i>		Complete three courses: FNR 30 Intro Watershed Manage (3) FNR 63 Water for Consumption (3) FNR 64 Water Infrastructure in CA (3) FNR 65 Rural Wastewater (3) FNR 66 Decentralized Wastewater Manage (3) FNR 67 Operation of Wastewater Treatment 1 (3) FNR 69 Operation of Wastewater Treatment 2 (3) FNR 71 Water Use Efficiency (3)		Complete three courses: FNR 30 Intro Watershed Manage (3) FNR 63 Water for Consumption (3) FNR 64 Water Infrastructure in CA (3) FNR 65 Rural Wastewater (3) FNR 66 Decentralized Wastewater Manage (3) FNR 67 Operation of Wastewater Treatment 1 (3) FNR 69 Operation of Wastewater Treatment 2 (3) FNR 71 Water Use Efficiency (3)		Complete three courses: FNR 30 Intro Watershed Manage (3) FNR 63 Water for Consumption (3) FNR 64 Water Infrastructure in CA (3) FNR 65 Rural Wastewater (3) FNR 66 Decentralized Wastewater Manage (3) FNR 67 Operation of Wastewater Treatment 1 (3) FNR 69 Operation of Wastewater Treatment 2 (3) FNR 71 Water Use Efficiency (3)		
14	FNR 60 Introduction to Maps and Remote Sensing (2)		Complete one course: CCTIS 59 / GEOGR 59 Geographic Info/Global Positioning CCTIS 60 / GEOGR 60 Introduction to Arc GIS (3) (Offered Spring only)		Complete two courses: BIOL 24 General Ecology BIOL 65 Microbiology BIOL 179 Fishing/Fishery Biology ESC 5 Physical Geology ESC 35TR Geology of the Tuolumne River ESC 50 Oceanography ESC 62 Meteorology FNR 3 Natural Resources Law/Policy FNR 6 Soil Resources FNR 11 Natural Resources Field Camp FNR 53 Forest Surveying FNR 183 Ecological Restoration <i>Meets Area B.1 GE (3)</i>		Complete two courses: BIOL 24 General Ecology BIOL 65 Microbiology BIOL 179 Fishing/Fishery Biology ESC 5 Physical Geology ESC 35TR Geology of the Tuolumne River ESC 50 Oceanography ESC 62 Meteorology FNR 3 Natural Resources Law/Policy FNR 6 Soil Resources FNR 11 Natural Resources Field Camp FNR 53 Forest Surveying FNR 183 Ecological Restoration <i>Meets Area B.1 GE (3)</i>		
	FNR 61 Introduction to Water Resources Management (3)		GE (3)		GE (3)		GE (3)		
GE (3)		GE (3)		Physical Education Activity Course (1)		GE (3)			
Physical Education Activity Course (1)									
GE requirements – One each from the following areas: (A.1 or A.3, A.2, B.1 or B.2, Math 104, C.1 or C.2, one course from DO-D9, one course E, plus 1 Physical Education activity courses and one additional unit of activity.)									

