

# Industry Sector: Agriculture and Natural Resources

Pathway: Forestry – Certificate



## 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		<b>Occupations requiring a high school diploma</b> <ul style="list-style-type: none"> <li>➤ Equipment Operator</li> <li>➤ Log Scalar</li> <li>➤ Millwright</li> <li>➤ Lumber grader</li> </ul> <b>Occupations requiring some post-secondary</b> <ul style="list-style-type: none"> <li>➤ Biology technician</li> <li>➤ GIS technician</li> <li>➤ Recreation technician</li> </ul>	
	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)									<b>Occupations requiring a 2 year Degree</b> <ul style="list-style-type: none"> <li>➤ Timber Cruiser</li> <li>➤ Interpreter</li> <li>➤ Utility Forester</li> </ul> <b>Occupations requiring a BA/BS Degree</b> <ul style="list-style-type: none"> <li>➤ Silviculturist</li> <li>➤ Resource Officer</li> <li>➤ Ecologist</li> </ul> <b>Industry recognized certifications, licenses, credentials or apprenticeships related to this pathway.</b> <ul style="list-style-type: none"> <li>➤ Registered professional Forester</li> <li>➤ ISA Certified Arborist</li> <li>➤ Applicator's license</li> <li>➤ Class B driver license</li> </ul>	
13	<b>As Degree Suggested Course Sequence Years 1 &amp; 2</b>									
		<b>Fall Year 1</b>	<b>Spring Year 1</b>	<b>Summer</b>	<b>Fall Year 2</b>	<b>Spring Year 2</b>				
	14		<b>FNR 2</b> Introduction to Forestry (3)	<b>FNR 22</b> Ecology & Use of Fire In Forest Ecosystems (2) <b>FNR 24</b> Fire-Fuels Management (3)	Complete <b>one</b> course: <b>FNR1</b> Environmental Conservation (3) <b>FNR 3</b> Natural Resources Law (3) <b>FNR 9</b> Parks/Forests Law Enforce (2) <b>FNR 185</b> Intro Nat'l Wilderness (1)					
			<b>FNR 6</b> Soil Resources (3)	<b>FNR 53</b> Forest Surveying (3)	Complete <b>one</b> course: <b>BIOL</b> 39, 40, 158, 159, 160, 179; <b>ESC</b> 35; <b>FNR</b> 11, 12, 50, 172, 173, 182, 183					
		<b>FNR 10</b> Dendrology (3)	Complete <b>one</b> course: <b>BIOL 24</b> Ecology (4) <b>ESC 5</b> Physical Geology (4) <b>FNR 30</b> - Intro to Watershed Management (3) <b>FNR 81</b> CA Wildlife (3)	<b>FNR 62</b> Applied Forest Inventory and Management (2)						
	<b>FNR 60</b> Introduction to Maps and Remote Sensing (2)	<b>CCTIS 59 –or- GEOGR 59</b> Geographic Info & Global Positioning (1-3) <b>CCTIS 60 –or- GEOGR 60</b> Introduction to Arc GIS (3) (offered Spring only) ***								

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