Florida CTE

Agriculture, Food, and Natural Resources: Natural Resource Technology

Utilize data and resources - the student will be able to: CTE.NRT.21.0	**A** Utilize word processing, databases, computer graphics, statistics programs, spreadsheets, Internet, and GIS. CTE.NRT.21.01
	B Locate and interpret reference materials. CTE.NRT.21.02
	C Maintain necessary/required record keeping practices and procedures. CTE.NRT.21.03
	D Discuss Federal and state requirements for (TMDL) Total Maximum daily loads and minimum flows and levels. CTE.NRT.21.04
	E Describe the establishment and implementation of TMDL in Florida. CTE.NRT.21.05
	F Identify potential sources of point and non-point pollution. CTE.NRT.21.06
	G Identify the five water management districts in Florida. CTE.NRT.21.07
	H Define minimum flows and levels for a water management district. CTE.NRT.21.08
Determine the quality and quantity of water resources – the student will be able to CTE.NRT.22.0	**A** Understand pretreatment, primary, secondary, and tertiary treatment processes of wastewater. CTE.NRT.22.01
	B Describe wastewater disposal options. CTE.NRT.22.02
	C Identify septic tanks types and functions. CTE.NRT.22.03
	D Determine water quality of groundwater, rivers, lakes, and spring water. CTE.NRT.22.04
	E Determine stream flow. CTE.NRT.22.05
	F Collect, store and label water samples from a representative test site. CTE.NRT.22.06
	)etermine the quality of water samples by measuring for pH, turbidity, dissolved **:**olids and dissolved oxygen. CTE.NRT.22.07

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	H Investigate water shed boundaries and drainage patterns. CTE.NRT.22.08
	I Monitor water levels of rivers, streams, ponds and lakes. CTE.NRT.22.09
Describe stormwater systems – the student will be able to: CTE.NRT.23.0	A Demonstrate knowledge of runoff through use of terminology CTE.NRT.23.01
	B Recognize soil types and land cover as related to runoff. CTE.NRT.23.02
	C Recognize erosion, non-point source pollution and erosion control methods. CTE.NRT.23.03
	D Define topography and groundcover and its effects on stormwater. CTE.NRT.23.04
Develop map reading skills – the student will be able to: CTE.NRT.24.0	A Review aerial maps. CTE.NRT.24.01
	B Interpret topographical and flood plain maps. CTE.NRT.24.02
	C Interpret legal land descriptions. CTE.NRT.24.03
	D Interpret current and historical aerial photography for land cover and land use applications. CTE.NRT.24.04
	F Explain topographic map symbols and legends. CTE.NRT.24.05
	G Measure acreage on maps. CTE.NRT.24.06
	H Determine location and other information from maps, using technology such as Global Positioning System (GPS) and/or compass. CTE.NRT.24.07
Use Geographic Informational (GIS) and Global Positioning (GPS) Systems – the student will be able to: CTE.NRT.25.0	A Define GIS and its function. CTE.NRT.25.01
	B Use GIS software. CTE.NRT.25.02
	C Learn GIS applications. CTE.NRT.25.03
	D Define GPS and its function. CTE.NRT.25.04
	E Collect GPS data and load on GIS. CTE.NRT.25.05
	F Identify other remote sensing tools. CTE.NRT.25.06
Describe procedures for managing hazardous materials – the student will be able to: CTE.NRT.26.0	A Describe flow and life cycles of materials. CTE.NRT.26.01
	B Identify proper chemical handling and storage guidelines. CTE.NRT.26.02
	C Describe material management procedures. CTE.NRT.26.03
	dentify waste minimization, pollution prevention and alternatives to Jisposal. CTE.NRT.26.04

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	E Describe shipping and transportation procedures for hazardous materials. CTE.NRT.26.05
	F Identify principles of toxicology. CTE.NRT.26.06
	G Identify routes of exposure. CTE.NRT.26.07
	H Discuss common chemical compatibility. CTE.NRT.26.08
Prepare a plan for a mock disaster activity – the student will be able to: CTE.NRT.27.0	**A** Describe the need for and types of pre-planning. CTE.NRT.27.01
	B Identify and select necessary agency involvement for the type of disaster. CTE.NRT.27.02
	C Identify possible areas and types of impacts CTE.NRT.27.03
	D Write and evaluate contingency plans. CTE.NRT.27.04
	E Create a plan for a disaster clean up including needed materials and equipment. CTE.NRT.27.05
Identify career opportunities and organizational dynamics – the student will be able to: CTE.NRT.28.0	**A** Identify careers and opportunities in the following fields: agriculture, Surface/stormwater, drinking water, wastewater, groundwater, land resources, air quality, solid waste, and HAZMAT. CTE.NRT.28.01
	B Identify the opportunities for leadership development available through an appropriate student and/or professional organization. CTE.NRT.28.02