Georgia CTAE

Textile Science (2013)

Demonstrate employability skills required by business and industry. HUM-TS-1	1 **Communicate effectively through writing, speaking, listening, reading, and interpersonal abilities.** HUM-TS-1.1
	2 **Demonstrate creativity by asking challenging questions and applying innovative procedures and methods.** HUM-TS-1.2
	3 **Exhibit critical thinking and problem solving skills to locate, analyze and apply information in career planning and employment situations.** HUM-TS-1.3
	4 **Model work readiness traits required for success in the workplace including integrity, honesty, accountability, punctuality, time management, and respect for diversity.** HUM-TS-1.4
	5 **Apply the appropriate skill sets to be productive in a changing, technological, diverse workplace to be able to work independently and apply team work skills.** HUM-TS-1.5
	6 **Present a professional image through appearance, behavior and language.** HUM-TS-1.6
Examine the various career opportunities within the textile industry. HUM-TS-2	1 **Research and evaluate careers where knowledge of textile sciences is required or valuable.** HUM-TS-2.1
	2 **Analyze the future employment outlook in the textile industry.** HUM-TS-2.2
	3 **Describe levels of employment and entrepreneurial opportunities in the textile industry and local sources of employment information.** HUM-TS-2.3
	4 **Determine continuing-education opportunities that enhance career advancement.** HUM-TS-2.4
	1 **Examine the construction and use of textiles from antiquity to the industrial revolution.** HUM-TS-3.1
Develop a general knowledge of textiles from a historical perspective to current ap	3 **Develop a general knowledge of textiles from a historical perspective to current applications.** HUM-TS-3

Skip to main content

Investigate, describe and recognize fiber characteristics and properties. HUM-TS-4	2	**Examine the construction and use of textiles from the industrial revolution through the 21st century.** HUM-TS-3.2
	1	**Analyze and identify natural and man-made fibers.** HUM-TS-4.1
	2	**Investigate aesthetic features, mechanical properties, and chemical properties of all fibers.** HUM-TS-4.2
	3	**Demonstrate fiber identification by burning.** HUM-TS-4.4
Examine and identify the fabrication and properties of yarns. HUM-TS-5	1	**Analyze and identify simple and complex yarns.** HUM-TS-5.1
	2	**Investigate aesthetic features, mechanical properties, and chemical properties of all yarn constructions.** HUM-TS-5.2
	3	**Identify textured yarns and describe the effect on fabrics.** HUM-TS-5.3
	4	**Differentiate yarns within fabric structures.** HUM-TS-5.4
Examine and identify the fabrication and properties of yarns. HUM-TS-6	1	**Identify woven fabrics and determine use for apparel and/or interiors.** HUM-TS-6.1
	2	**Identify non-woven fabrics and the most appropriate use for apparel and/or interiors.** HUM-TS-6.2
	3	**Identify knitted fabrics and the most appropriate use for apparel and/or interiors.** HUM-TS-6.3
	4	**Identify the origin of all fabrics, including Animal (Sheep) wool, and Insects (Worms) silks.** HUM-TS-6.4
Demonstrate an understanding of textile finishes and methods. HUM-TS-7	1	**Compare and contrast mechanical, chemical, and functional finishes.** HUM-TS-7.1
	2	**Demonstrate and identify fiber finishes through swatch tests, and the importance, if fabrics are not tested correctly, can create huge problems with the end product.** HUM-TS-7.2
	3	**Compare and contrast printing and dyeing methods.** HUM-TS-7.3
	4	**Demonstrate and identify printing and dyeing method.** HUM-TS-7.4
	5	**Identify the different results you can achieve printing and dyeing natural and synthetic fibers.** HUM-TS-7.5
Analyze the characteristics and maintenance concepts of	1	**Research various testing methods for textiles.** HUM-TS-8.1
	2	**Read and interpret textile labels used for interiors and apparel.** HUM-TS-8.2
TS-		**iscuss current environmental issues relevant to the textile industry.** HUM-TS-8.3

Skip to main content

Distinguish the characteristics and identify the appropriate use of textiles for apparel and/or interiors. HUM-TS-9	1 **Evaluate common textiles used for interiors.** HUM-TS-9.1
	2 **Evaluate common textiles used for apparel.** HUM-TS-9.2
	3 **Evaluate common textiles used for industrial applications.** HUM-TS-9.3
Investigate how trends and color forecasting are used in the development of new products. HUM-TS-10	1 **Investigate textile for interiors.** HUM-TS-10.1
	2 **Investigate textiles for apparel.** HUM-TS-10.2
	3 **Investigate textiles for industrial applications.** HUM-TS-10.3
Examine the continuing use of technology in advancing textile products using innovative skills and tests. HUM-TS-11	1 **Discuss the role textiles play in sports equipment, (e.g., sweat absorbent finishes (wicking), antibacterial finishes).** HUM-TS-11.1
	2 **Identify how textiles are being used in the medical field.** HUM-TS-11.2
	3 **Discuss the careers that rely on wearing textiles, including uniforms to body armor.** HUM-TS-11.3
Research legislation on the federal, state and local levels that regulate the textile industry. HUM-TS-12	1 **Analyze legislation, regulations, and public policy affecting the textile industry, including labeling laws.** HUM-TS-12.1
	2 **Analyze personal and employer responsibilities and liabilities regarding industry related safety, security, and environmental factors.** HUM-TS-12.2
	3 **Discuss the reason why most companies are manufacturing products overseas, and the affect that has on the United States.** HUM-TS-12.3