Correlation of

Principles of Floral Design

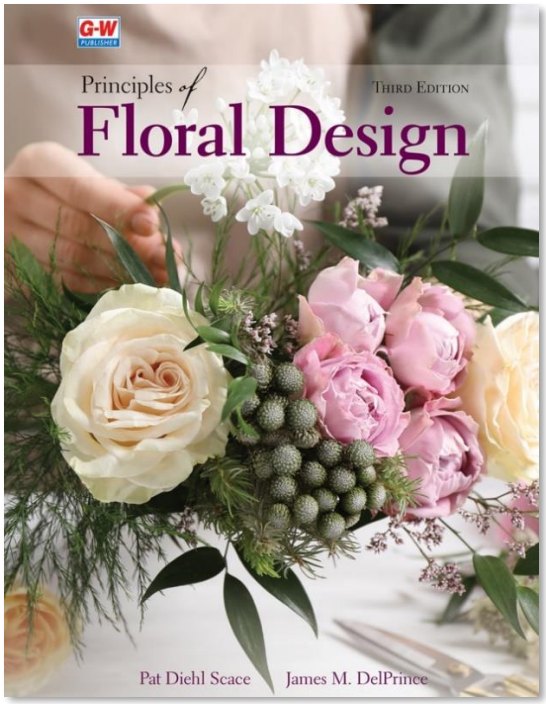
Pat Diehl Scace, James M. DelPrince

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to

2024 Texas TEKS

127.53 Floral Design



Knowledge and Skills	Narrative Location	Related Activities
TX-(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:		
TX-(1)(A) identify career and entrepreneurship opportunities for a chosen occupation in the field of floral design and develop a plan for obtaining the education training, and certifications required.	Wholesale Florists pp11-12 Retail Florists pp11-15 Floral Designers pp15-19 Interiorscape Designers p19 Chapter 2 Career Planning pp31-59 National FFA Organization pp32-36 Internships and Job Shadowing p34 Career and Leadership Events pp34-35 Types of SAEs p33 Training Wholesale Florists pp11-12 Retail Florists pp11-15 Floral Designers pp15-19 Interiorscape Designers p19 Chapter 2 Career Planning pp31-59 National FFA Organization pp32-36 (continued)	SA #1, p28 SA #3, p58 CA #1, p58 SP #1-2, p59 SP #2, p103 SP #1, p137 SP #1, p181 SP #1, p161 SP #2, p375

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Knowledge and Skills	Narrative Location	Related Activities
TX-(1)(A) identify career and entrepreneurship opportunities for a chosen occupation in the field of floral design and develop a plan for obtaining the education training, and certifications required.	(continued) Internships and Job Shadowing p34 Career and Leadership Events pp34-35 Types of SAEs p33 Training and Education in Floriculture pp32-38 Continuing Education p36 Associations p37 Certification pp38-41 Career Connections David Armellini, CEO, Armellini Logistics p26 Tanis Clifton, Happy Trails Flower Farm p55 Corri Levelle, Designing for Film and TV, North Hollywood, CA p80 Brent Leech AIFD, Arizona Family Florist and Flower Market p98 Kevin Ylvisaker AIFD, PFCI, CAFA, Smithers-Oasis p123 Michelle Jones, Ph.D., Ohio State University p158 Kevin O'Malley, Marvin's Flower Gardens, Indianapolis, IN p174 Laura Dowling, Author, former Chief Floral Designer at the White House p203 Per Benjamin, Master Florist p227 Paul Miller AIFD, Product Developer, Sunshine Bouquet Co. p250 Dr. Tessie Armore, Researcher, University of Hawaii p296 Hitomi Gilliam AIFD, DESIGN358 p336 Ian Prosser AIFD p368 Jodi McShan, McShan Florist, Dallas, Texas p403 Ken Senter AIFD, The Senterpiece, Wedding & Event Planning p436 Pete Samek AIFD, Florists' Transworld Delivery p469 Lynne Moss, The Flower Shoppe, Pratt, Kansas p515 Charlie Groppetti, Porch View Home p537 Michael J. Skaff AIFD, Savannah Interior Plant Designs, LLC p582 Laurel Hollopeter AIFD, Hy-Vee's p631	

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Knowledge and Skills	Narrative Location	Related Activities
TX-(1)(B) model professionalism by continuously exhibiting appropriate work habits, solving problems, taking initiative, communicating effectively, listening actively, and thinking critically	Succeeding in the Workplace pp47-54 Professional Behavior p47 Reliability and Time Management p48 Showing Initiative p48 Social Media and Internet Etiquette pp51-52 Interpersonal Skills p52 Ethical Workplace Behavior p53 Business Operation p610	**NOTE:** *Critical Thinking questions and activities are included at the end of each chapter.* CA #1, p83 CT #1-4, p57 CT #1-2, p101 CT #1-2, 160 CT #1-4, p206 CT #1-2, p254 CT #1-5, p352 CT #1, p408 CT #3, p487 CT #1-6, p633 CT #1-7, P28 CT #1-3, p82 CT #1-2, p136 CT #1-2, p180 CT #1-2, p229 CT #1-3, p298 CT #1-4, p374 CT #1, p444 CT #4-5, p590
TX-(1)(C) model appropriate personal and occupational safety and health practices and explain the importance of established safety and health protocols for the workplace;	Chapter 4 Safe Work Practices pp85-103 Personal Protective Equipment pp86-89 Chemical Hazards p90 Chemical Safety pp92-93 Pesticides and Herbicides pp92-93 Chemical Labels p93 Cleaning While Working pp93-94 Maintaining a Safe Workplace pp93-94 Keeping and Caring for Tools p122	CT #1-2, p101 SA #1-4, p102 CA #1-2, p102 SP #1-3, p103
TX-(1)(D) analyze and interpret the rights and responsibilities, including ethical conduct and legal responsibilities of employers and employees; and	Succeeding in the Workplace pp47-54 Professional Behavior p47 Social Media and Internet Etiquette pp51-52 Ethical Workplace Behavior p53	CA #1-2, p58 SP #3, p59
TX-(1)(E) analyze the importance of exhibiting good citizenship and describe the effects of good citizenship on the development of home, school, workplace, and community.	Leadership pp52-53 National FFA Organization: Leadership and Career Success p54	SP #1-3 p54 SP #5 p59 SP #6 p59
TX-(2) The student develops an improved supervised agricultural experience program. The student is expected to:		**NOTE:** Student projects at the end of each chapter may be used as SAE opportunities.
TX-(2)(A) plan, propose, conduct, document and evaluate a supervised agricultural experience as an experiential learning activity;	National FFA Organization p32 Types of SAEs p33 Setting Goals p34 Internships and Job Shadowing p34 Competitions p34 Career and Leadership Development Events pp34-35	SP #1, p83 SP #2, p103 SP #1, p137 SP #3, p353
TX-(2)(B) use appropriate record-keeping skills in a supervised agricultural experience program;	National FFA Organization pp32-33 National FFA Organization: Leadership and Career Success p54	SP #1, p83 SP #2, p103 SP #1, p137

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Knowledge and Skills	Narrative Location	Related Activities
TX-(2)(C) participate in youth agricultural leadership opportunities;	National FFA Organization pp32-33 National FFA Organization: Leadership and Career Success p54	SP #1-3 p54 SP #5 p59 SP #6 p59
TX-(2)(D) review and participate in a local program of activities; and	National FFA Organization: Leadership and Career Success p54 National FFA Organization: Program of Activities p54	SP #1-3 p54 SP #5 p59
TX-(2)(E) create or update documentation of relevant agricultural experience such as community service, professional or classroom experiences. **NOTE:** Student projects at the end of each chapter may be used as SAE opportunities requiring documentation.	National FFA Organization pp32-33 National FFA Organization: Leadership and Career Success p54	SP #1-4 p29 SP #1-6 p59 SP #1-3 p103 SP #1-4 p161 SP #1-3 p207 SP #1-3 p255 SP #1-4 p299 SP #1-3 p375 SP #1-2 p445 SP #1-3 p519 SP #1-5 p591 SP #1-2 p54 SP #1-4 p83 SP #1-4 p137 SP #1-4 p181 SP #1-2 p231 SP #1-4 p299 SP #1-3 p353 SP #1-3 p409 SP #1-4 p489 SP #1-3 p551 SP #1-5 p635
TX-(3) The student identifies elements and principles of design in floral art in both historical and current contexts.		
TX-(3)(A) identify the historic trends and characteristics of floral art, as it relates to current industry practices;	Chapter 3 History of Floral Design pp61-83 Ancient Civilizations pp62-66 Middle Ages pp66-67 Renaissance pp67-68 Tulipmania pp68-69 Colonial Period pp69-70 Classical Revival pp70-72 Victorian Era pp72-76 Art Nouveau and Art Deco p76 Modern Period pp77-78 1960s to Today pp78-79	CT #1-3, p82 CA #1, p83 SA #4, p83 SP #2, p83 SA #5, p254 SP #2, p409 SP #1, p445 SP #4, p489
TX-(3)(B) identify design elements in floral art, including color, texture, form, line, space, pattern, and fragrance;	Chapter 9 Elements of Design pp209-231 Applying the Elements pp217-226 Line Flowers p217 Form Flowers p218 Line pp219-221 Space pp222-223 Texture pp223-226	CT #4, p206 SA #6-7, p230 CA #1-2, p230 CA #1, p409

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Knowledge and Skills	Narrative Location	Related Activities
TX-(3)(C) identify design principles in floral art, such rhythm, balance, proportion, dominance, contrast, harmony, and unity;	Chapter 8 Principles of Design pp183-207 Balance pp185-190 Proportion pp190-193 Scale pp193-195 Dominance pp195-197 Focal Point pp196-197 Contrast p197 Rhythm pp198-199 Harmony pp199-200 Unity pp200-202 Pattern p222	CT #4, p206 SA #2, 5-6, p206 CA #1-2, p207 SP #2-3, p207 CT #5, p352
TX-(3)(D) compare the forms and functions of flowers and foliage, including form, mass, line, and filler.	Plant Morphology pp140-142 Creating Emphasis p197 Mass Flowers pp217-218 Line Flowers p217 Form Flowers p218 Filler Flowers p218 Figure 9-11, p219 Line pp219-221 Choosing Foliage pp224-225 Placement p234 Form pp244-245 Figure 10-18, p245 Line Designs pp334-335 Mass Designs pp335-337 The Line-Mass Continuum pp334-338 Line-Mass Designs p338	CT #1-2, 160 SP #3, p207
TX-(4) The student demonstrates elements and principles through the creation of floral designs using flowers and plants. The student is expected to:		
TX-(4)(A) create and evaluate floral arrangements using cut flowers, including bud vase, round, symmetrical, and asymmetrical designs;	Circular Styles, pp322-326 Triangular Styles pp327-328 Square Styles p334 Asymmetrical Designs p189 Line Designs pp334-335 Asymmetrical Designs p189 Line pp219-221 Pattern p222 Symmetrical Designs p189	SBS Round Arrangement p325 SBS Asymmetrical Triangle p329 SBS Equilateral Triangle p330 SBS Long and Low or Double-Ended Triangle p332 SBS A Dozen Roses for Valentine's Day p450 SBS Mother's Day Arrangement with a Natural Armature p453 SBS The All-Occasion Round Arrangement p468

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Knowledge and Skills	Narrative Location	Related Activities
TX-(4)(B) prepare and evaluate floral designs using permanent botanicals, such as homecoming mums;	Chrysanthemum Corsages pp382-383 Applications for Permanent Botanicals pp522-524 Types of Artificial Flowers pp524-525 Mechanics for Permanent Botanicals pp525-527 Designing with Permanent Botanicals pp534-536 Growing and Harvesting pp536-537 Drying Methods pp538-548	CA #2, p409 CT #1-2, p550 SA #1-2, #4, #6 CA #1, p551 SP #1-3, p551 SBS Binding, Banding, and Bundling p529 SBS A Fresh-to-Dried Floral Wreath p531 SBS Adding Artificial Botanicals to a Wreath p532 SBS Small Wreath for Table Décor p533 SBS Adding Permanent Botanicals to Planters p578
TX-(4)(C) prepare corsages and boutonnieres;	Bouquet and Corsage Holders p129 Chapter 14 Flowers to Wear and Carry pp377-409 Boutonnieres pp378-379 Corsages pp379-381 Designing Flowers to Wear pp381-382 Wiring Flowers to Wear pp382-395 Corsage Design Considerations pp395-396 Preparation and Construction pp396-397	SP #3-4, p137 CT #1, p298 CT #1-2, #5, p408 SA #1-2, #5-7, #9, p408 SBS Constructing a Corsage p390 SBS Wrapping a Boutonniere Stem with Ribbon p392 SBS Pinning a Boutonniere or Corsage p393 SBS Glued Mechanic Wrist Corsage p394
TX-(4)(D) prepare floral designs for specific holidays and cultural occasions, such as weddings and funerals;	Chapter 12 Types of Floral Design pp321-353 Chapter 13 Site Assessment and Theme Development pp355-375 Chapter 14 Flowers to Wear and Carry pp377-409 Chapter 15 Wedding Flowers pp411-445 Chapter 16 Designing for Holidays and Special Occasions pp447-489 Chapter 17 Sympathy Flowers pp491-519	CT #1, p136 SA #3-4, p136 BS Constructing a Corsage p390 SBS Glued Mechanic Wrist Corsage p394 SBS Making a Floral Hairpiece p398 SBS Making a Floral Crown p400 SBS Hand-Tied Bouquet p430 SBS Finishing a Hand-Tied Bouquet p432 SBS Round Bouquet in a Foam Holder p433 SBS Making a Pew Decoration p439 SBS Making a Cake Topper p440 SBS Decorating Cakes with Flowers p441 SBS A Dozen Roses for Valentine's Day p450 SBS Mother's Day Arrangement with a Natural Armature p453 SBS Making a Small Wreath with Wire p454 SBS Making a Traditional Holiday Wreath p456 SBS Making a Holiday Table Centerpiece p457 (*continued*)

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Knowledge and Skills	Narrative Location	Related Activities
(*continued*) TX-(4)(D) prepare floral designs for specific holidays and cultural occasions, such as weddings and funerals;		(*continued*) SBS The All-Occasion Table Centerpiece p459 SBS Patriotic Holiday Arrangement p464 SBS The All-Occasion Round Arrangement p468 SBS Mardi Gras Arrangement p475 SBS St. Patrick's Day Arrangement p477 SBS Halloween Arrangement480 SBS Using a Pumpkin as a Container p482 SBS Making a Half-Couch Casket Spray p502 SBS Making a Set Piece p507 SBS Greening a Papier-Mâché Container p509 SBS Making an Urn-Bearing Floral Design p512 SBS Using a Glue Gun p528 SBS Binding, Banding, and Bundling p529 SBS Basing Techniques p530 SBS A Fresh-to-Dried Floral Wreath p531 SBS Adding Artificial Botanicals to a Wreath p532 SBS Small Wreath for Table Décor p533 SBS Preserving Upright Materials with Glycerin p543 SBS Silica Gel Processing p546 SBS Flower Pressing p548 SBS Creating a Dish Garden p574 SBS Creating a European Dish Garden p575 SBS Adding Fresh Flowers to Planters p577 SBS Adding Permanent Botanicals to Planters p578
TX-(4)(E) create interiorscapes using the elements and principles of floral design;	Chapter 8 Principles of Design pp183-207 Chapter 9 Elements of Design pp209-231 Interiorscaping pp578-579 Green Walls p580 Maintaining Plants pp580-588	SA #4, p590 SA #5, p590

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Knowledge and Skills	Narrative Location	Related Activities
TX-(4)(F) apply proper wiring and taping techniques used in the industry; and	Wire Products p120 Wiring Flowers to Wear pp382-395	SBS Galax Roses p348 SBS Wiring Foliage, Stitch Method p384 SBS Wiring Daisy Chrysanthemums, Hook Method p384 SBS Wired Rose Boutonniere, Pierce Method p385 SBS Wiring Carnations, Cross-pierce Method p386 SBS Wiring Filler Flowers and Foliage, Clutch Method p387 SBS Cymbidium and Cattleya Orchids, Cross-pierce Wiring p387 SBS Standard Chrysanthemum, Insertion Method p388 SBS Wiring Phalaenopsis Orchids p388 SBS Wiring Stephanotis p389
TX-(4)(G) demonstrate safe and proper tool usage in the lab.	Tools for Cutting pp1115-119 Tools for Binding and Adhering pp119-122 Mechanics pp122-124 Floral Foam pp124-128 Wire Mechanics pp128-131 Keeping and Caring for Tools p122	SA #1-2, #7, p136 CA #2, p137 SP #3, p137 SBS Taping Glass p109 SBS Tying a Bow p113-114 SBS Using a Floral Knife p116 SBS Using a Glue Skillet to Attach Foam p121 SBS Foam Fitting and Taping Foam p128 SBS Binding, Banding, and Bundling SBS Using a Glue Gun p528
TX-(5) The student makes informed judgments about personal designs and the designs of others. The student is expected to:		
TX-(5)(A) interpret, evaluate, and justify artistic decisions in personal arrangements;	Chapter 8 Principles of Design pp183-207 Chapter 9 Elements of Design pp209-231	CA #2, p207 CA #3, p255 SA #9, p408 SA #5, p445 CA #2, p445 SA #3, p519
TX-(5)(B) construct a physical or electronic portfolio of personal floral artwork to provide evidence of learning.	Portfolios p44	SA #4, p58 CA #4, p83 CA #1, p230 CA #4, p230 CT #4, p352 CA #1-2, p353 SA #6, #8-9, p408 SA #7, p445 SA #3, p519 CA #2, p551

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Knowledge and Skills	Narrative Location	Related Activities
TX-(6) The student demonstrates contemporary designs and creativity in the floral industry by developing floral design skills. The student is expected to:		
TX-(6)(A) identify and classify specialty floral items for a variety of occasions;	Chapter 5 Containers, Tools, and Mechanics pp105-137 Choosing Containers pp106-111 Ribbons and Bows pp111-115 Tools for Cutting pp1115-119 Tools for Binding and Adhering pp119-122 Mechanics pp122-124 Floral Foam pp124-128 Wire Mechanics pp128-131	SA #1-3, p136 CA #2, p137 SA #4, p83 CA #1, p83
TX-(6)(B) evaluate and appraise floral designs; and	Chapter 8 Principles of Design pp183-207 Chapter 9 Elements of Design pp209-231 Chapter 12 Types of Floral Design pp321-353 Chapter 13 Site Assessment and Theme Development pp355-375 Chapter 14 Flowers to Wear and Carry pp377-409 Chapter 15 Wedding Flowers pp411-445 Chapter 16 Designing for Holidays and Special Occasions pp447-489 Chapter 17 Sympathy Flowers pp491-519	SA #4, p58 CA #1, p230 CT #4, p352 CA #2, p353 SA #8, p408 SA #7, p445 CA #2, p551 CA #4, p83 CA #4, p230 CA #1, p353 SA #6, p408 SA #9, p408 SA #3, p519
TX-(6)(C) create specialty designs to expand artistic expression;	Chapter 12 Types of Floral Design pp321-353 Chapter 13 Site Assessment and Theme Development pp355-375 Chapter 14 Flowers to Wear and Carry pp377-409 Chapter 15 Wedding Flowers pp411-445 Chapter 16 Designing for Holidays and Special Occasions pp447-489 Chapter 17 Sympathy Flowers pp491-519	SA #9, p408 SA #5, p83 SA #6, p83 CA #2, p83
TX-(7) The student recognizes the current industry management and business practices of floral enterprises. The student is expected to:		
TX-(7)(A) identify and classify flowers, foliage, and plants used in floral design; **NOTE:** The Landscaping and Horticulture Virtual Toolbox in the textbook Digital Companion includes images of over 400 floriculture plants, cut flowers, and cut foliage on e-flashcards that can be used by students to practice plant identification. These images are also in the printed and electronic books.	Taxonomy pp142-144 Chapter 10 Flower Selection pp233-283 Chapter 11 Foliage Selection pp285-319 Chapter 19 Maintaining and Decorating Potted Arrangements pp561-607 Cut Flower Illustrated Glossary pp256-283 Cut Foliage Illustrated Glossary pp300-319 Permanent Botanical Glossary pp552-559 Potted Plant Illustrated Glossary pp592-607	SA #3, p160 CA #1, p161 SA #7, p206 SA #2, p298

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Knowledge and Skills	Narrative Location	Related Activities
TX-(7)(B) use temperature, preservatives, and cutting techniques to extend the vase life of floral materials;	Chapter 7 Postharvest Processing, Conditioning, and Storage pp163-181 Cold Chain p164 Cooling p166 Precooling p167 Temperature pp173-174 Relative Humidity and Circulation p175 Citric Acid Application p166 Preservatives p172 Cutting Stems at an Angle p171	SA #5, p161 SBS: Processing and Hydration p169 SP #1, p181
TX-(7)(C) identify tools, chemicals, and equipment used in floral design; **NOTE:** The Landscaping and Horticulture Virtual Toolbox in the textbook Digital Companion includes images of over 80 floriculture tools and supplies on e-flashcards that can be used by students to practice tool and supplies identification.	Chapter 5 Containers, Tools, and Mechanics pp105-137 Choosing Containers pp106-111 Ergonomic Equipment p89 Fire Extinguishers pp96-97 Floral Foam pp124-128 Mechanics pp122-124 Personal Protective Equipment pp86-89 Ribbons and Bows pp111-115 Tools for Binding and Adhering pp119-122 Tools for Cutting pp1115-119 Wire Mechanics pp128-131	SA #2, p136 SA #7, p136 SA #5, p161 CT #2, p352
TX-(7)(D) determine the needs of indoor plants such as fertilizing, lighting, pruning, and watering based on the condition of the plant	Maintaining Plants pp580-588 Light pp582-584 Water pp584-585 Fertilizer p585 Cleaning pp585-586 Pruning Tropical Plants p586 Repotting pp586-587	SP #1, p181 SP #3, p489 CT #1, #6, p590 SP #1-2, p591
TX-(7)(E) identify and manage common pests and diseases that affect the floral industry; **NOTE:** *The Landscaping and Horticulture Virtual Toolbox in the textbook Digital Companion includes images of over 100 plant diseases, physiological problems, and plant pests on e-flashcards that can be used by students to practice plant identification. These images are included in the printed and electronic textbooks.*	Insects and Plant Disease pp587-588 Disease Control p587 Insect Control p588	SP #3, p29 SA #1-2, p102 CA #1, p102 CT #6, p590

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Knowledge and Skills	Narrative Location	Related Activities
TX-(7)(F) prepare cost-effective designs;	Pricing Products pp619-620 Estimating and Planning pp621-622 Pricing Wedding Orders p622 Ordering pp622-623 Profitability p423 Payment Terms p429 Closing the Sale p498 Selling from Available Stock p497	CT #1, p136 SA #3-4, p136 SBS Round Arrangement p325 SBS Asymmetrical Triangle p329 SBS Equilateral Triangle p330 SBS Long and Low or Double-Ended Triangle p332 SBS Covering Mechanics with Sheet Moss p347 SBS Constructing a Corsage p390 SBS Glued Mechanic Wrist Corsage p394 SBS Making a Floral Hairpiece p398 SBS Making a Floral Crown p400 SBS Hand-Tied Bouquet p430 SBS Finishing a Hand-Tied Bouquet p432 SBS Round Bouquet in a Foam Holder p433 SBS Making a Pew Decoration p439 SBS Making a Cake Topper p440 SBS Decorating Cakes with Flowers p441 SBS A Dozen Roses for Valentine's Day p450 SBS Mother's Day Arrangement with a Natural Armature p453 SBS Making a Small Wreath with Wire p454 SBS Making a Traditional Holiday Wreath p456 SBS Making a Holiday Table Centerpiece p457 SBS The All-Occasion Table Centerpiece p459 SBS Patriotic Holiday Arrangement p464 SBS The All-Occasion Round Arrangement p468 SBS Mardi Gras Arrangement p475 SBS St. Patrick's Day Arrangement p477 SBS Halloween Arrangement480 SBS Using a Pumpkin as a Container p482 SBS Making a Half-Couch Casket Spray p502 SBS Making a Set Piece p507 SBS Greening a Papier-Mâché Container p509 SBS Making an Urn-Bearing Floral Design p512 (continued)

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Knowledge and Skills	Narrative Location	Related Activities
TX-(7)(F) prepare cost-effective designs;		(continued) SBS A Fresh-to-Dried Floral Wreath p531 SBS Adding Artificial Botanicals to a Wreath p532 SBS Small Wreath for Table Décor p533 SBS Preserving Upright Materials with Glycerin p543 SBS Creating a Dish Garden p574 SBS Creating a European Dish Garden p575 SBS Adding Fresh Flowers to Planters p577 SBS Adding Permanent Botanicals to Planters p578
TX-(7)(G) apply pricing and order-processing skills; and	Design Costs p251 Focusing on the Bride p425 Organizing the Consultation p425 Pricing Products p619 Estimating and Planning p621 Pricing Wedding Orders p622 Ordering p622	SA #5, p136 SP #4, p137 CT #2, p633 CT #3, p633 CT #5, p633 SA #1, p634
TX-(7)(H) identify packaging, distribution, and setup logistics in the floral industry.	Local Delivery p15 Online and Wire Services p20 Logistics p360 Delivery, Installation, and Removal p623 Internet Sales p627 Wire Services p628	SA #3, p374 CT #4, p444 CA #4, p635 SA #1, #6, p408
TX-(8) The student understands botany and physiology and how they relate to floral design and interiorscapes.		
TX-(8)(A) analyze the structure and functions of indoor plants used in the floral industry; and	Chapter 6 Plant Structures and Functions pp139-161 Floral Design and Plant Morphology pp140-142 Plant Anatomy pp144-152 Plant Physiology pp152-155	SP #2, p591 SP #4, p591 SP #5, p635
TX-(8)(B) identify the structure and functions of flowers used in the floral industry.	Chapter 6 Plant Structures and Functions pp139-161 Floral Design and Plant Morphology pp140-142 Plant Anatomy pp144-152 Plant Physiology pp152-155	CT #1, P28 CT #1, p136 SA #1, p160 SA #6, p161

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