

# **Middle Tennessee Floriculture**

## Purpose

*The Middle Tennessee FFA Floriculture Career Development Event is designed to create an interest in career preparation for all current and future aspects of the floriculture industry through leadership development and hands-on technical skill development using industry standards delivered through the agricultural education curriculum.*

Floriculture is a discipline of horticulture concerned with cultivating flowering and ornamental plants for gardens and the floral industry.

The floriculture industry encompasses the following areas:

- Greenhouse and field production and management.
- Garden center and floral shop management.
- Floral design and management.

## Objectives

- Identify plants, plant materials, supplies and equipment utilized in the floriculture industry.
- Demonstrate an understanding of the biological and scientific principles of plant growth and development. Develop the skills underlying propagation, variety development, growth requirements, growing techniques, harvesting, marketing and maintenance of established floriculture plants.
- Identify and recommend solutions for plant disorders.
- Demonstrate the use of elements and principles of design and develop related skills.
- Evaluate marketable floral products for quality and cultural perfection in the retail industry.
- Identify, select, operate and maintain appropriate supplies and equipment for floriculture production, design and marketing.
- Demonstrate the use of safety procedures and practices in floriculture operations.
- Understand the operation, management and maintenance of facilities for floriculture operations.
- Demonstrate interpersonal skills necessary for successful employment in the floriculture industry.
- Demonstrate proper sales and customer service skills.
- Demonstrate general business practices appropriate to the floriculture industry.
- Effectively work together as a team.

## Event Rules

- Under no circumstances will any participant be allowed to touch or handle plant material during the event except when instructed by the event staff.
- All participants must be prompt at their stations throughout the event. No provision will be made for tardiness, which will, in most cases, cause the late participant to lose event points.
- Participants will not be allowed to swap or share tools (calculators, scissors, wire cutters, etc.) with teammates or other participants.
- All references to time limits are approximate. The committee reserves the right to adjust to the practicum and anticipated skills of the students

## Event Format

### **MATERIALS STUDENTS NEED TO PROVIDE:**

- Clean clipboard, free of notes.
- Two sharpened No. 2 pencils.

- Floral tools and materials may consist of any or all of the following materials:
  - floral scissors,
  - ribbon shears,
  - pruners,
  - wire cutters,
  - floral pliers,
  - green floral tape,
  - green waterproof tape,
  - clear waterproof tape,
  - floral wire,
  - and/or floral adhesive (in dot, strip, or liquid form).
- Tool bag, box, or belt for carrying supplies.
- Calculator — Should be battery operated, non-programmable and non-scientific (basic five function only). No other calculators can be used during the event.
- Contestants will not be allowed to bring any material into the competition area that could be used to enhance the creativity of their design(s) that is not supplied to all participants; this includes but is not limited to, floral ribbon, wired ribbon, decorative wire, bullion wire, and any floral accents. Supplies will be checked at team check-in before the competition starts; unapproved items will be returned to the advisor before students enter the competition area.

**Senior Division** consists of paid FFA members in 9-12 grade.

- In the Senior Division, will follow all of the guidelines below
- The top 4 teams will qualify for the state contest

**Junior Division** consists of paid FFA members in the 6<sup>th</sup>, 7<sup>th</sup>, or 8<sup>th</sup> grades.

- In the Junior Division, all students will only do the identification of plant materials and equipment and a general knowledge exam.
- The TOP 2 teams will be able to make a flower arrangement practicum
- This is ONLY a Regional Event. The winning team does not move on or qualify for the state contest. The winning team will be recognized at the regional banquet.
- If you have not paid your regional dues, you will need to buy your scantrons (\$1 each) when you get to the contest.

## **INDIVIDUAL ACTIVITIES**

### ***Identification of plant materials and equipment (200 points)***

Fifty specimens from the [floriculture plant](#) and [equipment identification](#) lists will be displayed for participants to identify by technical and common names. A number will designate each specimen. Four points will be awarded for each specimen that is correctly identified. Each participant will be allowed 35 minutes to complete this event phase. Up to 15 specimens can be equipment.

### ***General Knowledge Examination (200 points)***

Participants will answer 50 multiple-choice questions to test all areas of the floriculture industry. Each participant will be allowed 50 minutes to complete the exam. The last five years of National FFA Floriculture CDE exams will be used as a test bank.

***\*The ID portion and General Knowledge exam will be used to determine the TOP 10 teams. The TOP 10 teams will then move on to complete the Practicums.***

## *Rotational Practicums (75 Points)*

In addition to the one annual practicums, one practicum will be selected from the list below for each noted year.

### **MAKE A MIXED PLANTER COMBINATION (75 POINTS) (2025)**

Each participant will make up to a \$35 retail-priced mixed combination planter. All plant materials, growing media and containers will be provided. Twenty (20) minutes will be allowed for each participant to make their mixed combination planter and complete the itemized listing of costs. At the beginning of the practicum, the participant will be provided with the retail price of plants and other materials to be used in their mixed combination planter. The markup is built into the retail price. The selection of materials should be combined to create a floral display according to acceptable retail practices, using appropriate elements and principles of design within the floral industry. Scoring criteria are presented on the [Making a Mixed Combination Planter Rubric](#), which a judge will record.

### **CREATE AND PACKAGE A BODY FLOWER PIECE (75 POINTS) (2023)**

Each participant will make and package up to a \$25 retail-priced body flower, including 20% labor. These pieces could include any of the following: corsages, boutonnieres, floral jewelry, crowns, arm, wrist, or ankle pieces, and hair accessories. The type of design and information about the piece will be provided to the participants through a given scenario at the beginning of the practicum by the event assistant in charge. All plant and non-plant materials needed to construct and package the piece will be provided. The selection of materials should be combined to create a floral display according to acceptable retail purposes, using appropriate elements and principles of design. Each participant will be allowed 20 minutes to complete the construction of the piece and complete an itemized listing of costs for the piece constructed. Scoring criteria are presented on the [Create and Packaging a Body Flower Piece Rubric](#), which a judge will record.

### **IDENTIFYING AND CONTROLLING PLANT DISORDERS (75 POINTS) (2024)**

Pest and disorder items may be presented as an intact specimen, photograph or preserved specimen (herbarium sheet, insect mount, etc.). A station number will designate each specimen. The participant must identify the item and its classification (nutritional/environmental, insect/pest or disease). The participant must then determine the damage location as well as chemical and culture controls for the disorder. Each participant will identify 15 specimens in total for this event.

No specimens or items may be touched or handled in any way. Fifteen (15) minutes will be allowed for this event. Refer to the [Disorder Practicum Scorecard](#) for additional details.

The plant disorders will come from the following list:

<b>Nutritional/Environmental Disorders</b>	<b>Diseases</b>	<b>Insects and Pests</b>
<ul style="list-style-type: none"> <li>● Cold temperature (freeze)</li> <li>● Cold water damage</li> <li>● Ethylene damage</li> <li>● Insufficient water damage</li> <li>● Iron deficiency</li> <li>● Nitrogen deficiency</li> <li>● Phosphorus deficiency</li> </ul>	<ul style="list-style-type: none"> <li>● Botrytis – Gray mold</li> <li>● Damping-off</li> <li>● Downy mildew</li> <li>● Leaf spot (Black)</li> <li>● Powdery mildew</li> <li>● Root rot</li> <li>● Rust</li> <li>● Stem rot</li> <li>● Tospovirus (INSV and TSWV)</li> </ul>	<ul style="list-style-type: none"> <li>● Aphids</li> <li>● Fungus gnats</li> <li>● Leaf miner</li> <li>● Leafhopper</li> <li>● Mealybugs</li> <li>● Scale</li> <li>● Shore flies</li> <li>● Snails/Slugs</li> <li>● Spider mites</li> <li>● Thrips</li> <li>● Whiteflies</li> </ul>

## ***Annual Practicums (100 points)***

### ***Floral Arrangement - Each Top 10 TEAM will work together to create***

Make up to a \$55 retail-priced floral arrangement in compliance with the scenario provided. (The cost will include tax and retail markup for fresh and hard goods and be within fifty cents either way of the specified amount.) Participants will be allowed 20 minutes to complete their arrangements and itemized bills using the materials provided. At the beginning of the practicum, the event assistant will provide participants with the retail price of the flowers and foliage they will use in their arrangements. The participant will determine the total arrangement cost using the pricing form provided plus 20% labor on their design. The retail cost of flowers and foliage given to the participant will be determined after polling florists to determine their current retail prices on the flowers and foliage used in the event. Scoring criteria are presented on the [Floral Arrangement Practicum scorecard](#), which a judge will record.

### **EXPLANATION OF FLORAL ARRANGEMENT TERMS**

**Design:** Category interpretation: design follows the objective/scenario given

**Balance:** Physical and visual

**Creativity:** Artistic inventiveness

**Depth:** Placement of materials at different levels throughout the arrangement

**Focal Emphasis:** Design has one area of design that attracts the eye to it

**Line:** Movement

**Mechanics:** Professional techniques and application

**Scale:** Proportion

**Unity:** Cohesiveness of design

**Color:** harmonious use of color

# Scoring

Phase	Individual Points	Team Points
Plant and Equipment Identification	200	800
General knowledge	200	800
Annual practicums - * Floral arrangement		100
Rotational practicums – 1 selected * Make a Mixed Planter Combination * Create and Package a Body Flower Piece * Identifying/Controlling Plant Disorders	75	300
<b>TOTAL</b>	475	2,400

## TIEBREAKERS

If ties occur, the following components will be used in the listed order to determine award recipients:

### Individual

1. Plant and equipment identification
2. Floral arrangement practicum
3. Written Exam

### Team

1. Plant and equipment identification
2. Total rotational practicum score
3. Total Written exam

## References

*This list of references is not intended to be all-inclusive.*

- Other sources may be utilized, and teachers are encouraged to use the best instructional materials available. The following list contains references that may prove helpful during event preparation.
- Past CDE materials and other resources are available on [FFA.org](http://FFA.org).
- Principal of Floral Design, Pat Diehl Scace, James M. DelPrince – Goodheart Wilcox Publisher. [www.g-w.com](http://www.g-w.com)
- The AIFD Guide to Floral Design: Terms, Techniques, and Traditions – The American Institute of Floral Design.
- Introduction to Horticulture Science and Technology. 5th edition, 2015. Schroeder, Seagle Felton, Ruter, Interstate Publishers, Inc.
- Introductory Horticulture. Carroll Shry, Edward Reiley. Eighth Edition.
- Greenhouse Operation and Management. Paul V. Nelson. Seventh Edition. (Specific reference for the disorders rotational practicum)
- Ball Publishing: Ball Redbook, Volume 1&2, 18th Edition.

# Floriculture Plant Identification List

#	Botanical Name	Common Name
101	<i>Aechmea fasciata cv.</i>	Bromeliad
102	<i>Ageratum houstonianum</i>	Floss Flower
103	<i>Alocasia amazonica</i>	Amazon elephant ear
104	<i>Aloe vera</i>	Aloe plant
105	<i>Alstroemeria hybrid cv.</i>	Peruvian Lily
106	<i>Anemone coronaria</i>	Wind Flower
107	<i>Anethum graveolens cv.</i>	Dill
108	<i>Angelonia hybrid cv.</i>	Angelonia
109	<i>Anthurium x andraeanum cv.</i>	Flamingo Plant
110	<i>Antirrhinum majus cv.</i>	Snapdragon
111	<i>Aphelandra squarrosa cv.</i>	Zebra Plant
112	<i>Araucaria heterophylla</i>	Norfolk Island Pine
113	<i>Asparagus densiflorus</i>	Fox Tail Fern
114	<i>Aster Amellus</i>	Aster
115	<i>Astilbe hybrid cv.</i>	Astilbe
116	<i>Begonia x semperflorens -cultorum</i>	Wax Begonia
117	<i>Begonia x tuberhybrida cv.</i>	Tuberous Begonia
118	<i>Caladium x hortulanum cv.</i>	Caladium
119	<i>Calathea insignis</i>	Rattlesnake plant
120	<i>Calibrachoa hybrid cv.</i>	Million Bells
121	<i>Callistephus chinensis cv.</i>	China Aster

#	Botanical Name	Common Name
122	<i>Campanula hybrid cv.</i>	Bell Flower
123	<i>Canna x generalis cv.</i>	Canna
124	<i>Capsicum annuum</i>	Ornamental Pepper
125	<i>Celosia argentea cv.</i>	Cockscomb
126	<i>Centaurea cyanus</i>	Cornflower, Bachelor's Button
127	<i>Chamaedorea elegans</i>	Parlor Palm
128	<i>Chamelaucium uncinatum</i>	Waxflower
129	<i>Cholorophytum comosum cv.</i>	Spider Plant
130	<i>Chrysanthemum x morifolium</i>	Chrysanthemum
131	<i>Clematis hybrid cv.</i>	Clematis
132	<i>Codiaeum variegatum pictum</i>	Croton
133	<i>Colocasia esculenta</i>	Taro
134	<i>Cordyline fruticosa</i>	Ti Plant
135	<i>Crassula argentea</i>	Jade Plant
136	<i>Cycas revoluta cv.</i>	Sago Palm
137	<i>Cyclamen x persicum cv.</i>	Cyclamen
138	<i>Cymbidium cv.</i>	Cymbidium Orchid
139	<i>Cymbopogon cv.</i>	Lemongrass (herb)
140	<i>Dahlia hybrid cv.</i>	Dahlia
141	<i>Delosperma</i>	Ice Plant
142	<i>Delphinium consolida cv.</i>	Larkspur

#	Botanical Name	Common Name
143	<i>Dendrobium cv.</i>	Dendrobium Orchid
144	<i>Dianthus caryophyllus cv.</i>	Carnation
145	<i>Dracaena Marginata</i>	Red Edge Dracaena
146	<i>Echinocactus cv.</i>	Barrel Cactus
147	<i>Epipremnum aureum cv.</i>	Golden Pothos
148	<i>Erica carnea cv.</i>	Winter Heath
149	<i>Eucalyptus polyanthemos</i>	Silver Dollar Eucalyptus
150	<i>Euphorbia pulcherrima cv.</i>	Poinsettia
151	<i>Eustoma grandiflorum</i>	Lisianthus Prairie gentian
152	<i>Exacum affine</i>	Persian Violet
153	<i>Ficus benjamina cv</i>	Benjamin Fig
154	<i>Ficus elastica cv</i>	Rubber Plant
155	<i>Ficus lyrata</i>	Fiddle Leaf Fig
156	<i>Fragaria x ananassa cv.</i>	Strawberry Plant
157	<i>Freesia x hybrida</i>	Freesia
158	<i>Gardenia jasminoides</i>	Gardenia
159	<i>Gerbera jamesonii</i>	Gerbera Daisy
160	<i>Gladiolus x hortulanus cv.</i>	Gladiolus
161	<i>Gomphrena hybrid cv.</i>	Globe Amaranths
162	<i>Gypsophila elegans cv.</i>	Baby's Breath
163	<i>Hedera helix cv.</i>	English Ivy
164	<i>Helianthus annuus</i>	Sunflower

#	Botanical Name	Common Name
165	<i>Heemerocallis cv.</i>	Daylily
166	<i>Hibiscus spp.</i>	Hibiscus
167	<i>Hippeastrum hybrid cv.</i>	Amaryllis
168	<i>Hosta cv.</i>	Hosta Plantain Lily
169	<i>Hoya carnosa</i>	Wax Plant
170	<i>Hyacinthus orientalis cv.</i>	Hyacinth
171	<i>Hydrangea macrophylla</i>	Big Leaf Hydrangea
172	<i>Hypoestes phyllostachya</i>	Polka-Dot plant
173	<i>Impatiens hawkeri</i>	New Guinea Impatiens
174	<i>Impomoea batatas cv.</i>	Sweet potato vine
175	<i>Iris x xiphium cv.</i>	Dutch Iris
176	<i>Justica brandegeana</i>	Shrimp Plant
177	<i>Kalanchoe x blossfeldiana cv.</i>	Kalanchoe
178	<i>Leucanthemum x superbum</i>	Shasta Daisy
179	<i>Liatris spicata</i>	Blazing stars
180	<i>Lilium hybrid cv.</i>	Asiatic or Oriental Lily
181	<i>Limonium sinuatum</i>	Statice
182	<i>Lobularia maritima</i>	Alyssum
183	<i>Mandevilla spp.</i>	Rock Trumpet
184	<i>Maranta leuconeura</i>	Prayer Plant
185	<i>Matthiola incana cv.</i>	Stock
186	<i>Monstera deliciosa</i>	Split Leaf Philodendron



#	Botanical Name	Common Name
187	<i>Narcissus hybrid cv.</i>	Daffodil or Narcissus
188	<i>Nephrolepis exaltata cv.</i>	Boston Fern
189	<i>Ocimum basilicum cv.</i>	Basil
190	<i>Opuntia cv.</i>	Cactus
191	<i>Paeonia cv.</i>	Peony
192	<i>Paphiopedilum hybrid cv.</i>	Ladyslipper Orchid
193	<i>Pelargonium peltatum cv.</i>	Ivy Geranium
194	<i>Pelargonium x hortorum cv.</i>	Zonal Geranium
195	<i>Pentas hybrid cv.</i>	Pentas star flower
196	<i>Peperomia sp.</i>	Peperomia
197	<i>Petroselinum crispum cv.</i>	Parsley
198	<i>Petunia x hybrida cv.</i>	Petunia
199	<i>Phalaenopsis cv.</i>	Moth Orchid
200	<i>Philodendron scandens oxycardium</i>	Heartleaf Philodendron
201	<i>Pilea cadierei</i>	Aluminum Plant
202	<i>Portulaca oleracea cv.</i>	Portulaca/ Moss rose
203	<i>Primula malacoides cv.</i>	Primrose
204	<i>Protea sp.</i>	Protea
205	<i>Ranunculus hybrid cv.</i>	Ranunculus/ Buttercups
206	<i>Rhododendron simsii cv.</i>	Azalea
207	<i>Rumohra adiantiformis</i>	Leatherleaf Fern
208	<i>Saintpaulia ionantha cv.</i>	African Violet

#	Botanical Name	Common Name
209	<i>Salvia splendens cv.</i>	Salvia
210	<i>Sansevieria trifasciata cv.</i>	Snake Plant
211	<i>Schefflera arboricola</i>	Dwarf Schefflera
212	<i>Schlumbergera bridgesii</i>	Christmas Cactus
213	<i>Sempervivum hybrid cv.</i>	Hens and Chicks
214	<i>Senecio cineraria</i>	Dusty Miller
215	<i>Senecio rowleyanus</i>	String of Pearls
216	<i>Solenostemon scutellarioides</i>	Coleus
217	<i>Solidago hybrid cv</i>	Solidago
218	<i>Spathiphyllum</i>	Peace Lily
219	<i>Stephanotis floribunda</i>	Stephanotis
220	<i>Strelitzia reginae</i>	Bird of Paradise
221	<i>Syngonium podophyllum</i>	Arrowhead plant
222	<i>Tagetes species cv.</i>	Marigold
223	<i>Tillandsia spp.</i>	Air Plant
224	<i>Tradescantia zebrine</i>	Inch Plant
225	<i>Tulipa cv.</i>	Tulip
226	<i>Verbena hybrid cv.</i>	Verbena
227	<i>Viola x wittrockiana cv.</i>	Pansy
228	<i>Zantedeschia hybrid cv.</i>	Calla Lily
229	<i>Zinnia cv.</i>	Zinnia
230		

# Floriculture Equipment and Supply Identification List

301	#100 Ribbon (satin, sheer, wired)	320	Corsage snips	342	Hanging basket
302	#3 Ribbon (satin, sheer, wired)	321	Drip emitter, irrigation	343	Hearing protection
303	#40 Ribbon (satin, sheer, wired)	322	Dry foam	344	Hook-and-blade pruners (bypass pruners)
304	#9 Ribbon (satin, sheer, wired)	323	Dust mask	345	Hose punch
305	18-Gauge floral wire	324	Duster	346	Hose repair coupling
306	28-Gauge floral wire	325	Ellepot propagation cubes	347	Hose-end repair fitting
307	Anvil-and-blade pruner	326	Enclosure card	348	Hose-end sprayer
308	Backflow preventer	327	Fern greening pins	349	Hose-end washer
309	Bouquet sleeve	328	Fertilizer injectors	350	Impulse sprinkler
310	Bulb planter	329	Floral adhesive	351	Drip Irrigation tape
311	Cardette	330	Floral foam	352	Irrigation timer
312	Cell pack containers	331	Floral knife	353	Mist nozzle (mist bed)
313	Ceramic container	332	Floral preservative	354	Nosegay holder
314	Chemical resistant gloves	333	Floral stem tape	355	Nursery container
315	Chenille stem	334	Fogger	356	Oscillating sprinkler
316	Coconut coir	335	Gas mask	357	Peat moss
317	Compressed air sprayer	336	Glass vase	358	Peat pots
318	Corsage box	337	Glue gun	359	Pest strips
319	Corsage pin	338	Glue pan	360	pH testing meter
		339	Glue sticks	361	Polyethylene film
		340	Granular fertilizer	362	Polyethylene pipe
		341	Greenhouse thermostat		

363	Pot covers
364	Propagation mat
365	Propagation trays
366	PVC (polyvinylchloride) pipe
367	PVC pipe cutter
368	Resin-coated fertilizer
369	Respirator
370	Ribbon shears
371	Rice hulls
372	Rockwool propagation cubes
373	Rose and stem flower stripper
374	Safety goggles
375	Sand

376	Scoop shovel
377	Shade fabric
378	Sharpening stone
379	Sheet moss
380	Siphon injector
381	Soil moisture meter
382	Solenoid valve
383	Spaghetti tubing (1/4" diameter or less)
384	Spanish moss
385	Sphagnum moss
386	Spray suit
387	Square point (flat) shovel

388	Styrofoam
389	Surestik cling
390	Tulle
391	Vermiculite
392	Water breaker
393	Water picks
394	Water soluble fertilizer
395	Water tubes
396	Waterproof container tape
397	Wire cutter
398	Wooden pick
399	Wrist corsage holder

# Floral Arrangement Practicum Rubric

100 POINTS

Name	Member Number	Chapter/State	Team Number
Judge Name	Judge's Signature	Date	
	Excellent	Good	Needs Improvement
Arrangement	85		
Category interpretation	<b>4-5 points</b> Design follows given scenario within provided parameters and correlates to the appropriate style, shape and design	<b>2-3 points</b> Design slightly followed given scenario but is somewhat lacking in appropriate style, shape, or design	<b>0-1 points</b> Design does not follow given scenario and/or lacks in following the given style, shape, or design
Balance	<b>7-10 points</b> Design is both visually and physically balanced	<b>4-6 points</b> Design is slightly off balanced	<b>0-3 points</b> Design is not balanced visually or physically
Creativity	<b>7-10 points</b> Design expresses advanced creative ability and advanced design techniques	<b>4-6 points</b> Design expresses some creative ability and minimal advanced design techniques	<b>0-3 points</b> Design lacks creative ability and Demonstrates limited design techniques
Depth	<b>7-10 points</b> Placement of materials at different levels is evenly distributed throughout	<b>4-6 points</b> Placement of materials are somewhat distributed evenly	<b>0-3 points</b> Placement of items are not distributed evenly
Color	<b>7-10 points</b> Color is used evenly/harmoniously throughout	<b>4-6 points</b> Color is used somewhat correctly	<b>0-3 points</b> Color is not used correctly
Focal emphasis	<b>7-10 points</b> Design has one area of design that attracts the eye	<b>4-6 points</b> Design somewhat has a clear focal point	<b>0-3 points</b> Design does not have a clear focal point
Line / Rhythm	<b>7-10 points</b> Design has a clear sense of movement created visually by the placement of floral materials	<b>4-6 points</b> Design has a somewhat clear sense of movement created visually by the placement of floral materials	<b>0-3 points</b> Design has no clear sense of movement created visually by the placement of floral materials
Mechanics	<b>7-10 points</b> Techniques used to keep floral material secure and stable are hidden or done neatly	<b>4-6 points</b> Techniques used to keep floral material secure and stable are somewhat hidden or done neatly	<b>0-3 points</b> Techniques used to keep floral material secure and stable are not hidden or done neatly
Scale / Proportion	<b>4-5 points</b> Design is the correct size based on container given	<b>2-3 points</b> Design is slightly out of proportion	<b>0-3 points</b> Design is not in proportion with container given
Unity	<b>4-5 points</b> All principles of designs are present and executed well	<b>2-3 points</b> Some principles of design are executed well	<b>0-1 points</b> None or few principles of design are executed well
ITEMIZED LIST OF COSTS	15		
Bill of Sale Completion	<b>4-5 points</b> Bill of Sale is completed entirely with a complete list of all items used and totaled	<b>2-3 points</b> Bill of Sale is not entirely complete or missing some items used in the design	<b>0-1 point</b> Bill of Sale is missing a lot of detail and/or missing several items used in the design
Individual Pricing and Quantity Used	<b>4-5 points</b> All items used in the design are individually listed with correct individual price and quantity totally accurately	<b>2-3 points</b> Some items added incorrectly, or quantity used listed incorrectly.	<b>0-1 point</b> Significant number of items added or listed incorrectly
Total Bill of Sale Pricing Accuracy	<b>4-5 points</b> Overall bill is legible with labor calculated correctly, and total price is listed accurately within +/- \$0.50 of \$55.00	<b>2-3 points</b> Overall bill includes minor errors, includes parts that are difficult to read or final price slightly off target goal of \$55.00	<b>0-1 points</b> Overall bill includes major errors, difficult to read, or well off target goal of \$55.00.

**TOTAL SCORE (100 points possible)**

# Floral Arrangement Itemized List of Costs

Name	Chapter	Team Number	
Quantity	Flower/Foliage	Unit Cost	Total
<b>TOTAL FLOWER/FOLIAGE MATERIAL COST</b>			

Quantity	Material Used	Unit Cost	Total
<b>TOTAL HARD GOODS COST</b>			

*\*Participants will be provided the retail price of flowers and foliage that they will use in their arrangement by the event official at the beginning of the practicum. The markup is built into the retail price of the flowers and the foliage used in the arrangement.*

<b>Total Plant Material Cost</b>	
<b>Total Hard Goods Cost</b>	
<b>Sub Total</b>	
<b>Labor 20%</b>	
<b>TOTAL ARRANGEMENT COST*</b>	

# Making a Mixed Combination Planter Rubric

**75 POINTS**

Name	Member Number	Chapter/State	Team Number	
Judge Name	Judge's Signature		Date	
	Excellent	Good	Needs Improvement	Member Score
Selection of products	<b>6-8 points</b> Plants selected correctly to match scenario given and pot size	<b>3-5 points</b> Some of the plant selected match pot size and given scenario	<b>0-2 points</b> Plants selected do not match pot size or scenario	
Preparation of plant materials	<b>6-7 points</b> Soil is filled to the correct level, plants are planted at correct depth, and soil firmed after planting	<b>3-5 points</b> Some of the items for correct planting are missing or incorrectly demonstrated	<b>0-2 points</b> Plants were not prepared properly and/or soil was not prepared properly	
Labeling of combo	<b>7-10 points</b> Labeled with date planted, plant names, and cultivars	<b>4-6 points</b> Labeled with some but not all information required	<b>0-3 points</b> no label present or labeled incorrectly	
Balance	<b>9-12 points</b> Plants are evenly spaced within the pot, plants are physically and visually balanced with container size	<b>5-8 points</b> Plants are slightly off balance, placement of plants does not align with physical or visual display	<b>0-4 points</b> Plants are not balanced visually or physically	
Design	<b>11-15 points</b> Principles of design are followed while completing the mixed planter	<b>6-10 points</b> Some of the principles of design are followed	<b>0-5 points</b> None or few of the principles of design we followed when completing the planter	
Attractiveness	<b>10-13 points</b> Mixed Planter is presented in a sellable fashion, no broken pieces/part, pot clean, and plants faced in pot	<b>5-9 points</b> Mixed Planted is presented in a somewhat sellable condition	<b>0-4 points</b> Mixed Planter is presented in poor, unfinished, or non-sellable condition	
Pricing	<b>7-10 points</b> Price sheet has each plant used identified correctly with correct quantity used. Sheet includes no or minor calculation errors and within +/- \$0.50 of \$35	<b>4-6 points</b> Price sheet has 1 or 2 missing plants. Sheet also includes errors on quality used or totaled incorrectly	<b>0-3 points</b> Price sheet is incomplete and/or totaled inaccurately	
<b>TOTAL SCORE (75 POINTS POSSIBLE)</b>				

# Mixed Combination Planter Itemized List of Costs

Name		Chapter	Team Number	
Quantity	Plant Material		Unit Cost	Total
<b>TOTAL FLOWER/FOLIAGE MATERIAL COST</b>				

Quantity	Material Used	Unit Cost	Total
<b>TOTAL HARD GOODS COST</b>			

Total Plant Material Cost

Total Hard Goods Cost

*Sub Total*

**TOTAL MIXED PLANTER COST**


Date

# Making and Packing a Body Flower Piece Rubric **75 POINTS**

Name	Chapter			Team Number
	Excellent	Good	Needs Improvement	Member Score
<b>Mechanical Application</b>	<p><b>11-15 points</b></p> <p>Techniques used to keep floral material secure and stable are hidden or done neatly</p>	<p><b>6-10 points</b></p> <p>Techniques used to keep floral material secure and stable are somewhat hidden or done neatly</p>	<p><b>0-5 points</b></p> <p>Techniques used to keep floral material secure and stable are not hidden or done neatly</p>	
<b>Color</b>	<p><b>7-10 points</b></p> <p>Color is used evenly/harmoniously throughout</p>	<p><b>4-6 points</b></p> <p>Color is used somewhat correctly</p>	<p><b>0-3 points</b></p> <p>Color is not used correctly</p>	
<b>Creativity</b>	<p><b>11-15 points</b></p> <p>Design expresses a high level of creative ability and advanced design techniques.</p>	<p><b>6-10 points</b></p> <p>Design expresses some creative ability and minimal advanced design techniques</p>	<p><b>0-3 points</b></p> <p>Design lacks creative ability and demonstrated limited design techniques</p>	
<b>Balance</b>	<p><b>7-10 points</b></p> <p>Design is physically and visually balanced</p>	<p><b>4-6 points</b></p> <p>Design is slightly off balance</p>	<p><b>0-3 points</b></p> <p>Design does not follow the principles of design regarding balance</p>	
<b>Design &amp; Category Interpretation</b>	<p><b>4-5 points</b></p> <p>Design follows scenario given for an overall cohesive design</p>	<p><b>2-3 points</b></p> <p>Design somewhat follows scenario given and overall design is somewhat cohesive</p>	<p><b>0-1 points</b></p> <p>Design does not follow given scenario</p>	
<b>Bill of Sale Completion</b>	<p><b>7-10 points</b></p> <p>Bill of Sale is completed entirely with a complete list of all items used</p>	<p><b>5-8 points</b></p> <p>Bill of Sale is not entirely complete or missing some items used in the design</p>	<p><b>0-4 points</b></p> <p>Bill of Sale is missing a lot of detail and/or missing several items used in the design</p>	
<b>Pricing Accuracy (accuracy of pricing identification)</b>	<p><b>7-10 points</b></p> <p>All items used in the design are listed with correct price, totally accurately, labor calculated corrected, within 50 cents up or down of \$25.00</p>	<p><b>4-6 points</b></p> <p>Some items added incorrectly and/or final price slightly off target goal of \$25.00</p>	<p><b>0-3 points</b></p> <p>Significant number of items added incorrectly or way off target goal of \$25.00.</p>	
<b>TOTAL SCORE (75 POINTS POSSIBLE)</b>				



# Body Flower Piece Itemized List of Costs

Name		Chapter	Team Number	
Quantity	Flower/Foliage Used		Unit Cost	Total
<b>TOTAL FLOWER/FOLIAGE MATERIAL COST</b>				

Quantity	Material Used	Unit Cost	Total
<b>TOTAL HARD GOODS COST</b>			

*Total Flower/Foliage Material Cost*

*Total Hard Goods Cost*

*Subtotal*

*Labor 20 %*

**TOTAL CORSAGE COST**


# Disorder Practicum Scorecard 75 POINTS

**Name** \_\_\_\_\_ **Chapter** \_\_\_\_\_ **Team Number** \_\_\_\_\_

		Member Answer	Possible Points	Member Score
1.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
2.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
3.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
4.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
5.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
6.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
7.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
8.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	

		Member Answer	Possible Points	Member Score	CLASSIFICATION
9.	Classification #:		1		1- Diseases
	Identification #:		2		2- Insects/Pests/Mites
	Chemical Control #:		1		3- Nutritional/Environmental
	Cultural/Biological Control #:		1		
10.	Classification #:		1		<b>IDENTIFICATION</b>
	Identification #:		2		01 Aphids
	Chemical Control #:		1		02 Black Leaf Spot
	Cultural/Biological Control #:		1		03 Botrytis – Grey Mold
11.	Classification #:		1		04 Cold Temperature (freeze)
	Identification #:		2		05 Cold Water Damage
	Chemical Control #:		1		06 Damping-off
	Cultural/Biological Control #:		1		07 Downy Mildew
12.	Classification #:		1		08 Ethylene Damage
	Identification #:		2		09 Fungus Gnats
	Chemical Control #:		1		10 Insufficient Watering
	Cultural/Biological Control #:		1		11 Iron Deficiency
13.	Classification #:		1		12 Leaf Miner
	Identification #:		2		13 Leafhopper
	Chemical Control #:		1		14 Mealybugs
	Cultural/Biological Control #:		1		15 Nitrogen Deficiency
14.	Classification #:		1		16 Phosphorus Deficiency
	Identification #:		2		17 Powdery Mildew
	Chemical Control #:		1		18 Root Rot
	Cultural/Biological Control #:		1		19 Rust
15.	Classification #:		1		20 Scale
	Identification #:		2		21 Shore Flies
	Chemical Control #:		1		22 Snails/ Slugs
	Cultural/Biological Control #:		1		
<b>TOTAL:</b>			<b>75</b>		

## IDENTIFICATION

- 01 Aphids
- 02 Black Leaf Spot
- 03 Botrytis – Grey Mold
- 04 Cold Temperature (freeze)
- 05 Cold Water Damage
- 06 Damping-off
- 07 Downy Mildew
- 08 Ethylene Damage
- 09 Fungus Gnats
- 10 Insufficient Watering
- 11 Iron Deficiency
- 12 Leaf Miner
- 13 Leafhopper
- 14 Mealybugs
- 15 Nitrogen Deficiency
- 16 Phosphorus Deficiency
- 17 Powdery Mildew
- 18 Root Rot
- 19 Rust

- 20 Scale
- 21 Shore Flies
- 22 Snails/ Slugs
- 23 Spider Mites
- 24 Stem Rot
- 25 Thrips
- 26 Tospovirus (INSV and TSWV)
- 27 Whiteflies

## CHEMICAL CONTROL

- 1 Fungicide
- 2 Insecticide
- 3 Miticide
- 4 Molluscicide
- 5 No Treatment Listed

## CULTURAL CONTROL

- 1 Apply Complete Fertilizer
- 2 Correct/Adjust Temperature
- 3 Correct/Adjust Watering
- 4 Ladybird Beetles
- 5 Nematodes
- 6 Parasitic Wasps
- 7 Predatory Mites
- 8 Reduce Relative Humidity
- 9 No Treatment Listed