

Floriculture





Purpose

The 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 that are delivered through the agricultural education curriculum.

Floriculture is a discipline of horticulture concerned with the cultivation of 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 for use in the retail floral 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

- Each team will be comprised of four members.
- All four scores will be used to determine the total team score.
- Official FFA Dress is not required for this event.
- Under no circumstances will any participant be allowed to touch or handle plant material during



the event except when instructed by the event staff.

- Any communication between participants during the event will be sufficient cause to eliminate the team from the event. The exception to this is the team activity.
- Any participant caught cheating during the event will be expelled from the event.

- The event superintendent will assign the participants to group leaders who will escort them to various event staging sites. Participants must know their participant number and stay in their assigned group at all times or until told to change leaders by the event superintendent.
- Any assistance given to a participant from any source during the event, other than a floriculture
 official, will be sufficient cause to eliminate the team from the event.
- All participants will be given an identification number by which they will be designated throughout the event.
- Various computer applications may be utilized throughout the floriculture event.
- Any participant in possession of an electronic and/or communication device in the event area is subject to disqualification.

Event Format

MATERIALS STUDENTS NEED TO PROVIDE:

- Clean clipboard, free of notes.
- Two sharpened No. 2 pencils.
- Floral cutters/clippers.
- Ribbon shears.
- · Wire cutters.
- Calculator Should be battery operated, non-programmable and non-scientific (basic five function only). No other calculators can be used during the event.

TEAM ACTIVITY (800 POINTS)

Each team will perform an assignment routinely performed in some phase of the floriculture industry that requires teamwork. These tasks will be described in situational terms for presentation to each team. Forty-five minutes will be allowed for completing the activity. If a presentation to the judges is required, the presentation portion of the event will take place after the 45 minute time period has ended. Presentation times may vary depending on the assigned task but will not exceed 10 minutes. There will be an additional time allowed after judging is complete for team clean up. All materials, with the exception of floral tools, needed to complete the assignment will be provided. The type of activity and information about the specific tasks will be announced at the beginning of the practicum by the event assistant in charge.

The type of assignments that may be used in this phase of the event include, but are not limited to, the following:

- Prepare floral products for an event.
- Prepare and pack floral products for shipping and updating inventory.
- Create a floral product display.
- Create a greenhouse production and task schedule to meet the needs of a given customer.
- Prepare and display plant material found in a garden center.

Scoring criteria for the team preparation and presentation are on the Team Activity Rubric, which will be recorded by a judge.

INDIVIDUAL ACTIVITIES

Identification of plant materials and equipment (200 points)

Fifty specimens from the floriculture plant and equipment identification list 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 25 minutes to complete this phase of the event.

General Knowledge Examination (200 points)

Participants will answer 50 multiple choice questions to test all areas of the floriculture industry as reflected in the event objectives including flowers and material from the wholesaler and how they are handled, stored, and used in the flower shop; knowledge of floral design (arrangement) and marketing of floral products from the floral shop as well as participants' knowledge and understanding of basic biological and scientific principles of producing and marketing flowers, plants and foliage. Each participant will be allowed 50 minutes to complete the exam. Each answer has a value of four points. The exam will be comprised of questions from the last five years of National FFA Floriculture exams.

Annual Practicums (200 points)

Each participant will complete two annual practicums: Floral arrangement Growing procedures

Floral Arrangement (100 points)

Make up to a \$55 retail priced floral arrangement in compliance with the scenario provided. (The total cost will include tax as well as retail mark up for fresh and hard goods and be within fifty cents either way of the total amount.) The event superintendent will announce the type of arrangement during the team orientation meeting. Using the materials provided, participants will be allowed 20 minutes to complete their arrangements and itemized bills. The event assistant at the beginning of the practicum will provide participants with the retail price of the flowers and foliage that 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. 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 will be recorded by a judge.

EXPLANATION OF FLORAL ARRANGEMENT TERMS

Design: Category interpretation: design follows 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

Growing Procedures (100 points)

One of the three activities listed below will be demonstrated on an annual basis. Ten minutes will be allowed for this section including questions from the judges. Seven (7) minutes to complete the assigned task, 1 minute for judges' questions, and 2 minutes for judges scoring.

POTTING OF YOUNG PLANTS (PLUGS OR LINERS)

Participants will be asked to plant young plants in the pots provided. Each participant will be given a group of young plants from which to select their transplants from; an appropriate pot or pots; potting medium; and ID stake and a marking pencil. Scoring criteria are presented on the Potting of Young Plants Practicum Rubric, which will be recorded by a judge.

ASEXUAL PROPAGATION OF PLANTS

Each participant will be provided the parent plant materials and all other materials needed to propagate plants asexually. Using the available materials, participants will take cuttings from the plant before them and stick them in the correct media, best for rooting. Participants should sanitize all equipment and use it appropriately in a safe manner. Scoring criteria are presented on the Asexual Plant Propagation Rubric, which will be recorded by a judge.

PINCHING PLANTS

A plant will be placed before each participant. Participants will be judged on the procedures they follow in pinching the plant in compliance with the scenario provided. Scoring criteria are presented on the Pinching Plants Rubric, which will be recorded by a judge.

Rotational Practicums (75 Points)

In addition to the two annual practicums, one practicum will be selected from the list below for each year. The three to be used will be identified by the event superintendent.

❖ MAKE A MIXED PLANTER COMBINATION (75 POINTS)

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. Selection of materials should be combined to create a floral display according to the 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 will be recorded by a judge.

❖ MAKE AND PACKAGE A CORSAGE (75 POINTS)

Each participant will make and package a \$25 retail priced corsage including 20% labor. The type of corsage and information about the corsage 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 corsage will be provided. The selection of materials should be combined to create a floral display according to the acceptable retail purposes, using appropriate elements and principles of design. Each participant will be allowed 20 minutes to complete the construction of the corsage and complete an itemized listing of costs for the corsage constructed. Scoring criteria are presented on the Making and Packing a Corsage Rubric, which will be recorded by a judge.

❖ IDENTIFYING AND CONTROLLING PLANT DISORDERS (75 POINTS)

Pest and disorder items may be presented as an intact specimen, photograph or preserved specimen (herbarium sheet, insect mount, etc.). Each specimen will be designated by a station number. 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 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 of disorders.

NUTRITIONAL AND ENVIRONMENTAL DISORDERS

- Cold temperature (freeze)
- Cold water damage
- Ethylene damage
- Insufficient water damage
- Iron deficiency
- Nitrogen deficiency
- Phosphorus deficiency

DISEASES

- Botrytis Gray mold
- Damping-off
- Downy mildew
- Leaf spot (Black)
- Powdery mildew
- Root rot
- Rust
- Stem rot
- Tospovirus (INSV and TSWV)

INSECTS AND PESTS

- Aphids
- Fungus gnats
- Leaf miner
- Leafhopper
- Mealybugs
- Scale
- Shore flies
- Snails/Slugs
- Spider mites
- Thrips
- Whiteflies

Scoring

Phase	Individual Points	Team Points
Plant and Equipment Identification	200	800
General knowledge	200	800
Annual practicums - 100 points each * Floral arrangement * Growing procedures	200	800
Rotational practicums – 1 selected * Selling * Make a Mixed Planter Combination * Make and Package a Corsage * Identifying/Controlling Plant Disorders	75	300
Team activity	0	800
TOTAL	675	3,500

TIEBREAKERS

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

Individual Team

- 1. Plant and equipment identification
- 2. Floral arrangement practicum
- 3. Growing procedures
- 4. Written exam

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- 1. Team activity
- 2. Plant and equipment identification
- 3. Written exam

References

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

- Other sources may be utilized, and teachers are encouraged to make use of the very best instructional materials available. The following list contains references that may prove helpful during event preparation.
- National FFA— Past CDE Q&A's, https://www.ffa.org/resources/cde/questions-and-answers
- Principal of Floral Design, Pat Diehl Scace, James M. DelPrince Goodheart Wilcox Publisher. 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

101	Aechmea fasciata cv.	Silver Vase Bromeliad
102	Agaratum bayatanianum	
102	Ageratum houstonianum	Ageratum
103	Alstroemeria hybrid cv.	Peruvian Lily
104	Anemone coronaria	Anemone
105	Anethum graveolens cv.	Dill
106	Angelonia hybrid cv.	Angelonia
107	Anthurium x andraeanum cv.	Flamingo Plant
108	Antirrhinum majus cv.	Snapdragon
109	Aphelandra squarrosa cv.	Zebra Plant
110	Araucaria heterophylla	Norfolk Island Pine
111	Asparagus densiflorus	Sprengeri Fern
112	Aster pringlei	Monte Cassino Aster
113	Astilbe hybrid cv.	Astilbe
114	Begonia x semperflorens –	Wax Begonia
	cultorum	ŭ
115	Begonia x tuberhybrida cv.	Tuberous Begonia
116	Caladium x hortulanum cv.	Caladium
117	Calibrachoa hybrid cv.	Million Bells
118	Callistephus chinensis cv.	China Aster
119	Campanula hybrid cv.	Campanula
120	Canna x generalis cv.	Garden Canna
121	Capsicum annuum	Ornamental Pepper
		Plant
122	Catharanthus roseus	Vinca
123	Celosia argentea cv.	Cockscomb
124	Chamaedorea elegans	Parlor Palm
125	Chamelaucium uncinatum	Waxtlower
125 126	Chamelaucium uncinatum	Waxflower Spider Plant
125 126	Cholorophytum comosum	Waxflower Spider Plant
126	Cholorophytum comosum cv.	Spider Plant
	Cholorophytum comosum cv. Chrysanthemum x	Spider Plant Florist's
126 127	Cholorophytum comosum cv. Chrysanthemum x morifolium	Spider Plant Florist's Chrysanthemum
126127128	Cholorophytum comosum cv. Chrysanthemum x morifolium Clematis hybrid cv.	Spider Plant Florist's Chrysanthemum Clematis
126 127	Cholorophytum comosum cv. Chrysanthemum x morifolium	Spider Plant Florist's Chrysanthemum
126127128	Cholorophytum comosum cv. Chrysanthemum x morifolium Clematis hybrid cv. Codiaeum variegatum	Spider Plant Florist's Chrysanthemum Clematis
126 127 128 129	Cholorophytum comosum cv. Chrysanthemum x morifolium Clematis hybrid cv. Codiaeum variegatum pictum	Spider Plant Florist's Chrysanthemum Clematis Croton
126 127 128 129 130	Cholorophytum comosum cv. Chrysanthemum x morifolium Clematis hybrid cv. Codiaeum variegatum pictum Crassula argentea	Spider Plant Florist's Chrysanthemum Clematis Croton Jade Plant
126 127 128 129 130 131	Cholorophytum comosum cv. Chrysanthemum x morifolium Clematis hybrid cv. Codiaeum variegatum pictum Crassula argentea Cycas revoluta cv.	Spider Plant Florist's Chrysanthemum Clematis Croton Jade Plant Sago Palm
126 127 128 129 130 131 132	Cholorophytum comosum cv. Chrysanthemum x morifolium Clematis hybrid cv. Codiaeum variegatum pictum Crassula argentea Cycas revoluta cv. Cyclamen x persicum cv. Cymbidium cv.	Spider Plant Florist's Chrysanthemum Clematis Croton Jade Plant Sago Palm Florist's Cyclamen
126 127 128 129 130 131 132 133	Cholorophytum comosum cv. Chrysanthemum x morifolium Clematis hybrid cv. Codiaeum variegatum pictum Crassula argentea Cycas revoluta cv. Cyclamen x persicum cv. Cymbidium cv. Cymbopogon cv.	Spider Plant Florist's Chrysanthemum Clematis Croton Jade Plant Sago Palm Florist's Cyclamen Cymbidium Orchid
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149	Fragaria x ananassa cv.	Strawberry Plant
150	Freesia x hybrida	Freesia
151	Gardenia jasminoides	Gardenia
152	Gerbera jamesonii	Gerbera Daisy
153	Gladiolus x hortulanus cv.	Garden Gladiolus
154	Gomphrena hybrid cv.	Globe Amaranths
155	Gypsophila elegans cv.	Baby's Breath
156	Hedera helix cv.	English Ivy
157	Helianthus annuus	Sunflower
158	Hemerocallis cv.	Daylily
159	Hippeastrum hybrid cv.	Amaryllis
160	Hosta cv.	Hosta
161	Hoya carnosa	Wax Plant
162	Hyacinthus orientalis cv.	Hyacinth
163	Hydrangea macrophylla	Big Leaf Hydrangea
164	Impatiens hybrid cv.	Impatiens
165	Impomoea batatas cv.	Ornamental Sweet
	·	Potato
166	Iris x xiphium cv.	Dutch Iris
167	Senecio cineraria	Dusty Miller
168	Justica brandegeana	Shrimp Plant
169	Kalanchoe x blossfeldiana	Kalanchoe
	CV.	
170	Leucanthemum x	Shasta Daisy
	superbum	
171	Leucospermum hybrid cv.	Pin Cushion Protea
172	Liatris spicata	Liatris
173	Lilium hybrid cv.	Asiatic or Oriental
		Lily
174	Limonium sinuatum	Statice
175	Lobularia maritima	Alyssum
176	Maranta leuconeura	Prayer Plant
177	Matthiola incana cv.	Stock
178	Monstera deliciosa	Split Leaf
		Philodendron
179	Narcissus hybrid cv.	Daffodil or Narcissus
180	Nephrolepis exaltata cv.	Boston Fern
181	Ocimum basilicum cv.	Basil
182	Opuntia cv.	Cactus
183	Paeonia cv.	Peony
184	Paphiopedilum hybrid cv.	Ladyslipper Orchid
185	Pelargonium x hortorum	Zonal Geranium
	CV.	
186	Pelargonium peltatum cv.	Ivy Geranium
187	Pentas hybrid cv.	Pentas
188	Petroselinum crispum cv.	Parsley
189	Petunia x hybrida cv.	Petunia
190	Phalaenopsis cv.	Moth Orchid
191	Philodendron scandens	Heartleaf
	oxycardium	Philodendron
192	Pilea cadierei	Aluminum Plant
193	Portulaca oleracea cv.	Portulaca
194	Primula malacoides cv.	Primrose
195	Ranunculus hybrid cv.	Ranunculus
196	Rhododendron simsii cv.	Florist Azalea
197	Rosa hybrid cv	Hybrid Tea Rose

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198	Rumohra adiantiformis	Leatherleaf Fern
199	Saintpaulia ionantha cv.	African Violet
200	Salvia splendens cv.	Salvia
201	Sansevieria trifasciata cv.	Snake Plant
202	Schefflera arboricola	Dwarf Schefflera
203	Schlumbergera bridgesii	Christmas Cactus
204	Sempervivum hybrid cv.	Hens and Chicks
205	Senecio x hybridus cv.	Cineraria
206	Sinningia speciosa Fyfiana	Florist Gloxinia
	Group cv.	
207	Solidago hybrid cv	Solidago
208	Solenostemon	Coleus

	scutellarioides	
209	Spathiphyllum	Peace Lily
210	Stephanotis floribunda	Stephanotis
211	Strelitzia reginae	Bird of Paradise
212	Syngonium podophyllum	Nephthytis
213	Tagetes species cv.	Marigold
214	Tradescantia zebrine	Silver Inch plant
215	Tulipa cv.	Tulip
216	Verbena hybrid cv.	Verbena
217	Viola x wittrockiana cv.	Pansy
218	Zantedeschia hybrid cv.	Calla Lily
219	Zinnia cv.	Zinnia

Floriculture Equipment and Supply Identification List

301	#100 Ribbon (satin, sheer, wired)		
302	#3 Ribbon (satin, sheer, wired)		
303	#40 Ribbon (satin, sheer, wired)		
304	#9 Ribbon (satin, sheer, wired)		
305	18-Gauge floral wire		
306	28-Gauge floral wire		
307	Anvil-and-blade pruner		
308	Backflow preventer		
309	Bouquet sleeve		
310	Bulb planter		
311	Cardette		
312	Cell pack containers		
313	Ceramic container		
314	Chemical resistant gloves		
315	Chenille stem		
316	Coconut coir		
317	Compressed air sprayer		
318	Corsage box		
319	Corsage pin		
320	Corsage snips		
321	Drip emitter, irrigation		
322	Dry foam		
323	Dust mask		
324	Duster		
325	Ellepot propagation cubes		
326	Enclosure card		
327	Fern greening pins		
328	Fertilizer injectors		
329	Floral adhesive		
330	Floral foam		
331	Floral knife		
332	Floral preservative		
333	Floral stem tape		

334	Fogger
335	Gas mask
336	Glass vase
337	Glue gun
338	Glue pan
339	Glue sticks
340	Granular fertilizer
341	Greenhouse thermostat
342	Hanging basket
343	Hearing protection
344	Hook-and-blade pruners (bypass pruners)
345	Hose punch
346	Hose repair coupling
347	Hose-end repair fitting
348	Hose-end sprayer
349	Hose-end washer
350	Impulse sprinkler
351	Drip Irrigation tape
352	Irrigation timer
353	Mist nozzle (mist bed)
354	Nosegay holder
355	Nursery container
356	Oscillating sprinkler
357	Peat moss
358	Peat pots
359	Pest strips
360	pH testing meter
361	Polyethylene film
362	Polyethylene pipe
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

Name	Member Number	Chapter/State	Team Number	
Judge Name	Judge's Signature		Date	

	Excellent	Good	Needs Improvement	Member Score
Arrangement	85			
Category interpretation	4-5 points Design follows given scenario within provided parameters and correlates to the appropriate style, shape and design	2-3 points Design slightly followed given scenario but is somewhat lacking in appropriate style, shape, or design	O-1 points Design does not follow given scenario and/or lacks in following the given style, shape, or design	
Balance	7-10 points Design is both visually and physically balanced	4 -6 points Design is slightly off balanced	0-3 points Design is not balanced visually or physically	
Creativity	7-10 points Design expresses advanced creative ability and advanced design techniques	4-6 points Design expresses some creative ability and minimal advanced design techniques	0-3 points Design lacks creative ability and Demonstrates limited design techniques	
Depth	7-10 points Placement of materials at different levels is evenly distributed throughout	4-6 points	0-3 points Placement of items are not distributed evenly	
Color	7-10 points Color is used evenly/harmoniously throughout	4-6 points Color is used somewhat correctly	0-3 points Color is not used correctly	
	7-10 points Design has one area that attracts the eye	4-6 points Design somewhat has a clear focal point	0-3 points Design does not have a clear focal point	
Line / Rhythm	7-10 points Design has a clear sense of movement created visually by the placement of floral materials	4-6 points Design has a somewhat clear sense of movement created visually by the placement of floral materials	0-3 points Design has no clear sense of movement created visually by the placement of floral materials	
Mechanics	7-10 points Techniques used to keep floral material secure and stable are hidden or done neatly	4-6 points Techniques used to keep floral material secure and stable are somewhat hidden or done neatly	0-3 points Techniques used to keep floral material secure and stable are not hidden or done neatly	
Scale / Proportion	4-5 points Design is the correct size based on container given	2-3 points Design is slightly out of proportion	0-3 points Design is not in proportion with container given	
Unity	4-5 points All principles of design are present and executed well	2-3 points Some principles of design are executed well	0-1 points None or few principles of design are executed well	
ITEMIZED LIST O	OF COSTS 15			
Bill of Sale Completion	4-5 points Bill of Sale is completed entirely with a complete list of all items used and totaled	2-3 points Bill of Sale is not entirely complete or missing some items used in the design	0-1 point Bill of Sale is missing a lot of detail and/or missing several items used in the design	
Individual Pricing and Quantity Used	4–5 points All items used in the design are individually listed with correct individual price and quantity totally accurately	2-3 points Some items added incorrectly, or quantity used listed incorrectly.	0-1 point Significant number of items added or listed incorrectly	
Total Bill of Sale Pricing Accuracy	4–5 points Overall bill is legible with labor calculated correctly, and total price is listed accurately within +/- \$0.50 of \$55.00	2-3 points Overall bill includes minor errors, includes parts that are difficult to read or final price slightly off target goal of \$55.00	0-1 points 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	Member Number	Chapter/State	Team Number	
Judge Name	Judge's Signature		Date	
Quantity	Flower/Foliage		Unit Cost	Total
		TOTAL FLOWER/FOLIAG	GE MATERIAL COST	
Quantity	Material Used		Unit Cost	Total
		TOTAL F	HARD GOODS COST	
		Total I	Plant Material Cost	
		Tota	al Hard Goods Cost	
			Sub Total	
	Labor 20%			
	2320, 2070			
		TOTAL ARR	ANGEMENT COST*	

^{*}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.

Asexual Plant Propagation Rubric

Name	Member Number	Chapter/State	Team Number
Judge Name	Judge's Signature		Date

	Excellent	Good	Needs Improvement		Member Score
Proper sanitation and equipment use	4–5 points Thoroughly covering cutting instrument with a sterile solution	2–3 points Cleaning cutting instrument with solution	0–1 point No sanitation procedures followed or not followed properly	(X2)	
Selection of cuttings	4–5 points Small uniform terminal shoot cuttings	2-3 points Used some cuttings of the same size and type	0–1 point too large, nonterminal shoots, or not uniform in size	(X2)	
Making cuttings	5-6 points Straight, flush even cut of the basal end	3-4 points Some cuttings cut properly and some incorrectly cut	0-2 points basal end cut at angle or damaged	(X2)	
Preparation of cuttings for sticking in growing media	5–6 points Selected/ prepared cuttings that did not require further preparation	3-4 points Selected cuttings that required removal of damaged and/or unneeded foliage	0-2 points left damaged and/or unnecessary foliage on plant	(X2)	
Use of rooting hormone	4–5 points Poured correct amount of rooting hormone into separate container, applied hormone & tapped off excess amount	2-3 points Too much or too little put in separate container, applied correctly but did not tap off extra hormone	0-1 point applied directly from source container and/or did not use rooting hormone	(X2)	
Selection of growing media	5–6 points Select best rooting medium for optimum rooting	3–4 points Select moderate but not best choice for optimum rooting	0-2 points selected incorrect rooting medium	(X2)	
Sticking of cuttings in growing media	5-6 points Creating a dibble in media prior to placing cutting, placing at proper depth, firming media correctly	3-4 points Correctly demonstrated at least 1 or 2 of the correct principles	0–2 points no prior hole made, planted too deep, or left unstable	(X2)	
Cuttings labeled correctly	4–5 points Labeled with date propagated, plant name, and cultivar	2–3 points Labeled with some but not all information required	0–1 point no label present or labeled with incorrect information	(X2)	
Response to questions	5–6 points Answered judges questions correctly	3-4 points Answered some questions correctly	0-2 points Did not or incorrectly answered questions AL SCORE (100 POINTS POSS	(X2)	

Pinching Plants Rubric

Name	Member Number	Chapter/State	Team Number
Judge Name	Judge's Signature	Date	

8-10 points	Good 4–7 points	Needs Improvement 0–3 points		Member Score
Followed given scenario to determine correct pinch	Some pinches were made in incorrect places on plant	Most all pinches were made on incorrect places	(x2)	
Used proper tools and/or techniques in making pinches	Used some but not all proper tools and/or techniques in making pinches	Used few or not any of proper tools and/or techniques in making pinches	(x2)	
Plant pinched correctly to get desired effect per instructions	Some pinches were too little or too much to get desired effect per instructions	Most or all of plant pinches would not allow the plant to reach desired effect per instructions	(x2)	
The plant will reach desired outcome after pinching, no damage to plant parts left after pinch, and pinches correctly done	The plant will have some difficulty achieving desired outcome, some plant parts left have damage, and some pinches not done correctly	The plant will not be able to achieve desired outcome, much damage to plant part left, and most pinches not done correctly	(x2)	
Answered questions correctly	Answered some questions correctly	Did not or incorrectly answered questions	(x2)	
	Followed given scenario to determine correct pinch Used proper tools and/or techniques in making pinches Plant pinched correctly to get desired effect per instructions The plant will reach desired outcome after pinching, no damage to plant parts left after pinch, and pinches correctly done Answered questions	Followed given scenario to determine correct pinch Used proper tools and/or techniques in making pinches Plant pinched correctly to get desired effect per instructions The plant will reach desired outcome after pinching, no damage to plant parts left after pinch, and pinches correctly done Answered questions Some pinches were made in incorrect places on plant Used some but not all proper tools and/or techniques in making pinches were too little or too much to get desired effect per instructions The plant will reach difficulty achieving desired outcome, some plant parts left have damage, and some pinches not done correctly	Followed given scenario to determine correct pinch Used proper tools and/or techniques in making pinches Plant pinched correctly to get desired effect per instructions The plant will reach desired outcome after pinching, no damage to plant parts left after pinch, and pinches correctly done Answered questions Some pinches were too little or too much to get desired outcome, some plant parts left after correctly Answered questions Some pinches were too little or too much to get desired effect per instructions The plant will reach desired outcome, some plant parts left after pinch, and pinches correctly Answered questions Answered some Some pinches were too little or too much to get desired effect per instructions The plant will have some difficulty achieving desired outcome, some plant parts left have damage, and some pinches not done correctly Did not or incorrectly	Followed given scenario to determine correct pinch made in incorrect places on plant Used proper tools and/or techniques in making pinches Plant pinched correctly to get desired effect per instructions The plant will reach desired outcome after pinching, no damage to plant parts left after pinch, and pinches correctly done Answered questions Some pinches were made on incorrect places on plant not all proper tools and/or techniques in making pinches Used some but not all proper tools and/or techniques in making pinches Some pinches were too little or too much to get desired effect per instructions The plant will reach desired outcome after pinching, no damage to plant parts left after pinch, and pinches correctly done Some pinches were too little or too much to get desired effect per instructions The plant will have some difficulty achieving desired outcome, some plant parts left have damage, and some pinches not done correctly Answered questions Answered some Did not or incorrectly

Potting of Young Plants Practicum Rubric

Name	Member Number	Chapter/State Team Number		
Judge Name	Judge's Signature		Date	

Potting Process Selection of plugs (liners are uniform in size and shape, correct number selected based on pot size provided on pot size provided slightly off in selecting the correct number selected based on pot size provided on pot size provided slightly off in selecting the correct number selected based on pot size provided on pot size		Excellent	Good	Needs Improvement		Member Score
Selection of plugs or liners Plugs/liners are uniform in size and shape, correct number selected based on pot size provided S-6 points Hole is made prior to placing plant in soil, the entire root system is covered, leaving proper stem length visible Labeling of plant/pot Correct growing media in pot leaving ended im pot liner arrangement and angle Plugs/liners are uniform in size and shape, just slightly off in selecting the correct number not selected based on pot size provided S-6 points Hole is made prior to placing plant in soil, the entire root system is covered, leaving proper stem length visible S-6 points Labeling of plant/pot Correct growing media is filled to the inner lip of the pot, leaving enough room to water the plant Plug or liner arrangement and angle and plugs/liners planted in upright position Firmness of growing growing growing growing growing growing firmly around each plant leaving the plant upright General appearance (free from handling upright position shandling upright position shandling upright position selable condition Plugs between the plant size and shape, just slightly fill in the correct number not selected based on pot size growing are showing, planted slightly too deep slightly too high or too label present or labeled with some but not all information required S-6 points Growing media is filled slightly too high or too low S-6 points S-6 points S-6 points S-6 points S-4 points Growing media is filled slightly too films S-6 points S-6 points Growing media is left slightly too film restricting plant growth S-6 points Growing media is left slightly too film restricting plant growth S-6 points S-6 po	Potting Process					
Hole is made prior to placing plant in soil, the entire root system is covered, leaving proper stem length visible S-6 points Labeling of plant/pot Correct growing medium level in pot Plug or liner arrangement and angle Plug or liner arrangement and angle Plug or liner arrangement and medium Primness of growing media is tapped/ prossed firmly around each plant leaving the plant upright General appearance (free from handing) General appearance (free from handing) Response to Hole is made prior to plact in soil, the minor armaden in set in soil, the minor armadount of roots are showing or plant stem is covered with soil A large amount of roots are showing or plant stem is covered with soil A large amount of roots are showing or plant stem is covered with soil A large amount of roots are showing or plant stem is covered with soil A large amount of roots are showing or plant stem is covered with soil A large amount of roots are showing or plant stem is covered with soil A large amount of roots are showing or plant stem is covered with soil A large amount of roots are showing or plant stem is covered with soil A large amount of roots are showing or plant stem is covered with soil A large amount of roots are showing or plant stem is covered with soil A powered leaving to deep S-4 points Growing media is filled to the point soil point stem is covered with soil A powered leavisible A powered leavisible S-4 points Growing media is filled slightly too close or too far apart, planting slightly tilting S-4 points S-4 points Growing media is left very low or completely fills up the pot In points O-2 points Plugs/liners pot spanted slightly so close or too far apart, planting slightly tilting S-6 points After planting, growing media is left slightly too firm restricting plant growth Firm appearance (free from handing) After planting product presented to the judge with plant upright, pot clean, and in sellable condition S-6 points S-6 points S-6 points S-6 points S-6 points S-6 points S-6		Plugs/liners are uniform in size and shape, correct number selected based	Plugs/liners are somewhat uniform in size and shape, just slightly off in selecting	Plugs/liners are not uniform in size and shape, correct number not selected based on	(x2)	
Labeling of plant/pot Labeled with date planted, plant name, and cultivar Correct growing mediaun level in pot Plug or liner arrangement and angle Timmess of growing media is tapped/ pressed medium Firmness of growing media is tapped/ pressed firmly around each plant leaving the plant upright General appearance (free from handling damage) Response to Labeled with some but not all information required not all information 1		Hole is made prior to placing plant in soil, the entire root system is covered, leaving proper	minor amount of roots are showing, planted slightly too deep	A large amount of roots are showing or plant	(x2)	
Correct growing media is filled to the inner lip of the pot, leaving enough room to water the plant Plug or liner arrangement and angle Plug spaced for pot size given and angle After planting growing media is tapped/ pressed medium Firmness of growing media is filled to the inner lip of the pot, leaving enough room to water the plant S-6 points Firmness of growing media is filled to the inner lip of the pot, leaving enough room to water the plant S-6 points Firmness of growing media is filled slightly too high or too low S-6 points After planting, growing media is tapped/ pressed firmly around each plant leaving the plant upright General appearance (free from handling damage) S-6 points S-7 points S-7 p		Labeled with date planted, plant name, and	Labeled with some but not all information	no label present or labeled with incorrect	(x2)	
Plug or liner arrangement and angle Plugs/Liners evenly spaced for pot size given and plugs/liners planted in upright position Firmness of growing media is tapped/ pressed medium General appearance (free from handling damage) Response to Plugs/Liners evenly spaced for pot size given and plugs/liners planted slightly too close or too far apart, planting slightly tilting S-6 points 3-4 points Growing media is left slightly loose or left slightly loose or left slightly too firm restricting plant growth 3-4 points Growing media is not firmed after planting or left entirely too firm restricting plant growth S-6 points 3-4 points 3-4 points Final product presented to the judge with plants upright, pot clean, and in sellable condition S-6 points Appwored some	medium level in	Growing media is filled to the inner lip of the pot, leaving enough room to	Growing media is filled slightly too high or too	Growing media is left very low or completely	(x2)	
Firmness of growing media is tapped/ pressed firmly around each plant leaving the plant upright General appearance (free from handling damage) Response to Respo	arrangement	Plugs/Liners evenly spaced for pot size given and plugs/liners planted	plugs/liners planted slightly too close or too far apart, planting	Plugs/liners not spaced corrected and not	(x2)	
appearance (free from handling damage) Final product presented to the judge with plants upright, pot clean, and in sellable condition Final product presented to the judge with plants upright, pot clean, and in sellable condition Final product presented to the judge in slightly sellable condition Final product presented to the judge in non-sellable condition Final product presented to the judge in non-sellable condition Final product presented to judge in non-sellable condition Final product presented to pudge in slightly sellable condition Final product presented to judge in non-sellable condition Final product presented to judge in non-sellable condition Final product presented to judge in non-sellable condition	growing	After planting, growing media is tapped/ pressed firmly around each plant leaving the plant upright	Growing media is left slightly loose or left slightly too firm	Growing media is not firmed after planting or left entirely too firm		
Response to Answered questions Answered some Did not or incorrectly (x2)	appearance (free from handling	Final product presented to the judge with plants upright, pot clean, and in	Final product presented to the judge in slightly	Final product presented to judge in non-sellable	(x2)	
questions correctly questions correctly answered questions TOTAL (100 POINTS POSSIBLE)	Response to questions	Answered questions	Answered some	Did not or incorrectly answered questions	(x2)	

Date

Making a Mixed Combination Planter Rubric

Judge's Signature

75 POINTS

Judge Name

Name	Member Number	Chapter/State	Team Number

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

Mixed Combination Planter Itemized List of Costs

Name	Member Number	Chapter/State	Team Number	
Judge Name	Judge's Signature		Date	
Quantity	Plant Material		Unit Cost	Total
		TOTAL FLOWER/FOLIAGE M	ATERIAL COST	
Quantity	Material Used		Unit Cost	Total
		TOTAL HARD	GOODS COST	
		Total Plant Material Cost		
		Total Hard Goods Cost		
		Sub Total		
		TOTAL MIXED F	PLANTER COST	
Date				

Making and Packing a Corsage Rubric

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

Corsage Itemized List of Costs

Name	Member Number	Chapter/State	Team Number	r
Judge Name	Judge's Signature		Date	
Quantity	Flower/Foliage Used		Unit Cost	Total
		TOTAL FLOWER/FOLIAGE MA	ATERIAL COST	
Quantity	Material Used		Unit Cost	Total
		TOTAL HADD	GOODS COST	
		TOTALTIAND		
		Total Flower/Foliage Material Cost		
		Total Hard Goods Cost		
		Subtotal		
		Labor 20 %		
		TOTAL CO	ORSAGE COST	

Disorder Practicum Scorecard

75 POINTS

Name Member Number Chapter/State Team Number

				V	
		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
9.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
Ю.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
11.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
12.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
13.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
14.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
15.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/Biological Control #:		1	
	TOTAL POINTS		75	

CLASSIFICATION

- 1 Diseases
- 2 Insects/Pests/Mites
- 3 Nutritional/Environmental

IDENTIFICATION

- 01 Aphids
- 02 Black Leaf Spot
- 03 Botrytis Grey Mold
- os Botiytis 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 Mulluscicide
- 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
- No Treatment Listed

Team Activity Rubric

Name	Member Number	Chapter/State	Team Number	
Judge Name	Judge's Signature		Date	

Indicator	Very strong evidence of skill 5–4 points	Moderate evidence of skill 3–2 points	Weak evidence of skill 1–0 points	Points Earned	Weight	Total Score	
Preparation							
Established team leadership role	One member seemed to assume leadership and others cooperated.	One member seemed to assume leadership.	No leadership role(s) were established.		X 10		
Member participation in planning activity	All members participated in discussion, shared ideas, and developed a plan of action to accomplish the assigned task.	Limited member discussion occurred before work began.	No member discussion occurred before work began.		X 25		
Developed a workable plan to reach team project goal	Duties were assigned to all team members, and responsibilities were equally assigned. Input was given by entire team.	Duties were assigned and all had near equal parts. Most of the team provided input to the plan.	Duties were not clearly assigned, and participation varied. At least one team member did not contribute to the plan.		X 25		
Teamwork displayed during the entire planning process	Team members worked together the entire time to complete the assigned task and were supportive of each other.	Two or three team members worked together to complete the assigned task.	Two member or less worked together to complete the assigned tasks.		X 15		
Technical Value/ Correct Information/ Realistic Plan created	Ideas discussed are creative, include accurate information, and realistic for the size and scope of the chapter	Ideas discussed lack creativity but are accurate and realistic	ldeas discussed are not realistic but include some errors.		X 15		
Plan outlined to complete assigned task and present a sellable proposal or final product	Clearly defined plan is developed with input from all members; team members have a clear understanding of responsibilities during presentation	Vaguely defined plan is created, and presentation is discussed but not clearly laid out	Little or not thought to final plan and/ or plan proposal.		X15		
Team Presentation Portion of the Team Activity							
Member participation during presentation	All members participated, listened to the presenter and team leadership was provided.	All members participated but there was no clear leadership or interaction between members.	One or more members had almost no participation.		X 20		
Quality/ completion of assigned tasks	All team members displayed enthusiasm about the final product and were positive about the proposed solution.	All team members share ideas, but 1-2 tasks are left unaddressed or not up to industry standards.	Not all team members participated and/or more than 2 tasks were left incomplete.		X 35		
TOTAL POINTS (800 possible points)							