

## 2024 Kansas FFA Floriculture CDE Guidelines

Sunday, April 28, 2024

Lobby, 1<sup>st</sup> Floor - Throckmorton Plant Science Center

Time of check-in: 3:35-4:10 pm

Time of event: 4:15-6:30 pm

Irina Sheshukova AIFD, CFD and Dr. Kimberly Williams, Coordinators

(785) 532-1514, [irinas@ksu.edu](mailto:irinas@ksu.edu); [kwilliam@ksu.edu](mailto:kwilliam@ksu.edu)

Date of last update: January 2024

### **General Information**

Teams of four can compete; the top three scores will count for the team total.

This contest will have **four rotations** as described below and be scored with <http://JudgingCard.com>. To accommodate the scorecard formats that are available, we reserve the ability to alter the number of questions in each section. Regardless of item number, each of the four CDE sections will be account for 1/4 of each contestant's final score.

Official FFA dress is not required for the Floriculture CDE.

### **What to bring:**

- A clean clipboard
- At least two No. 2 pencils
- A calculator—calculators used in this event should be battery-operated, nonprogrammable, and silent with large keys and large displays. Calculators may have only these functions: addition, subtraction, multiplication, division, equals, percent, square root, +/- key, and one memory register. No other calculators can be used during the event.

### **What NOT to bring:**

- Cell phones and smart watches will not be permitted.

### **People permitted in contest spaces:**

- Contestants
- KSU staff and volunteers assisting with the contest

**No other people will be allowed to enter contest spaces at any time during the contest. If items needed for the contest are left behind, adults are not permitted to bring them to their students.**

## Contest sections and point values

### A. *Written Test - (100 pts.) 30 minute time slot*

50 Multiple Choice or True/False questions over general knowledge of the horticulture industry, greenhouse production practices and floral design. Up to five of the questions may be problems to solve associated with placing orders, production planning, and/or determining sales prices of goods produced. Each contestant should bring a simple calculator; smart phones are not allowed.

### B. *Plant Identification - (100 pts.) 30 minute time slot*

50 specimens selected from the 2018 Kansas FFA Floriculture CDE plant materials list. See *Kansas Floriculture CDE Plant Identification Review*

### C. *Floral Design Practicum – (75 pts.) 30 minute time slot*

Retail floriculture practicum: questions will focus on floral design and marketing, to potentially include evaluation of floral arrangements and cut flowers; principles of floral design; supplies and equipment used in a flower shop; product selling (involving telephone and/or face-to-face); developing a product display; floral design construction (from creating to product sale); and customer service handling. Examples of hands-on activities for this category include: preparing a cut flower stem for use in a floral design or greening a container before flowers are added to a floral design. See: *Kansas FFA Floral Design Practicum Review* as a resource for one category of practicum information.

### D. *Greenhouse Production Practicum – (75 pts.) 30 minute time slot*

Questions will focus on greenhouse production practices, to potentially include evaluation of bedding plants or flowering potted crops, handling hazardous situations; supplies and equipment used in a greenhouse; constructing a dish garden; technical growing procedures (including potting, asexual propagation, pinching, etc.); and plant disorder identification and management (including nutritional, diseases and arthropod pests, mechanical and chemical damage); and media selling (advertising). Examples of hands-on activities (allow 5 to 7 minutes) for this category include: potting up a cell pack of begonias from plugs, taking a cutting of coleus or African violet, or properly harvesting a stem of cut flowers. See *Kansas FFA Floriculture Disorders Practicum Review* as a resource for one category of practicum information.

## Tiebreakers

Tiebreakers between teams of four contestants will be determined with highest average scores of Floral Design Practicum, followed by Greenhouse Production Practicum, followed by Written Test, followed by Plant Identification.

Tiebreakers between individuals will be determined with highest score on Floral Design Practicum, followed by Greenhouse Production Practicum, followed by Written Test, followed by Plant Identification.

## References and resources

On the Kansas FFA website, four files are available:

- Floriculture Plant Identification List
- Floriculture Plant Identification PowerPoint
- Floriculture Disorders
- Practicum Activities

Content for the Kansas Floriculture CDE is well aligned with the content of the National Floriculture CDE. Resources provided for the National Floriculture CDE are relevant for study and review for the Kansas Floriculture CDE. The materials are posted at [www.ffa.org/participate/cdes/floriculture](http://www.ffa.org/participate/cdes/floriculture) (login required). These include:

Four videos by Ball Horticulture that describe greenhouse production techniques evaluated as practicums:

- Potting of Young Plants
- Asexual Propagation of Plants
- Pinching Plants
- Making a Mixed Planter Combination

### Floriculture Classroom Resource developed by FFA National:

1. Unit One: *Greenhouse Care and Maintenance*
  - a. Lesson One: Materials and Equipment
  - b. Lesson Two: Growing Procedures
  - c. Lesson Three: Handling Chemicals
2. Unit Two: *Plant Disease and Pest Management*
  - a. Lesson One: Nutritional and Environmental Disorders
  - b. Lesson Two: Plant Diseases
  - c. Lesson Three: Insects and Pests
3. Unit Three: *Floral Design*
  - a. Lesson One: History of Floral Design
  - b. Lesson Two: Floral Design Concepts
  - c. Lesson Three: Equipment Identification and Floral Crops
  - d. Lesson Four: Pricing a Floral Arrangement
  - e. Lesson Five: Mechanics of Floral Design
4. Unit Four: *Business Practices*
  - a. Lesson One: Customer Service and Sales
  - b. Lesson Two: Advertisement Media
5. Unit Five: *Employment Skills*
  - a. Lesson One: Job Applications

- b. Lesson Two: Building a Resume
- c. Lesson Three: Job Interview

## **Key Content References**

American Institute of Floral Design (AIFD). The AIFD Guide to Floral Design: Terms, Techniques and Traditions.

Ball Redbook, Volume 1&2. 18<sup>th</sup> ed. Ball Publishing.

Ingels, Jack. Ornamental Horticulture: Science, Operations, and Management. 2009. Fourth Edition. Delmar Publishers.

Nelson, Paul V. 2012. Greenhouse Operation and Management, 7<sup>th</sup> ed. Prentice Hall.

Reiley, H. Edward and Carroll L. Shry, Jr. Introductory Horticulture, 8<sup>th</sup> ed. 2010. Delmar Cengage Learning.

Scace, Pat Diehl and James M. DelPrince. 2015. Principles of Floral Design: An Illustrated Guide. Goodheart-Wellcox Company, Inc.

Schroeder, C.B., E.D. Seagle, L.M. Felton, J.M. Ruter, W.T. Kelley, and G. Krewer. Introduction to Horticulture Science and Technology, 5<sup>th</sup> ed.. 2015. Interstate Publishers, Inc.

## **Floral Design Videos:**

By Nevada FFA Association: Learning about Floriculture Design and Management

- Making a grid: <https://www.youtube.com/watch?v=cfPu43ZQrdI>
- Making a cube arrangement: <https://www.youtube.com/watch?v=tj0prBxxN4Y>
- Recipes and vase types: <https://www.youtube.com/watch?v=0HG5TUfJ69Y>
- Corsages and hair combs: <https://www.youtube.com/watch?v=7DnfYC8Xqvg>

Comprehensive series of floral design videos by National Floriculture CDE Committee Member Randy Wooten, AIFD, available at PLOW (Professional Learning Online Workshops)  
[www.plowforteachers.com](http://www.plowforteachers.com), \$99/year

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Identification List

**Common Name**  
**BEDDING PLANTS**

**Scientific Name**

**Common Name**

**Scientific Name**

1	Ageratum	<i>Ageratum houstonianum</i>	67	African Violet	<i>Saintpaulia ionantha</i> cv.
2	Angelonia	<i>Angelonia</i> hybrid cv.	68	Amaryllis	<i>Hippeastrum</i> hybrid cv.
3	China Aster	<i>Callistephus chinensis</i> cv.	69	Anemone	<i>Anemone coronaria</i>
4	Cockscomb	<i>Celosia argentea</i> cv.	70	Astilbe	<i>Astilbe</i> hybrid cv.
5	Coleus	<i>Solenostemon scutellarioides</i>	71	Baby's Breath	<i>Gypsophila elegans</i> cv.
6	Dahlia	<i>Dahlia</i> hybrid cv.	72	Bearded Iris	<i>Iris x germanica florentina</i>
7	Dusty Miller	<i>Senecio cineraria</i>	73	Big Leaf Hydrangea	<i>Hydrangea macrophylla</i>
8	Globe Amaranth	<i>Gomphrena</i> hybrid cv.	74	Bird of Paradise	<i>Strelitzia reginae</i>
9	Impatiens	<i>Impatiens</i> hybrid	75	Caladium	<i>Caladium x hortulanum</i> cv.
10	Ivy Geranium	<i>Pelargonium peltatum</i>	76	Calla lily	<i>Zantedeschia</i> hybrid cv.
11	Vinca (Madagascar Periwinkle)	<i>Catharanthus roseus</i>	77	Campanula	<i>Campanula</i> hybrid cv.
12	Marigold	<i>Tagetes</i> species	78	Carnation	<i>Dianthus caryophyllus</i> cv.
13	Million bells	<i>Calibrachoa</i> hybrid cv.	79	Christmas Cactus	<i>Schlumbergera bridgesii</i>
14	Pansy	<i>Viola x wittrockiana</i> cv.	80	Cineraria	<i>Senecio x hybridus</i> cv.
15	Pentas	<i>Pentas</i> hybrid cv.	81	Clematis	<i>Clematis</i> hybrid cv.
16	Petunia (Common Garden)	<i>Petunia x hybrida</i> cv.	82	Garden Canna	<i>Canna x generalis</i> cv.
17	Ornamental pepper plant	<i>Capsicum annum</i>	83	Cymbidium Orchid	<i>Cymbidium</i>
18	Ornamental Sweet Potato	<i>Ipomoea batatas</i> cv.	84	Daffodil or Narcissus	<i>Narcissus</i> hybrid cv.
19	Portulaca	<i>Portulaca oleracea</i> cv.	85	Daylily	<i>Hemerocallis</i> cv.
20	Salvia	<i>Salvia splendens</i> cv.	86	Dendrobium Orchid	<i>Dendrobium</i> cv.
21	Sweet Alyssum	<i>Lobularia maritima</i>	87	Dutch Iris	<i>Iris x xiphium</i> cv.
22	Snapdragon	<i>Antirrhinum majus</i> cv.	88	English Ivy	<i>Hedera helix</i> cv.
23	Verbena	<i>Verbena</i> hybrid cv.	89	Flamingo Plant; Anthurium	<i>Anthurium x andraeanum</i>
24	Wax Begonia	<i>Begonia x semperflorens-cultorum</i>	90	Florist's Azalea	<i>Rhododendron simsii</i> cv.
25	Zinnia	<i>Zinnia</i> cv.	91	Florist's Chrysanthemum	<i>Chrysanthemum x morifolium</i>
26	Zonal Geranium	<i>Pelargonium x hortorum</i>	92	Florist's Cyclamen	<i>Cyclamen x persicum</i> cv.
27	<b>HERBS</b>		93	Florist Gloxinia	<i>Sinningia speciosa Fyfiana Group</i> cv.
28	Dill	<i>Anethum graveolens</i>	94	Freesia	<i>Freesia x hybrida</i>
29	Basil	<i>Ocimum basilicum</i> cv.	95	Gardenia	<i>Gardenia jasminoides</i>
30	Lemongrass	<i>Cymbopogon</i> cv.	96	Gerbera Daisy	<i>Gerbera jamesonii</i>
31	Parsley	<i>Petroselinum crispum</i> cv.	97	Gladiolus (Garden)	<i>Gladiolus x hortulanus</i> cv.
32	<b>FOLIAGE PLANTS</b>		98	Hens and Chicks	<i>Sempervivum</i> hybrid cv.
33	Aluminum Plant	<i>Pilea cadierei</i>	99	Hosta	<i>Hosta</i> cv.
34	Asparagus "Fern"	<i>Asparagus setaceus</i>	100	Hyacinth	<i>Hyacinthus orientalis</i> cv.
35	Barrel Cactus	<i>Echinocactus</i> cv.	101	Lily, Asiatic or Oriental	<i>Lilium</i> hybrid cv.
36	Benjamin Fig	<i>Ficus benamina</i> cv.	102	Hybrid Tea Rose	<i>Rosa hybrid Class Hybrid Tea</i>
37	Boston Fern	<i>Nephrolepis exaltata</i> cv.	103	Kalanchoe	<i>Kalanchoe x blossfeldiana</i> cv.
38	Chinese Evergreen; Aglaonema	<i>Aglaonema commutatum</i>	104	Ladyslipper Orchid	<i>Paphiopedilum</i> hybrid c.v.
39	Corn Plant; Dracaena	<i>Dracaena fragrans 'Massangeana'</i>	105	Larkspur	<i>Delphinium consolida</i> cv.
40	Croton	<i>Codiaeum variegatum pictum</i>	106	Leatherleaf Fern	<i>Rumohra adiantiformis</i>
41	Dwarf Shefflera	<i>Schefflera arboricola</i>	107	Liatis	<i>Liatis spicata</i>
42	Emerald Ripple Peperomia	<i>Peperomia caperata</i>	108	Trumpet (Easter) Lily	<i>Lilium longiflorum</i>
43	Golden Pothos; Devil's Ivy	<i>Epipremnum aureum</i> cv.	109	Lisianthus	<i>Eustoma grandiflorum</i> cv.
44	Grape Ivy	<i>Cissus rhombifolia 'Mandaiana'</i>	110	Monte Cassino Aster	<i>Aster pringlei</i>
45	Heartleaf Philodendron	<i>Philodendron scandens oxycardium</i>	111	Moth orchid	<i>Phalaenopsis</i>
46	Jade Plant	<i>Crassula argentea</i>	112	Peony	<i>Paeonia</i> cv.
47	Nephtytis	<i>Syngonium podophyllum</i>	113	Persian Violet	<i>Exacum affine</i>
48	Norfolk Island Pine	<i>Araucaria heterophylla</i>	114	Peruvian Lily; Alstroemeria	<i>Alstroemeria</i> hybrid cv.
49	Parlor Palm	<i>Chamaedorea elegans</i>	115	Pin Cushion Protea	<i>Lecuospermum</i> hybrid cv.
50	Peace Lily	<i>Spathiphyllum</i>	116	Poinsettia	<i>Euphorbia pulcherrima</i>
51	Prayer Plant	<i>Maranta leuconeura</i>	117	Primrose	<i>Primula malacoides</i> cv.
52	Cactus (Prickly Pear)	<i>Opuntia</i> tribe cv.	118	Ranunculus	<i>Ranunculus</i> hybrid cv.
53	Red Edged Dracaena	<i>Dracaena cincta</i>	119	Shasta Daisy	<i>Leucanthemum x superbum</i>
54	Rubber Plant	<i>Ficus elastica</i> cv.	120	Silver Dollar Eucalyptus	<i>Eucalyptus polyanthemus</i>
55	Sago Palm	<i>Cycas revoluta</i> cv.	121	Solidago (Goldenrod)	<i>Solidago</i> hybrid cv.
56	Shrimp Plant	<i>Justicia brandegeana</i>	122	Spring Heather	<i>Erica carnea</i> cv.
57	Silver Vase Bromeliad	<i>Aechmea fasciata</i> cv.	123	Statice	<i>Limonium sinuatum</i>
58	Snake Plant	<i>Sansevieria trifasciata</i> cv.	124	Stephanotis	<i>Stephanotis floribunda</i>
59	Spider Plant	<i>Chlorophytum comosum</i>	125	Stock	<i>Matthiola incana</i> cv.
60	Split Leaf Philodendron	<i>Monstera deliciosa</i>	126	Strawberry Plant	<i>Fragaria x ananassa</i> cv.
61	Spotted Dumbcane	<i>Dieffenbachia maculata</i>	127	Sunflower	<i>Helianthus annuus</i>
62	Sprengeri Fern	<i>Asparagus densiflorus</i>	128	Tuberous Begonia	<i>Begonia x tuberhybrida</i> cv.
63	Swedish Ivy	<i>Plectranthus nummularis</i>	129	Tulip	<i>Tulipa</i> cv.
64	Variiegated Peperomia	<i>Peperomia obtusifolia 'Variegata'</i>	130	Wax Flower	<i>Chamelaucium uncinatum</i>
65	Wandering Dude	<i>Tradescantia zebrina</i>			
66	Watermelon Peperomia	<i>Peperomia argyrea</i>			
	Wax Plant	<i>Hoya carnosa</i>			
	Zebra Plant, Aphelandra	<i>Aphelandra squarrosa</i> cv.			