

Southern Illinois University Invitational Horticulture Career Development Event

A. General Information

1. Registration:

There will be a two part registration. First, participants must register and pay online at JudgingCard.com. Registration will close at noon the day before the contest. Then participants must complete this form

<https://myfuture.siu.edu/register/Hort2021>

2. **Team:** A team shall consist of five (5) participants. The four (4) individuals with the best scores shall constitute the team score.
3. **Placings/Scoring:** Official scores and reasons will be given immediately following completion of the event.

B. Career Development Event Format and Cards Used

1. Complete a written examination on general horticulture. This exam consists of 50 multiple choice and/or True/False questions; a Scantron sheet is used to record student responses to questions (100 points).
2. Identify 50 plant materials which may include: (300 points)
 - a. Bulbs, underground stems, or plants
 - b. Bedding plants
 - c. Foliage plants
 - d. Flowering container plants
 - e. Cut flowers and foliage
 - f. Herbs
 - g. Herbaceous perennials
 - h. Ground covers and vines
 - i. Deciduous shrubs
 - j. Deciduous trees
 - k. Broadleaf evergreens
 - l. Coniferous plants

Note: The code sheet that is used to identify the plant materials on the Scantron card is attached with these rules.

3. Each participant will complete two-(2) landscape practicum (100 points per practicum).

C. Practicums

1. Landscape

a. Nursery Landscape Tool ID

Twenty-five (25) pieces of equipment from the following list will be displayed for participants to identify by technical names. Each piece of equipment will be designated by a number. Samples to identify may include a picture or the actual item.

1. anvil-and-blade pruner	18. hedge shears	33. reel mower
2. architect's scale	19. hoe	34. rotary mower
3. bow saw	20. leaf rake	35. rototiller
4. broadcast (cyclone) spreader	21. loppers	36. round point shovel
5. bulb planter	22. mattock	37. safety goggles
6. by-pass pruner	23. measuring wheel	38. scoop shovel
7. compressed air sprayer	24. oscillating sprinkler	39. siphon proportioner
8. chain saw	25. planting/earth/soil auger	40. soaker hose
9. drip emitter, irrigation	26. pole pruner	41. soil sampling tube
10. dust mask	27. pop-up irrigation head	42. spade
11. edger (power or hand)	28. post hole digger	43. square point (flat) shovel
12. garden (spading) fork	29. power leaf blower	44. string trimmer
13. garden (bow) rake	30. power hedge trimmer	45. tape measure
14. gas mask	31. propagation mat	46. tree caliper
15. gravity (drop) spreader	32. pruning saw	47. trowel
16. grass shears		48. t- square
17. hearing protection		

b. Pruning Nursery Stock

This practicum is designed to evaluate participants' knowledge of and ability in 1) assessing the problem presented, 2) reviewing alternative courses of action based on individual knowledge or reference information provided, and 3) deciding on a solution. Possible solutions will be presented in multiple-choice form for the participant to mark on a score sheet.

One or more nursery plants will be displayed with points marked for possible pruning cuts. No plant will actually be pruned. Participants are to evaluate each labeled point and decide if the plant part should be pruned or not for the improvement of the plant's health, form, and overall quality. The answer choice then will be the combination of cuts that should be made.

D. Suggested References

ITCS University of Illinois

X190 Horticulture Plant Identification Flash Cards (new)

<https://pubsplus.illinois.edu/X190.html>

MDS690 Horticulture Plant Identification - Digital Flash Card Set CD-ROM (new)

<https://pubsplus.illinois.edu/MDS690.html>

A catalog of instructional materials is available from ITCS Instructional Materials at

<https://pubsplus.illinois.edu/>. To place an order please call 1-800-345-6087, fax your order to 217-333-3917, or email pubsplus@illinois.edu

1. Miscellaneous

Dirr, M.A. 1998. *Manual of Woody Landscape Plants*. Stipes Publishing Co., 10-12 Chester St., Champaign, IL

Griffiths, M. 1994. *Index of Garden Plants*. Timber Press, Inc., Portland, OR

Hartmann, H.T. & D.E. Kester. 2002. *Plant Propagation*. Prentice-Hall, Inc., Englewood Cliffs, NJ.

Janick J. 1986. *Horticultural Science*. W.H. Freeman and Company, San Francisco, CA. Schrock, D. (editor), 2001. *Illinois Master Gardener Manual*. ITCS Instructional Materials,

University of Illinois, Urbana, IL

Still S. 1995. *Manual of Herbaceous Ornamental Plants*. Stipes Publishing Co., 10-12 Chester St., Champaign, IL

2. Judging Guides

* Classes 1a through 1c shall be judged according to:

University of Wisconsin at River Falls. A manual for flower judging (Pi Alpha Xi), eighth edition. Department of Plant and Earth Science, River Falls, WI 54022. (715)425- 3345

** Classes 1d through 1f shall be judged according to:

American Association of Nurserymen. 1973. American Standards for Nursery Stock. AAN, 230 Southern Building, Washington, DC.

3. Other

Career Development Events Handbook 2017-2021. National FFA Organization, P.O. Box 68960, 6060 FFA Drive, Indianapolis, IN.46268-6060.

<https://www.ashs.org/store/ViewProduct.aspx?id=2735868>

BULBS, UNDERGROUND STEMS, OR PLANTS	
101	Amaryllis
102	Caladium
103	Canna
104	Crocus
105	Dahlia
106	Gladiolus
107	Hyacinth
108	Bearded Iris
109	Asiatic/Oriental Lily
110	Narcissus
111	Tuberous Begonia
112	Tulip
BEDDING PLANTS	
113	Ageratum, <i>Ageratum houstonianum</i>
114	Cabbage, <i>Brassica oleraceae</i> v. <i>capitata</i>
115	Celosia, <i>Celosia</i> species
116	Coleus, <i>Coleus</i> species
117	Dusty Miller, <i>Senecio cineraria</i>
118	Green Pepper, <i>Capsicum grossum</i>
119	Impatiens, <i>Impatiens wallerana</i>
120	Ivy Geranium, <i>Pelargonium peltatum</i>
121	Lobelia, <i>Lobelia erinus</i>
122	Marigold, <i>Tagetes</i> species
123	Moss Rose, <i>Portulaca grandiflora</i>
124	New Guinea Impatiens, <i>Impatiens</i> species
125	Pansy, <i>Viola x wittrockiana</i>
126	Petunia, <i>Petunia x hybrida</i>
127	Regal Geranium, <i>Pelargonium x domesticum</i>
128	Salvia, <i>Salvia splendens</i>
129	Snapdragon, <i>Antirrhinum majus</i>
130	Sweet Alyssum, <i>Lobularia maritima</i>
131	Tomato, <i>Lycopersicon esculentum</i>
132	Vinca, <i>Catharanthus roseus</i>
133	Verbena, <i>Verbena x hybrida</i> cv.
134	Wax or Fibrous-rooted Begonia, <i>Begonia x semperflorens-cultorum</i>
135	Zinnia, <i>Zinnia elegans</i>
136	Zonal Geranium, <i>Pelargonium x hortorum</i>
FOLIAGE PLANTS	
137	Aloe Vera, <i>Aloe barbadensis</i>
138	Aluminum Plant, <i>Pilea cadierei</i>
139	Artillery Plant, <i>Pilea microphylla</i>
140	Boston Fern, <i>Nephrolepis exaltata</i> 'Bostoniensis'
141	Chinese Evergreen, <i>Aglaonema modestum</i>
142	Corn Plant, <i>Dracaena fragrans</i>
143	Creeping Fig, <i>Ficus pumila</i>
144	Croton, <i>Codiaeum variegatum pictum</i>
145	Devil's Ivy, <i>Epipremnum aureum</i>
146	Dumbcane, <i>Dieffenbachia</i> species
147	Emerald Ripple Peperomia, <i>Peperomia caperata</i> 'Emerald Ripple'

FOLIAGE PLANTS, continued	
148	False Aralia, <i>Dizygotheca elegantissima</i>
149	Friendship Plant, <i>Pilea involucrata</i>
150	Grape Ivy, <i>Cissus rhombifolia</i>
151	Hawaiian or Dwarf Schefflera, <i>Brassaia arboricola</i> (<i>Schefflera arboricola</i>)
152	Heartleaf Philodendron, <i>Philodendron scandenoxycardium</i>
153	Jade Plant, <i>Crassula ovata</i>
154	Mother-in-law's Tongue, <i>Sansevieria trifasciata</i>
155	Nephthytis or Trileaf Wonder, <i>Syngonium podophyllum</i>
156	Norfolk Island Pine, <i>Araucaria heterophylla</i>
157	Ovalleaf Peperomia, <i>Peperomia obtusifolia</i>
158	Parlor Palm, <i>Chamaedorea elegans</i>
159	Peace Lily, <i>Spathiphyllum floribundum</i>
160	Piggyback Plant, <i>Tolmiea menziesii</i>
161	Prayer Plant, <i>Maranta leuconeura kerchoveana</i>
162	Red Edge Dracaena, <i>Dracaena marginata</i>
163	Rubber Plant, <i>Ficus elastica</i>
164	Spider Plant, <i>Chlorophytum comosum</i>
165	Sprenger Asparagus, <i>Asparagus densiflorus</i> 'Sprengerii'
166	Strawberry Begonia, <i>Saxifraga stolonifera</i>
167	Striped Dracaena, <i>Dracaena deremensis Warneckii</i> '
168	Swedish Ivy, <i>Plectranthus</i> species
169	Tahitian Bridal Veil, <i>Gibasis geniculata</i>
170	Umbrella Schefflera, <i>Brassaia actinophylla</i>
171	Wandering Jew, <i>Zebrina pendula</i>
172	Watermelon Peperomia, <i>Peperomia argyreia</i>
173	Wax Plant, <i>Hoya carnosa</i>
174	Weeping Fig, <i>Ficus benjamina</i>
175	Zebra Plant, <i>Aphelandra squarrosa</i>
FLOWERING CONTAINER PLANTS	
176	African Violet, <i>Saintpaulia ionantha</i>
177	Azalea, <i>Rhododendron</i> species
178	Bromeliad, <i>Aechmea</i> species
179	Christmas cactus, <i>Schlumbergera bridgesii</i>
180	Cineraria, <i>Senecio x hybridus</i>
181	Cyclamen, <i>Cyclamen persicum</i>
182	Fuchsia, <i>Fuchsia x hybrida</i>
183	Gardenia, <i>Gardenia jasminoides</i>
184	Gloxinia, <i>Sinningia speciosa</i>
185	Hydrangea, <i>Hydrangea macrophylla</i>
186	Kalanchoe, <i>Kalanchoe blossfeldiana</i>
187	Persian Violet, <i>Exacum affine</i>
188	Pocketbook Plant or Calceolaria, <i>Calceolaria crenatiflora</i>
189	Poinsettia, <i>Euphorbia pulcherrima</i>
190	Primrose, <i>Primula</i> species
191	Tricolor Bromeliad, <i>Neoregelia carolinae</i> 'Tricolor'

CUT FLOWERS AND FOLIAGE	
192	Alstroemeria/Peruvian Lily
193	Baby's-Breath
194	Cymbidium Orchid
195	Emerald Palm
196	Eucalyptus
197	Florist's Chrysanthemum
198	Freesia
199	Gerbera/Transvaal Daisy
200	Leatherleaf Fern
201	Liatris
202	Miniature Carnation
203	Phalaenopsis Orchid
204	Pittosporum
205	Plumosus Asparagus
206	Rose
207	Salal
208	Scotch Broom
209	Standard Carnation
210	Statice
211	Wax Flower
HERBS	
212	Basil, <i>Ocimum basilicum</i>
213	Chives, <i>Allium schoenoprasum</i>
214	Lavender, <i>Lavandula angustifolia</i>
215	Oregano, <i>Origanum vulgare</i>
216	Parsley, <i>Petroselinum crispum</i>
217	Thyme, <i>Thymus</i> species
HERBACEOUS PERENNIALS	
218	Astilbe, <i>Astilbe x arendsii</i>
219	Blanketflower, <i>Gaillardia x grandiflora</i>
220	Bleeding Heart, <i>Dicentra spectabilis</i>
221	Columbine, <i>Aquilegia x hybrida</i>
222	Coreopsis, <i>Coreopsis</i> species
223	Daylily, <i>Hemerocallis</i> species
224	Delphinium, <i>Delphinium</i> species
225	Fountain Grass, <i>Pennisetum setaceum</i>
226	Foxglove, <i>Digitalis purpurea</i>
227	Lamb's Ear, <i>Stachys byzantina</i>
228	Oriental Poppy, <i>Papaver orientale</i>
229	Peony, <i>Paeonia lactiflora</i>
230	Plantain Lily, <i>Hosta</i> species
231	Purple Coneflower, <i>Echinacea purpurea</i>
232	Shasta Daisy, <i>Leucanthemum x superbum</i>
233	Zebra Grass, <i>Miscanthus sinensis</i> ' <i>Zebrinus</i> '
GROUND COVERS AND VINES	
234	Ajuga or Bugleweed, <i>Ajuga reptans</i>
235	Barren Strawberry, <i>Waldsteinia ternata</i>
236	Boston Ivy, <i>Parthenocissus tricuspidata</i>
237	Clematis, <i>Clematis</i> species
238	Creeping Bentgrass, <i>Agrostis palustris</i>
239	Creeping Phlox, <i>Phlox subulata</i>
240	Dragon's Blood Sedum, <i>Sedum spurium</i>
241	English Ivy, <i>Hedera helix</i>
242	Japanese Spurge, <i>Pachysandra terminalis</i>
243	Kentucky Bluegrass, <i>Poa pratensis</i>

GROUND COVERS AND VINES, cont'd	
244	Periwinkle, <i>Vinca minor</i>
245	Purpleleaf Wintercreeper Euonymus, <i>Euonymus fortunei</i> 'Coloratus'
246	Red Fescue, <i>Festuca rubra</i>
DECIDUOUS SHRUBS	
247	Alpine Currant, <i>Ribes alpinum</i>
248	Amur Privet, <i>Ligustrum amurense</i>
249	Anthony Waterer Spirea, <i>Spiraea x bumalda</i> 'Anthony Waterer'
250	Arrowwood Viburnum, <i>Viburnum dentatum</i>
251	Burkwood Viburnum, <i>Viburnum x</i> <i>burkwoodii</i>
252	Common Lilac, <i>Syringa vulgaris</i>
253	Compact Burning Bush, <i>Euonymus alata</i> 'Compacta'
254	Cranberry Bush Viburnum, <i>Viburnum</i> <i>opulus</i> or <i>Viburnum trilobum</i>
255	Firethorn, <i>Pyracantha coccinea</i>
256	Flowering Quince, <i>Chaenomeles speciosa</i>
257	Forsythia, <i>Forsythia x intermedia</i>
258	Japanese Barberry, <i>Berberis thunbergii</i>
259	Miss Kim Lilac, <i>Springa patula</i> 'Miss Kim'
260	Oakleaf Hydrangea, <i>Hydrangea quercifolia</i>
261	Potentilla, <i>Potentilla fruticosa</i>
262	Red Twig Dogwood, <i>Cornus alba</i>
263	Rockspray Cotoneaster, <i>Cotoneaster</i> <i>horizontalis</i>
264	Weigela, <i>Weigela florida</i>
DECIDUOUS TREES	
265	Bradford Callery Pear, <i>Pyrus calleryana</i> 'Bradford'
266	Common Thornless Honeylocust, <i>Gleditsia</i> <i>triacanthos inermis</i>
267	Eastern Redbud, <i>Cercis canadensis</i>
268	European Beech, <i>Fagus sylvatica</i>
269	Flowering Crabapple, <i>Malus</i> species
270	Flowering Dogwood, <i>Cornus florida</i>
271	Ginkgo, <i>Ginkgo biloba</i>
272	Green Ash, <i>Fraxinus pennsylvanica</i>
273	Horsechestnut, <i>Aesculus hippocastanum</i>
274	Littleleaf Linden, <i>Tilia cordata</i>
275	London Plane Tree, <i>Platanus x acerifolia</i>
276	Norway Maple, <i>Acer platanoides</i>
277	Pin Oak, <i>Quercus palustris</i>
278	Red Maple, <i>Acer rubrum</i>
279	Red Oak, <i>Quercus rubra</i>
280	River Birch, <i>Betula nigra</i>
281	Saucer Magnolia, <i>Magnolia x soulangiana</i>
282	Serviceberry, <i>Amelanchier</i> species
283	Sour (Black) Gum, <i>Nyssa sylvatica</i>
284	Sugar Maple, <i>Acer saccharum</i>
285	Sweetgum, <i>Liquidambar styraciflua</i>
286	Tulip Tree, <i>Liriodendron tulipifera</i>
287	Washington Hawthorn, <i>Crataegus</i> <i>phaenopyrum</i>
288	White Oak, <i>Quercus alba</i>
289	Willow, <i>Salix alba</i>

BROADLEAF EVERGREENS

- 290 Bayberry, *Myrica pensylvanica*
- 291 Boxwood, *Buxus* species
- 292 Catawba Rhododendron, *Rhododendron catawbiense*
- 293 Meserve Holly, *Ilex x meserveae*
- 294 Oregon Grapeholly, *Mahonia aquifolium*
- 295 Rhododendron PJM, *Rhododendron* 'PJM Hybrids'
- 296 Yucca, *Yucca* species

CONIFEROUS PLANTS

- 297 American Arborvitae, *Thuja occidentalis*
- 298 Bald Cypress, *Taxodium distichum*
- 299 Blue Colorado Spruce, *Picea pungens glauca*
- 300 Canadian Hemlock, *Tsuga canadensis*
- 301 Douglasfir, *Pseudotsuga menziesii*
- 302 Juniper, *Juniperus* species
- 303 Larch, *Larix* species
- 304 Mugo Pine, *Pinus mugo*
- 305 Norway Spruce, *Picea abies*
- 306 White Fir, *Abies concolor*
- 307 White Pine, *Pinus strobus*
- 308 Yew, *Taxus* species