

# 2012-2013

## HORTICULTURE TECHNOLOGY

### A.A.S. Program (A15240)

Most courses required to meet graduation requirements in this curriculum are offered during day hours only. Selected courses are offered each semester via the Internet. Minimum time for completion: Day -- five semesters full-time attendance for the full curriculum; Evening -- three semesters for the certificate program option. The Associate in Applied Science Degree is awarded graduates of this curriculum. A certificate is awarded graduates of the certificate program option.

Special University Articulation Agreement with North Carolina State University: NCSU may accept up to 15 semester credit hours in Horticulture from CVCC toward the Bachelor of Science in Horticulture Degree. A course grade of C or higher for each course is required. For details, call Darrell Kiser at extension 4238. CVCC has an 2 + 2 Articulation Agreement with N.C. Agricultural and Technological State University in Horticulture.

The Horticulture Technology curriculum is designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study. Course work includes plant science, plant materials, propagation, soils, fertilizers, and pest management. Also included are courses in plant production, landscaping, and the management and operation of horticulture businesses. Graduates should qualify for employment opportunities in nurseries, garden centers, greenhouses, landscape operations, gardens, and governmental agencies. Graduates should also be prepared to take North Carolina Pesticide Applicator's examination and the North Carolina Certified Plant Professional examination.

#### GENERAL EDUCATION COURSES:

SHC

|                               |                                 |   |
|-------------------------------|---------------------------------|---|
| English/Communications:       |                                 |   |
| ENG 111                       | Expository Writing .....        | 3 |
| ENG 114                       | Prof Research & Reporting.....  | 3 |
|                               | OR                              |   |
| ENG 112                       | Argument-Based Research .....   | 3 |
|                               | OR                              |   |
| ENG 113                       | Literature-Based Research.....  | 3 |
| Humanities/Fine Arts:         |                                 |   |
|                               | Elective .....                  | 3 |
| Natural Sciences/Mathematics: |                                 |   |
| MAT 115                       | Mathematical Models .....       | 3 |
| Social/Behavioral Sciences:   |                                 |   |
|                               | Elective .....                  | 3 |
| <b>MAJOR COURSES :</b>        |                                 |   |
| HOR 110                       | Intro to Landscaping.....       | 2 |
| HOR 112                       | Landscape Design I .....        | 3 |
| HOR 114                       | Landscape Construction .....    | 3 |
| HOR 116                       | Landscape Management I .....    | 3 |
| HOR 118                       | Equipment Op & Maint.....       | 2 |
| HOR 134                       | Greenhouse Operations.....      | 3 |
| HOR 160                       | Plant Materials I.....          | 3 |
| HOR 162                       | Applied Plant Science.....      | 3 |
| HOR 164                       | Hort Pest Management .....      | 3 |
| HOR 166                       | Soils & Fertilizers.....        | 3 |
| HOR 168                       | Plant Propagation.....          | 3 |
| HOR 170                       | Hort Computer Apps.....         | 2 |
| HOR 213                       | Landscape Design II .....       | 3 |
| HOR 215                       | Landscape Irrigation.....       | 3 |
| HOR 260                       | Plant Materials II .....        | 3 |
| HOR 265                       | Adv Plnt Materials .....        | 2 |
| HOR 273                       | Hor Mgmt & Marketing.....       | 3 |
| TRF 110                       | Intro Turfgrass Cult & ID ..... | 4 |

Co-op or Horticulture Elective..... 4

Please choose from the following:

|         |                                  |     |
|---------|----------------------------------|-----|
| COE XXX | Co-op .....                      | 1-4 |
| HOR 255 | Interiorscapes.....              | 2   |
| SPA 120 | Spanish for the Workplace .....  | 3   |
| TRF 110 | Intro Turfgrass Cult & ID .....  | 4   |
| TRF 120 | Turfgrass Irrigat & Design ..... | 4   |
| TRF 125 | Turfgrass Computer App .....     | 2   |
| TRF 130 | Native Flora ID .....            | 2   |
| TRF 140 | Turfgrass Mgmt Safety .....      | 3   |
| TRF 150 | Landscape Drafting .....         | 2   |
| TRF 151 | Intro Landscape Design .....     | 3   |
| TRF 152 | Landscape Maintenance .....      | 3   |
| TRF 210 | Turfgrass Eqmt Mgmt .....        | 3   |
| TRF 220 | Turfgrass Calculations .....     | 2   |
| TRF 230 | Turfgrass Mgmt Apps .....        | 2   |
| TRF 250 | Golf/Sport Field Const .....     | 4   |
| TRF 260 | Adv Turfgrass Mgmt .....         | 4   |

**Con't.**

## Horticulture Technology, Con't.

**Total Credit Hours Required .....**70

#### DEVELOPMENTAL COURSE REQUIREMENTS\*

|   |                               |   |
|---|-------------------------------|---|
| ENG 090   | Composition Strategies.....   | 3 |
| MAT DMA 010, DMA 020, DMA 030, DMA 040, DMA 050 | .....                         | 5 |
| RED 090   | Improved College Reading..... | 4 |

\*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

#### Horticulture Technology • A15240

#### Suggested Program Sequence Day

|                   |   | Class     | Lab       | Clin/WkExp | Credit    |
|-------------------|---|-----------|-----------|------------|-----------|
| Fall - 1st year   |   |           |           |            |           |
| TRF 110           | Intro Turfgrass Cult & ID               | 3         | 2         | 0          | 4         |
| HOR 118           | Equipment Op & Maint                    | 1         | 3         | 0          | 2         |
| HOR 162           | Applied Plant Science                   | 2         | 2         | 0          | 3         |
| HOR 166           | Soils and Fertilizers                   | 2         | 2         | 0          | 3         |
| ENG 111           | Expository Writing                      | 3         | 0         | 0          | 3         |
|                   | <b>Total</b>                            | <b>11</b> | <b>9</b>  | <b>0</b>   | <b>15</b> |
| Spring - 1st year |   |           |           |            |           |
| MAT 115           | Mathematical Models                     | 2         | 2         | 0          | 3         |
| HOR 168           | Plant Propagation                       | 2         | 2         | 0          | 3         |
| HOR 160           | Plant Materials I                       | 2         | 2         | 0          | 3         |
| HOR 116           | Landscape Management I                  | 2         | 2         | 0          | 3         |
| HOR 110           | Intro To Landscaping                    | 1         | 2         | 0          | 2         |
| ENG 114           | Prof Research and Reporting (Preferred) | 3         | 0         | 0          | 3         |
|                   | OR ENG 112 Argument-Based Research      | 3         | 0         | 0          | 3         |
|                   | OR ENG 113 Literature-Based Research    | 3         | 0         | 0          | 3         |
|                   | <b>Total</b>                            | <b>12</b> | <b>10</b> | <b>0</b>   | <b>17</b> |
| Summer - 1st year |   |           |           |            |           |
| HOR 112           | Landscape Design I                      | 2         | 3         | 0          | 3         |
| HOR 114           | Landscape Construction                  | 2         | 2         | 0          | 3         |
| HOR 260           | Plant Materials II                      | 2         | 2         | 0          | 3         |
|                   | <b>Total</b>                            | <b>6</b>  | <b>7</b>  | <b>0</b>   | <b>9</b>  |
| Fall - 2nd year   |   |           |           |            |           |
| HOR 170           | Horticulture Computer Apps              | 1         | 3         | 0          | 2         |
| HOR 213           | Landscape Design II                     | 2         | 2         | 0          | 3         |
| HOR 215           | Landscape Irrigation                    | 2         | 2         | 0          | 3         |
|                   | Hort Elective OR Co-Op Work Exp         |           |           |            | 2         |
| HOR 134           | Greenhouse Operations                   | 2         | 2         | 0          | 3         |
| HOR 273           | Hort. Bus. Mgmt.                        | 3         | 0         | 0          | 3         |
|                   | <b>Total</b>                            | <b>10</b> | <b>9</b>  | <b>0</b>   | <b>16</b> |
| Spring - 2nd year |   |           |           |            |           |
| HOR 164           | Horticulture Pest Management            | 2         | 2         | 0          | 3         |
| HOR 265           | Advanced Plant Materials                | 1         | 2         | 0          | 2         |
|                   | Humanities/Fine Arts Elective           | 3         | 0         | 0          | 3         |
|                   | Hort Elective OR Co-Op Work Exp         | 0         |           |            | 2         |
|                   | Social/Behavioral Science Elective      | 3         | 0         | 0          | 3         |
|                   | <b>Total</b>                            | <b>9</b>  | <b>4</b>  | <b>0</b>   | <b>13</b> |
|                   | <b>Grand Total</b>                      | <b>48</b> | <b>39</b> | <b>0</b>   | <b>70</b> |

## HORTICULTURE TECHNOLOGY Cert. Prog. (C15240)

#### MAJOR COURSES:..... SHC

|         |                            |   |
|---------|----------------------------|---|
| HOR 110 | Intro to Landscaping.....  | 2 |
| HOR 118 | Equipment Op & Maint ..... | 2 |
| HOR 134 | Greenhouse Operations..... | 3 |
| HOR 164 | Hort Pest Management ..... | 3 |
| HOR 168 | Plant Propagation.....     | 3 |
| HOR 215 | Landscape Irrigation.....  | 3 |
| HOR 255 | Interiorscapes.....        | 2 |

**Total Credit Hours Required .....**18

#### Horticulture Technology Cert. Prog. (C15240) Sug. Seq.

|                   |                              |           |           |          |           |
|-------------------|------------------------------|-----------|-----------|----------|-----------|
| Fall - 1st year   |                              |           |           |          |           |
| HOR 110           | Intro to Landscaping         | 1         | 2         | 0        | 2         |
| HOR 118           | Equipment Op & Maint         | 1         | 3         | 0        | 2         |
| HOR 134           | Greenhouse Operations        | 2         | 2         | 0        | 3         |
| HOR 215           | Landscape Imgation           | 2         | 2         | 0        | 3         |
|                   | <b>Total</b>                 | <b>6</b>  | <b>9</b>  | <b>0</b> | <b>10</b> |
| Spring - 1st year |                              |           |           |          |           |
| HOR 164           | Horticulture Pest Management | 2         | 2         | 0        | 3         |
| HOR 168           | Plant Propagation            | 2         | 2         | 0        | 3         |
| HOR 255           | Interiorscapes               | 1         | 2         | 0        | 2         |
|                   | <b>Total</b>                 | <b>5</b>  | <b>6</b>  | <b>0</b> | <b>8</b>  |
|                   | <b>Grand Total</b>           | <b>11</b> | <b>15</b> | <b>0</b> | <b>18</b> |

## 2012-2013

### HORTICULTURE TECHNOLOGY Landscape Design Diploma Program (D1524001)

|                                   |            |
|-----------------------------------|------------|
| <b>GENERAL EDUCATION COURSES:</b> | <b>SHC</b> |
| English/Communications:           |            |
| ENG 111 Expository Writing .....  | 3          |
| Natural Sciences/Mathematics:     |            |
| MAT 115 Mathematical Models ..... | 3          |

|                                      |   |
|--------------------------------------|---|
| <b>MAJOR COURSES :</b>               |   |
| HOR 110 Intro to Landscaping.....    | 2 |
| HOR 112 Landscape Design I .....     | 3 |
| HOR 114 Landscape Construction ..... | 3 |
| HOR 160 Plant Materials I.....       | 3 |
| HOR 162 Applied Plant Science.....   | 3 |
| HOR 164 Hort Pest Management .....   | 3 |
| HOR 166 Soils & Fertilizers.....     | 3 |
| HOR 170 Hort Computer Apps.....      | 2 |
| HOR 213 Landscape Design II .....    | 3 |
| HOR 215 Landscape Irrigation.....    | 3 |
| HOR 260 Plant Materials II .....     | 3 |
| HOR 265 Adv Plant Materials .....    | 2 |

**Total Credit Hours Required .....**39

**DEVELOPMENTAL COURSE REQUIREMENTS\***

|   |   |
|---|---|
| ENG 090 Composition Strategies .....                  | 3 |
| MAT DMA 010, DMA 020, DMA 030, DMA 040, DMA 050 ..... | 5 |
| RED 090 Improved College Reading .....                | 4 |

\*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

#### Horticulture Technology - Landscape Design (D1524001) Suggested Sequence

|                                      | Class     | Lab       | Clin/WkExp | Credit    |
|--------------------------------------|-----------|-----------|------------|-----------|
| <b>Fall - 1st year</b>               |           |           |            |           |
| ENG 111 Expository Writing           | 3         | 0         | 0          | 3         |
| HOR 162 Applied Plant Science        | 2         | 2         | 0          | 3         |
| HOR 166 Soils and Fertilizers        | 2         | 2         | 0          | 3         |
| HOR 170 Horticulture Computer Apps   | 1         | 3         | 0          | 2         |
| HOR 112 Landscape Design I           | 2         | 3         | 0          | 3         |
| HOR 215 Landscape Irrigation         | 2         | 2         | 0          | 3         |
| <b>Total</b>                         | <b>12</b> | <b>12</b> | <b>0</b>   | <b>17</b> |
| <b>Spring - 1st year</b>             |           |           |            |           |
| MAT 115 Mathematical Models          | 2         | 2         | 0          | 3         |
| HOR 110 Intro to Landscaping         | 1         | 2         | 0          | 2         |
| HOR 160 Plant Materials I            | 2         | 2         | 0          | 3         |
| HOR 164 Horticulture Pest Management | 2         | 2         | 0          | 3         |
| HOR 265 Advanced Plant Materials     | 1         | 2         | 0          | 2         |
| <b>Total</b>                         | <b>8</b>  | <b>10</b> | <b>0</b>   | <b>13</b> |
| <b>Summer - 1st year</b>             |           |           |            |           |
| HOR 213 Landscape Design II          | 2         | 2         | 0          | 3         |
| HOR 114 Landscape Construction       | 2         | 2         | 0          | 3         |
| HOR 260 Plant Materials II           | 2         | 2         | 0          | 3         |
| <b>Total</b>                         | <b>6</b>  | <b>6</b>  | <b>0</b>   | <b>9</b>  |
| <b>Grand Total</b>                   | <b>26</b> | <b>28</b> | <b>0</b>   | <b>39</b> |

### HORTICULTURE TECHNOLOGY Landscape Management Diploma Program (D1524002)

|                                   |            |
|-----------------------------------|------------|
| <b>GENERAL EDUCATION COURSES:</b> | <b>SHC</b> |
| English/Communications:           |            |
| ENG 111 Expository Writing .....  | 3          |
| Natural Sciences/Mathematics:     |            |
| MAT 115 Mathematical Models ..... | 3          |

|                                      |   |
|--------------------------------------|---|
| <b>MAJOR COURSES :</b>               |   |
| HOR 110 Intro to Landscaping.....    | 2 |
| HOR 114 Landscape Construction ..... | 3 |
| HOR 116 Landscape Management I.....  | 3 |
| HOR 118 Equipment Op & Maint .....   | 2 |
| HOR 160 Plant Materials I.....       | 3 |
| HOR 162 Applied Plant Science.....   | 3 |

**MAJOR COURSES (CONT.):**

|  |   |
|--|---|
| HOR 164 Hort Pest Management .....       | 3 |
| HOR 166 Soils & Fertilizers.....         | 3 |
| HOR 215 Landscape Irrigation .....       | 3 |
| HOR 260 Plant Materials II .....         | 3 |
| HOR 265 Adv Plant Materials .....        | 2 |
| Co-op or Turf/Horticulture Elective..... | 2 |

Please choose from the following:

|  |     |
|--|-----|
| COE XXX .....                            | 1-2 |
| HOR 255 .....                            | 3   |
| SPA 120 Spanish for the Workplace .....  | 3   |
| TRF 110 Intro Turfgrass Cult & ID .....  | 4   |
| TRF 120 Turfgrass Irrigat & Design ..... | 4   |
| TRF 125 Turfgrass Computer App .....     | 2   |
| TRF 130 Native Flora ID .....            | 2   |
| TRF 140 Turfgrass Mgmt Safety .....      | 3   |
| TRF 150 Landscape Drafting .....         | 2   |
| TRF 151 Intro Landscape Design .....     | 3   |
| TRF 152 Landscape Maintenance .....      | 3   |
| TRF 210 Turfgrass Eqmt Mgmt .....        | 3   |
| TRF 220 Turfgrass Calculations .....     | 2   |
| TRF 230 Turfgrass Mgmt Apps .....        | 2   |
| TRF 250 Golf /Sport Field Const .....    | 4   |
| TRF 260 Adv Turfgrass Mgmt .....         | 4   |

**Total Credit Hours Required .....** 37/38

**DEVELOPMENTAL COURSE REQUIREMENTS\***

|   |   |
|---|---|
| ENG 090 Composition Strategies .....                  | 3 |
| MAT DMA 010, DMA 020, DMA 030, DMA 040, DMA 050 ..... | 5 |
| RED 090 Improved College Reading .....                | 4 |

\*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

#### Horticulture Technology - Landscape Management (D1524002) Suggested Sequence

|                                      | Class     | Lab       | Clin/WkExp | Credit       |
|--------------------------------------|-----------|-----------|------------|--------------|
| <b>Fall - 1st year</b>               |           |           |            |              |
| ENG 111 Expository Writing           | 3         | 0         | 0          | 3            |
| HOR 118 Equipment Op & Maintenance   | 1         | 3         | 0          | 2            |
| HOR 162 Applied Plant Science        | 2         | 2         | 0          | 3            |
| HOR 166 Soils and Fertilizers        | 2         | 2         | 0          | 3            |
| HOR 215 Landscape Irrigation         | 2         | 2         | 0          | 3            |
| MAT 115 Math Models                  | 2         | 2         | 0          | 3            |
| <b>Total</b>                         | <b>12</b> | <b>11</b> | <b>0</b>   | <b>17</b>    |
| <b>Spring - 1st year</b>             |           |           |            |              |
| HOR 110 Intro to Landscaping         | 1         | 2         | 0          | 2            |
| HOR 116 Landscape Management I       | 2         | 2         | 0          | 3            |
| HOR 160 Plant Materials I            | 2         | 2         | 0          | 3            |
| HOR 164 Horticulture Pest Management | 2         | 2         | 0          | 3            |
| HOR 265 Advanced Plant Materials     | 1         | 2         | 0          | 2            |
| Co-op or HOR Elective                |           |           |            | 1/2          |
| <b>Total</b>                         | <b>8</b>  | <b>10</b> | <b>0</b>   | <b>14/15</b> |
| <b>Summer - 1st year</b>             |           |           |            |              |
| HOR 114 Landscape Construction       | 2         | 2         | 0          | 3            |
| HOR 260 Plant Materials II           | 2         | 2         | 0          | 3            |
| <b>Total</b>                         | <b>4</b>  | <b>4</b>  | <b>0</b>   | <b>6</b>     |
| <b>Grand Total</b>                   | <b>24</b> | <b>25</b> | <b>0</b>   | <b>37/38</b> |