

## **B.S.** in Agriculture Sustainable Plant Systems Specialization: Turfgrass Science **Effective Autumn 2017**

rev. 12/20/20

All students must complete two Global Issues courses (A). All students must take a Social Diversity requirement in the GE by completing Rural Sociology 1500 or Sociology 1101.

| FAES 1100 (0.5 cr hr) HCS 1100 (0.5 cr hr)          | .5, .5 | Historical Study (see approved CFAES GE List)                    | 3        |
|---|--------|--|----------|
| Writing Level 1 (English 1110                       | 3      | Culture & Ideas or Historical Study (see approved CFAES GE List) | 3        |
| Writing Level 2 (2367) see approved CFAES GE List   | 3      | Literature (see approved CFAES GE List)                          | 3        |
| Agr Comm 3130 or Comm 2110                          | 3      | Art (see approved CFAES GE List)                                 | 3        |
| Math 1130, 1148, 1151, or 1156                      | 4 or 5 | Contemporary Issues (see approved CFAES GE List)                 | 3        |
| Data Analysis (HCS 2260 recommended)                | 3      | Internship (HCS 4191.01)   | 2        |
| Biological Science (Bio 1113 req'd)                 | 4      | Total GE Credit Hours  | 57 or 58 |
| Physical Science Chem 1110, 1210, or 1220           | 5      | SPS-Turfgrass Science Specialization                             | 42-43    |
| Add'l. Sci. (HCS 2201 Ecol of Mng'd Plt Sys. req'd) | 4      | SPS-Minor Equivalent   | 15-18    |
| Opt. 1 (HCS 2202 Frm & Fxn Cult Plt req'd)          | 4      | Electives  | 2-7      |
| Social Science 1 (Rural Soc 1500 or Sociol 1101)    | 3      | Total Credit Hours   | 121      |
| Social Science 2 (AED Econ 2001 or Econ 2001)       | 3      | Total Cicuit Hours   | 141      |

42-43

## TURFGRASS SPECIALIZATION

## Required Courses – Turfgrass Specialization

| HCS        | 2270 | Hist. Perspectives on Golf Course            | 2 |
|------------|------|--|---|
| HCS        | 3310 | Crop Responses to the Environment            | 3 |
| HCS        | 3370 | Sports Turf Management                       | 2 |
| HCS        | 3420 | Seed Science                                 | 3 |
| HCS        | 3470 | Principles of Turfgrass Management           | 3 |
| HCS        | 4504 | Advanced Golf Operations (Capstone)          | 3 |
| HCS        | 4570 | Turfgrass Management and Science             | 3 |
| HCS        | 5422 | Biology & Mgmt. of Weeds and Invasive Plants | 3 |
| HCS        | 5670 | Golf Courses and the Environment             | 2 |
| ENR        | 3000 | Soil Science                                 | 3 |
| ENTMLGY    | 4600 | Intro to Insect Science                      | 1 |
| ENTMLGY    | 4601 | General Insect Pest Management               | 2 |
| or ENTMLGY | 4602 | Urban Landscape and Greenhouse Entom.        | 2 |
| PLNTPTH    | 3001 | General Plant Pathology                      | 3 |
| PLNTPTH    | 3002 | General Plant Pathology Lab                  | 2 |

| <b>Electives</b> | Courses – T | Turfgrass Specialization              | 6-7      |
|------------------|-------------|---------------------------------------|----------|
| HCS              | 2340.01     | Woody Ornamental Plants               | 3        |
| HCS              | 2340.02     | Herbaceous Ornamental Plants          | 3        |
| HCS              | 2501        | Basic Club Design and Repair          | 1        |
| HCS              | 3220        | Crop Origins and Diversity            | 2        |
| HCS              | 3320        | Plant Propagation                     | 3        |
| HCS              | 3380        | Latino Workforce in Land Based Indu   | ıstry 2  |
| HCS              | 3488.01     | Profess. Devel. in Hort and Crop Scie | ence 1-3 |
| HCS              | 3522        | Sustainable Irrigation                | 2        |
| HCS              | 4193        | Individual Studies                    | 1-3      |
| HCS              | 4325        | Plant Genetics                        | 3        |
| HCS              | 4560        | Creating a Virtual Perspective        | 3        |
| HCS              | 4999        | Research with Distinction             | 1-3      |
| HCS              | 4999H       | Honors Research with Distinction      | 1-3      |
| HCS              | 5097.010    | 04 Study Abroad Pre-Depart Course     | 1        |
| HCS              | 5797.010    | 04 Study Abroad                       | 3        |
| HCS              | 5193        | Independent Study                     | 1-3      |
| HCS              | 5601        | Digital Portfolio Development         | 1        |
| HCS              | 5602        | Ecology of Agriculture (Capstone)     | 3        |
| HCS              | 5621        | Physiol. of Cultivated Plants         | 3        |
| HCS              | 5622        | Biochem. Proc. in Cultivated Plants   | 3        |
| HCS              | 5730        | Seed Ecology and Physiology           | 2        |

MINOR EQUIVALENT 15 Students must take the following two courses (7 credits), as well as 8 to 11 credits from one of the groups below.

| Required Co | urses |   | 6           |  |  |
|-------------|-------|---|-------------|--|--|
| ENR         | 5272  | Turfgrass Soils                             | 2           |  |  |
| PLNTPTH     | 5130  | Turfgrass Diseases/ITHM                     | 4           |  |  |
| G 4 N       |       |   |             |  |  |
| Group A - N |       |   | 9-12        |  |  |
| AEDECON     | 3101  | Principles of Agribusiness Management       | 3           |  |  |
| AEDECON     | 3102  | Principles of Agribusiness Marketing        | 3 2         |  |  |
| AEDECON     | 3160  | Human Resource Mgmt in Small Business       | 2           |  |  |
| AGSYSMT     | 2240  | Basic Metal Fabrication for Agriculture     | 3           |  |  |
| AGSYSMT     | 3232  | Engines and Power Transmission              | 3           |  |  |
| AGSYSMT     | 4580  | Precision Agriculture                       | 3           |  |  |
| BUSMHR      | 2210  | Personal Leadership & Team Effectiveness    | 3           |  |  |
| BUSML       | 3150  | Foundations of Marketing                    | 3           |  |  |
| CONSCI      | 2910  | Consumer Problems and Perspectives          | 3           |  |  |
| CONSCI      | 3910  | Consumer Service and Satisfaction           | 3           |  |  |
| ENR         | 3001  | Soil Science Laboratory                     | 1           |  |  |
| ENR         | 5279  | Urban Soils and Ecosystem Services          | 3           |  |  |
| ENTMLGY     | 5500  | Biological Control                          | 3           |  |  |
| ENTMLGY     | 5600  | Integrated Pest Management                  | 3<br>3<br>3 |  |  |
| ENTMLGY     | 5800  | Pesticide Science                           | 3           |  |  |
| PLNTPTH     | 5603  | Plant Disease Management                    | 3           |  |  |
|             | _     |   |             |  |  |
| Group B -R  |       |   | 9-12        |  |  |
| CHEM        | 2310  | Introductory Organic Chemistry <sup>1</sup> | 4           |  |  |
| BIOCHEM     | 4511  | Introduction to Biological Chemistry        | 4           |  |  |
| EEOB        | 3310  | Evolution                                   | 4           |  |  |
| EEOB        | 3410  | Ecology                                     | 4           |  |  |
| ENR         | 5268  | Soils and Climate Change                    | 2 3         |  |  |
| GEOG        | 5900  | Weather, Climate, & Global Warming          | 3           |  |  |
|             |       |   |             |  |  |

 $^1\mathrm{CHEM}$  2310 prerequisites: 1110, 1220 (122), 1250 (125), 1620, or 1920H. Not open to students with credit for 2510 (251), 2610, or 2910H