

# AGRICULTURE, BACHELOR OF SCIENCE WITH A CONCENTRATION IN AGRONOMY, SOILS AND NATURAL RESOURCES (B.S.)

## Program Requirements

CIP Code: 01.0301

### Summary Checklist for General Education

| Code               | Title   | Hours     |
|--------------------|---|-----------|
| <b>Element 1</b>   |   |           |
| A:                 | Written Communication ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/</a> )                 | 3         |
| B:                 | Written Communication ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/</a> )                 | 3         |
| C:                 | Oral Communication ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/</a> )                    | 3         |
| <b>Element 2</b>   |   |           |
|                    | Quantitative Reasoning ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-2/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-2/</a> )                | 3         |
| <b>Element 3</b>   |   |           |
| A:                 | Arts ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/</a> )                                  | 3         |
| B:                 | Humanities ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/</a> )                            | 3         |
| <b>Element 4</b>   |   |           |
|                    | Natural Sciences ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-4/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-4/</a> )                      | 6         |
| <b>Element 5</b>   |   |           |
| A:                 | Historical Science ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/</a> )                    | 3         |
| B:                 | Social Behavioral Science ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/</a> )             | 3         |
| <b>Element 6</b>   |   |           |
|                    | Diversity of Perspectives Experiences ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-6/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-6/</a> ) | 6         |
| <b>Total Hours</b> |   | <b>36</b> |

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

| Code  | Title  | Hours      |
|---|--|------------|
| <b>University Graduation Requirements</b>   |  |            |
| General Education   |  | 36         |
| SCO 100   | Student Success Seminar  | 1          |
| <i>Student Success Seminar</i>  |  |            |
| Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories) |  |            |
| <b>Major Requirements</b>   |  |            |
| <i>Core Courses</i>   |  |            |
| Choose from one of the following:   |  | 4          |
| AGR 130 & AGR 131   | Plant Science and Plant Science Laboratory                                     |            |
| OHO 131 & OHO 132   | Plant Science and Plant Science Laboratory                                     |            |
| AGR 115   | Operation of Agricultural Equipment  | 2          |
| AGR 170   | Appl Unmanned Aerial Sys Agri  | 3          |
| AGR 213   | Principles of Agricultural Mechanics and Energy Systems                        | 3          |
| AGR 215   | Principles of Soils  | 3          |
| AGR 216   | Principles of Soils Laboratory   | 1          |
| AGR 304   | Pest Management  | 4          |
| AGR 305   | Professional Skills Seminar  | 1          |
| AGR 308   | Agricultural Economics   | 3          |
| AGR 310   | Principles of Agribusiness Management  | 3          |
| AGR 319   | Renewable and Sustainable Energy Systems                                       | 3          |
| AGR 340   | Conservation of Agricultural Resources   | 3          |
| AGR 411   | Senior Seminar   | 1          |
| <b>Concentrations</b>   |  |            |
| Students must select one of the following Concentrations:   |  |            |
| Agribusiness Management   |  |            |
| Agriculture Engineering Technology  |  |            |
| Agronomy, Soils and Natural Resources   |  | 44         |
| Livestock Management  |  |            |
| Fruit, Vegetable, Nursery and Greenhouse Production   |  |            |
| Turfgrass and Landscape   |  |            |
| <i>Supporting Course Requirements</i>   |  |            |
| BIO 111 or BIO 112  | Cell and Molecular Biology (Element 4) <sup>G</sup> or Ecology and Evolution   |            |
| CHE 101 & 101L  | Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup> |            |
| ECO 120   | Economic Reasoning and Issues (Element 5B) <sup>G</sup>                        |            |
| Choose from one of the following:   |  | 3          |
| CIS 212   | Introduction to Computer Information Systems                                   |            |
| INF 104   | Computer Literacy with Software Applications                                   |            |
| TEC 161   | Computer Applications in Technology  |            |
| <i>Free Electives</i>   |  |            |
| Choose from 2 hours of free electives   |  | 2          |
| <b>Total Hours</b>  |  | <b>120</b> |

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

| Code  | Title   | Hours     |
|---|---|-----------|
| <b>Concentration Courses</b>  |   |           |
| AGR 125   | Principles of Animal Science                      | 3         |
| AGR 126   | Animal Science Laboratory                         | 1         |
| AGR 312   | Ecology and Management of Grasslands and Pastures | 4         |
| AGR 345   | Sustainable Agroecosystems                        | 3         |
| AGR 404   | Advanced Pest Management                          | 3         |
| AGR 416   | Soil Fertility and Management                     | 3         |
| AGR 430   | Field Crop Production                             | 3         |
| AGR 570   | Advanced Technical Agriculture:___                | 3         |
| Choose from three hours of Upper Division electives in AGR and/or OHO |   | 3         |
| <i>Additional Supporting Course Requirements</i>                      |   |           |
| GEO 353   | Geographic Information Systems                    | 3         |
| <i>Program Electives</i>  |   |           |
| <b>Experiential Learning:</b>   |   |           |
| Choose from three hours of the following:                             |   | 3         |
| AGR 301   | Directed Work Experience                          |           |
| AGR 302   | Directed Work Experience- Management Practicum    |           |
| AGR 349   | Applied Learning in Agriculture                   |           |
| OHO 301   | Directed Work Experience                          |           |
| OHO 349   | Applied Learning in Horticulture                  |           |
| <b>ACCT Capstone:</b>   |   |           |
| Choose from one of the following:                                     |   | 3         |
| AGR 499   | Agricultural Advocacy and Issues Capstone         |           |
| AGR 509   | Agriculture Research Methods and Interpretation   |           |
| OHO 498   | Turf Grass Capstone                               |           |
| OHO 499   | Horticultural Issues Capstone                     |           |
| Choose from nine hours of Upper Division Electives in AGR and/or OHO  |   | 9         |
| <b>Total Hours</b>  |   | <b>44</b> |