

## Agriculture Program Outcomes Crosswalk and 7-Year Assessment Plan

- IO1 **Communication:** Students will be able to communicate clearly and effectively within a workplace context
- IO2 **Quantitative Reasoning:** Students will be able to reason mathematically using methods appropriate to the profession
- IO3 **Human Relations/Workplace Skills:** Students will be able to demonstrate teamwork and/or workplace specific skills related to human relations
- PO4 Students will demonstrate critical-thinking and problem-solving skills as they make decisions in agricultural management situations
- PO5 Students will demonstrate knowledge of scientific principles when applied to a variety of crop production systems
- PO6 Students will show knowledge of workplace safety when handling food, chemical/pesticides, and equipment
- PO7 Students will select and use the appropriate precision and software application technology
- PO8 Students will demonstrate knowledge of business principles when applied to agricultural businesses and operations.
- PO9 Students will select and use the appropriate precision and software application technology
- PO10 Students will collect and evaluate data from various technologies and make management decisions from the data collected.
- PO11 Students will apply the rules, protocols, and safety required to operate an unmanned aerial system for commercial agriculture purposes
- PO12 Students will apply plant and soil science concepts to crop production.

| <b>AG PROGRAM OUTCOME AND COURSE CROSSWALK</b> |  |            |            |            |            |            |            |            |            |            |             |             |             |
|--|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|
| <b>Course #</b>                                | <b>Course Name</b>                     | <b>IO1</b> | <b>IO2</b> | <b>IO3</b> | <b>PO4</b> | <b>PO5</b> | <b>PO6</b> | <b>PO7</b> | <b>PO8</b> | <b>PO9</b> | <b>PO10</b> | <b>PO11</b> | <b>PO12</b> |
| AGR 101  | ORIENTATION TO AG INDUSTRIES & CAREERS | X          |            |            |            |            | X          |            |            |            |             |             |             |
| AGR 110  | WATER MGMT. IN AG                      |            | X          |            |            |            | X          |            |            |            |             |             | X           |
| AGR 120  | INTRO TO PRECISION AG                  |            |            |            |            | X          | X          |            |            |            |             |             |             |
| AGR 211  | AG WEEDS IDENTIFICATION & CONTROL      |            | X          |            |            |            | X          |            |            |            |             |             | X           |
| AGR 212  | AG SAFETY & PESTICIDES                 |            |            | X          | X          |            | X          |            |            |            |             |             |             |
| AGR 241  | FARM & RANCH MGMT.                     |            | X          |            |            | X          | X          |            |            |            |             |             |             |
| AGR 251  | INTEGRATED PEST MGMT.                  |            |            |            |            |            | X          |            |            |            |             |             | X           |
| AGR 261  | PLANT SCIENCE                          |            |            |            |            |            | X          | X          |            |            |             |             |             |
| AGR 263  | SOILS                                  |            |            |            |            |            | X          | X          |            |            |             |             |             |
| AGR 265  | CROP PRODUCTION                        |            |            |            |            |            | X          |            |            |            |             |             | X           |



