**Student Learning Outcomes for the Plant Sciences Undergraduate Major**

**January 2012**

**1. Explain the structure and function of cells, tissues, organs and their organization in the whole plant.**

**2. Explain the mechanistic basis of plant growth and development and physiological responses to biotic and abiotic factors.**

**3. Describe the diversity of plant form and function.**

**4. Describe the expression and inheritance of traits.**

**5. Develop critical thinking skills by evaluating information from multiple perspectives, drawing reasonable conclusions, and defending them rationally.**

**6. Communicate the importance of plant science in addressing major challenges facing society, including examples of how plant scientists have “solved” such problems.**

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|  | **Outcome 1** | **Outcome 2** | **Outcome 3** | **Outcome 4** | **Outcome 5** | **Outcome 6** |
| **PLS 240** | **X** | **X** | **X** |  |  | **x** |
| **PLS 312** |  |  |  | **X** | **X** | **x** |
| **PLS 359** | **X** | **x** |  |  | **x** | **x** |
| **PLS 360** | **x** | **X** |  |  | **x** | **x** |

X = Covered to a major extent

x = Covered to a minor extent