<table>
<thead>
<tr>
<th>Student Learning Outcome/Course</th>
<th>Intro</th>
<th>Pract</th>
<th>Master</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 105, CHEM 107 or 111, CHEM 108 or 112, ABUS 101 or 262, AGET 120 or 150, PSSC 101, PSSC 250, ANSC 101 or 230, PSSC 274, PSSC 309, PSSC 334, PSSC 340, PSSC 342, PSSC 343, PSSC 353, PSSC 356, PSSC 361, PSSC 366, PSSC 441, PSSC 453, BIOL 414, BIOL 448, AGRI 432 or ABUS 321, AGRI 305, AGRI 331, AGRI 482, AGRI 490</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Goal: Technically competent in their chosen field of agriculture and able to make sound judgments.

- Knowledge of important plant production systems in California
  I P M

- Demonstrate basic principles of plant protection
  I P P P P P P P M

- Knowledge of photosynthesis and factors that regulate it
  I P P P M

- Knowledge of agricultural genetics
  I P P P M P

- Demonstrate how plants grow, their parts and functions
  I P P P P P P M M P

- An understanding of soils, soil fertility and plant mineral nutrition
  I P P P P P M P

Goal: Demonstrate the ability to identify the appropriate methodologies to solve analytical problems.

- Knowledge of basic experimental design
  I I P

- Demonstrate quantitative/analytical skills
  I I I I I I I I P P P M

- Demonstrate the scientific method
  I I P P P P P P P P M

Goal: Capable of communicating clearly and concisely.

- Demonstrate effective verbal communication in Agriculture
  I I P P P P P M M

- Demonstrate effective written communication in Agriculture
  I I P P P P P M M

Goal: Aware of the complex interrelationships of natural and agricultural systems.

- Be able to apply ecological principles for the management of agricultural systems
  I P P M
Goal: Have an international and domestic perspective of historical and current issues as applied to agriculture.

Identify ethical issues and appropriate solutions