

## Course Requirements for National Needs Fellows

| Course name  | Course number       | Units                    |
|--|---------------------|--------------------------|
| <b>Required courses for the MS Agriculture with Specialization in Food Science</b>                         |                     |                          |
| Orientation to Food and Nutrition Research   | FSN 580             | 1                        |
| Research Planning  | SS 501              | 4                        |
| Statistical Methods  | STAT 511            | 4                        |
| Chemistry of Food Systems  | FSN 564             | 4                        |
| Advanced Food Safety   | FSN 575             | 4                        |
| Thesis   | FSN 599             | 9                        |
| <b>Total:</b>  |                     | <b>26</b>                |
| <b>Electives required for the NNF</b>  |                     |                          |
| Industry FS Tour or<br>Meat Industry Study Tour  | FSN 466<br>ASCI 425 | 3 or<br>2                |
| Agribusiness Policy and Program Analysis   | AGB 543             | 4                        |
| Graduate Seminar in Food Science and<br>Nutrition – <b>Food Waste</b>                                      | FSN 581             | 3                        |
| Solid Waste Management<br>(Prerequisite: ENVE 331, Introduction to<br>Environmental Engineering – 4 units) | ENVE 439            | 3                        |
| Center for Sustainability Lecture Series   | FSN 500             | R <sup>a</sup>           |
| Internship   | FSN 500             | 1                        |
| Leadership Practicum   | FSN 500             | 1                        |
| <b>Total:</b>  |                     | <b>14-15<sup>b</sup></b> |
| Total numbers of other electives:  |                     | <b>4-5<sup>c</sup></b>   |
| <b>Total number of credits:</b>  |                     | <b>45</b>                |

<sup>a</sup>: required, no credit will be awarded.

<sup>b</sup>: number of required electives without counting prerequisites.

<sup>c</sup>: Other electives will be selected depending on the research focus of each student.

## Additional Requirements for National Needs Fellows

NN Fellows will also be required to complete these additional requirements:

**Teaching practicum.** Each Fellow will be given the opportunity to develop their leadership skills by being the mediator of student's learning. Teaching experience will be implemented gradually during year 1 and year 2 of the Master program.

**Internship focusing on agricultural and food waste.** The agricultural and food industry represents \$25 billion in California, and every year, food industry recruiters come at Cal Poly to hire our best students for internship and jobs. Each Fellow will do a mandatory 10-week internship.

**Mentoring of domestic and international undergraduate students.** Each Fellow will have the opportunities to develop some of his/her skills through mentoring of domestic or international undergraduate students.