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| **Food Science and Nutrition Department – Graduate** **Program** **Jordan College of Agricultural Science and Technology** **Student Outcomes Assessment Plan (SOAP)—2020** **I. Mission Statement** |

The mission of the faculty of the Department of Food Science and Nutrition is to:

• Impart food-related knowledge and skills to our students

• Apply food-related knowledge and skills to research and scholarly activity

• Integrate with industry and students to apply food-related knowledge and skills to advance the region

**II. Goals and Student Learning Outcomes*Goal 1: Students will be provided fundamental knowledge in food and nutritional science. This knowledge will enable them to:***

Outcome 1.1: Demonstrate knowledge and understanding of the field

Outcome 1.2: Apply theoretical information to solve a practical problem

Outcome 1.3: Analyze central issues and current research areas that are important in the field

***Goal 2: Students will formulate a scientific hypothesis and conduct research to verify the hypothesis using an appropriate experimental design and sampling scheme. In doing so they will be able to:*** Outcome 2.1: Develop a research proposal

Outcome 2.2: Identify and analyze data collected using appropriate methodology

***Goal 3: Students will have knowledge of and familiarity with advanced equipment and analytical techniques and be able to:***

Outcome 3.1: Apply the appropriate techniques or methodology

***Goal 4: Students will enhance their Writing and oral skills and be able to:***

Outcome 4.1: Present research findings professionally

Outcome 4.2: Synthesize and analyze data in a journal formatted project/thesis

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**III. Plant Science Graduate Curriculum Map (Matrix of Courses X Learning Outcomes)***I= Introduced, R= Reinforced, A = Advanced*

**Curriculum Map (Matrix of Courses X Learning Outcomes)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Student Learning Outcomes:** | SLO 1.1  | SLO 1.2  | SLO 1.3  | SLO 2.1  | SLO 2.2  | SLO 3.1  | SLO 4.1  | SLO 4.2 |
| **All Options:** |  |  |  |  |  |  |  |  |
| PH202/AGRI200  | I  | I  | I  | I |  |  |  |  |
| FN229 (First unit) | I  | I  | I  | I  | I  | I  | I  | I |
| FN200/AGRI 220  |  | I  | I  | D  | D  | I  | I  | D |
| FN223  | D  | D  | D |  |  |  |  |  |
| FN229 (second and third unit) | D  | D  | D  | D  | D  | D  | D  | D |
| FN230/FN 221T  | M  | M  |  |  |  | D  | D |  |
| FN250  | M  | M  | M  |  |  | D |  |  |
| FN290  | M  |  |  |  |  | M  | M  | M |
| FN299  | M  | M  | M  | M  | M  | M  | M  | M |

**Student Learning Outcomes X Assessment Methods Matrix**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | SLO 1.1 | SLO 1.2 | SLO 1.3 | SLO 2.1 | SLO 2.3 | SLO 3.1 | SLO 4.1 | SLO 4.2 |
| 1. Written Assignments  | X  | X  | X  | X  | X  | X  | X  | X |
| 2. Oral presentations  | X  | X  | X |  |  |  |  |  |
| 3. Course examination | X  | X  | X |  |  |  |  |  |
| 4. Thesis/project proposal | X  | X  | X  | X  | X  | X  | X  | X |
| 5. written thesis/project | X  | X  | X  | X  | X  | X  | X  | X |
| 6. Senior Exit Survey  | X  | X  | X  | X  | X  | X  | X  | X |

**I. Timeline for Implementation of Assessment Methods**

Year 2020 to 2021:

**FN 229: Seminar**

Method 1 & 2: Written Assignments & oral presentation

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Year 2021 to 2022:

**FN 230 : Advanced Nutrition Counseling**

Method 1 &2: Written Assignments - Oral presentations

Year 2022 to 2023:

**FN 223: Food, Nutrition, and Health**

Method 3: Comprehensive final exam

Year 2023 to 2024:

**FN 299: Thesis**

Method 4 : Thesis/project proposal

Year 2024 to 2025:

**FN 250: Food and Nutrition Resource Management**

Method 5: written thesis/project

**Process for Closing the Loop**

Our department will evaluate one of our three options (Dietetic, Food Science and Culinology) per year. Our department will decide about the assessment methods in department weekly meeting for each option and the assessment coordinator will use the meeting time to plan and monitor the progress of the evaluation. All faculty members will review and discuss annual assessment report findings during meetings. If faculty decide opportunities exist to better assist our students, a revision will be considered/plan for teaching capacity building, student learning outcomes adjustments, the methods for assessment and/or program curriculum modifications.

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