

THESIS TRACK-Nutrition and Food Science Specialization

REQUIRED COURSES-

AG 500 Introduction to Graduate Research in the Agricultural Sciences (3) F

AG 510 Design and Analysis of Experimental Research I: Methods for ANOVA (3)

Or KIN 590 Research Methods (3) and KIN 591 Research Design (3)

Or BIO 599 Biostatistics (3) W

AG 530 Research Proposal (3) (if KIN 590 and 591 is taken AG 530 is not required)

FN 533 Advanced Nutrition (3) F

Study of the experimental basis for determination of the Dietary Recommended Intakes (DRIs). Evaluation of the interrelationships between metabolism, physiology, and genetics with nutrient requirements. The role of the DRIs in preventing nutritional inadequacy and prevention of chronic disease will be examined. Written exams and oral presentations. 3 lecture/discussions. Prerequisites: FN 433, 434, and 435 or equivalent or permission of instructor.

OR

FN 520 Advanced Food Chemistry (3)

Selected advanced topics on chemical properties and changes in foods and their role in food processing and preservation. Topics include chemical and physical concepts in food preservation, biochemical changes during processing and preservation, reaction kinetics and shelflife evaluation of foods. Prerequisite: FST 420/420L or equivalent.

FN 693 Presentation of Research Proposal (1)

A public oral presentation and discussion of a written proposed research plan for the master's thesis. Required for Advancement to Candidacy. Prerequisites: AG 500, BIO 599 or KIN 590 and KIN 591 or equivalent with consent of graduate coordinator or thesis advisor. Unconditional standing required.

FN 694 Thesis Research (6)

Individual research in an area of specialization conducted as part of the preparation for writing a thesis under the direction of graduate faculty. Maximum credit 6 units. Unconditional standing required. Must have completed FN 693.

FN 696 Master's Degree Thesis (3)

Compilation of data culminating in the summarizing and reporting, in thesis form, of independent supervised research. Maximum credit 3 units. Advancement to Candidacy required.

FN 535 Recent Advances in Carbohydrate Metabolism [3] F,W,S

Recent developments and research in carbohydrate metabolism. A major nutrient class (proteins, fats, carbohydrates, vitamins and minerals) will be studied during each quarter. Each course to be subtitled identifying the nutrient class to be discussed. 3 lecture/discussions. Prerequisites: FN 433, 434, and 435 or equivalent.

FN 570 Seminar (2) W, S

Study of selected topics in nutrition and food science. Each seminar subtitled to describe its emphasis. Total credit limited to 4 units. 2 seminars. Prerequisite: graduate standing.

Electives (see list for Thesis option)(18)

Total(45)