

External Graduate Credit Courses Relevant to Food Science

- ALEC 520** Leadership Development in Organizations and Community Nonprofit (3 credit hours)
- ALEC 525** Curriculum Development in Agricultural Leadership, Education, and Communications (3 credit hours)
- ALEC 529** Research Proposal Development (3 credit hours)
- ALEC 551** Servant Leadership in Agriculture and Natural Resources (3 credit hours)
- ANSC 519** Techniques in Molecular Biology (3 credit hours)
- ANSC 525** Research Ethics for Life Science (1 credit hour)
- ANSC 531** Comparative Nutritional Biochemistry and Metabolism (4 credit hours)
- ANSC 571** Design and Analysis of Biological Research (3 credit hours)
- ANSC 621** Journal Club - Advanced Topics in Animal Health; OneHealth and AMR (1 credit hour)
- AREC 443** Food Industry Management and Marketing (3 credit hours)
- BCMB 401** Biochemistry I (4 credit hours)
- BCMB 402** Biochemistry II (4 credit hours)
- BCMB 412** Molecular Biology and Genomics (4 credit hours)
- BCMB 471** Biophysical Chemistry (3 credit hours)
- BCMB 481** Biophysical Chemistry (3 credit hours)
- BCMB 517** Physical Biochemistry (3 credit hours)
- BCMB 522** Advanced Plant Physiology I (3 credit hours)
- BCMB 523** Plant Growth and Development (3 credit hours)
- BSE 543** Instrumentation and Measurement (3 credit hours)
- BSE 576** Applied Microbiology and Bioengineering (3 credit hours)
- CEM 507** Epidemiology of Vector-Borne, Bacterial, and Viral Zoonotic Diseases (3 credit hours)
- CEM 508** Epidemiology of Parasitic, Foodborne, and Bacterial Zoonotic Diseases (3 credit hours)
- CEM 541** Cellular and Molecular Basis of Disease (3 credit hours)
- CEM 544** Cancer Cell Biology (3 credit hours)
- CEM 611** Journal Club - Emerging Infectious Disease (1 credit hour)
- CHEM 510** Analytical Spectrometry (3 credit hours)
- CHEM 513** Mass Spectrometry and Surface Characterization (3 credit hours)
- CHEM 553** Spectroscopic Characterization of Organic Compounds (3 credit hours)
- CHEM 590** Polymer Chemistry (3 credit hours)
- CHEM 594** Organic Chemistry of Polymers (3 credit hours)
- CHEM 595** Physical Chemistry of Polymers (3 credit hours)
- CHEM 596** Advanced Techniques in Polymer Synthesis and Characterization (3 credit hours)
- EEB 414** Plant Anatomy (3 credit hours)

EEB 433 Plant Ecology (3 credit hours)
EEB 560 Biometry (3 credit hours)
EPP 505 Mycology (3 credit hours)
EPP 514 Phytobacteriology (3 credit hours)
EPP 515 Physiology of Plant Disease (3 credit hours)
EPP 521 Plant Virology (3 credit hours)
EPP 530 Integrated Pest Management (3 credit hours)
EPP 622 Bioinformatics Applications (3 credit hours)
EPP 630 Advanced Integrated Pest & Pathogen Management (3 credit hours)
EPP 675 Scientific Writing and Grantsmanship (3 credit hours)
MICR 440 Virology (3 credit hours)
MICR 470 Microbial Ecology (3 credit hours)
MICR 520 Microbial Pathogenesis (3 credit hours)
MICR 540 Genomics and Bioinformatics (3 credit hours)
MICR 594 Grant Writing (3 credit hours)
MICR 602 Journal Club - Microbial Pathogenesis (1 credit hour)
MICR 679 Advanced Techniques in Nucleic Acid Sequencing (1-3 credit hours)
NUTR 511 Advances in Carbohydrate, Lipid, and Protein Metabolism (4 credit hours)
PLSC 434 Fruit and Vegetable Crops (3 credit hours)
PLSC 532 Environmental Plant Ecophysiology (3 credit hours)
PUBH 530 Biostatistics (3 credit hours)
PUBH 540 Principles of Epidemiology (3 credit hours)
PUBH 541 Student Outbreak Rapid Response Training (SORRT) (1 credit hour)
STAT 531 Survey of Statistical Methods I (3 credit hours)
STAT 532 Survey of Statistical Methods II (3 credit hours)
STAT 537 Statistics for Research I (3 credit hours)
STAT 538 Statistics for Research II (3 credit hours)
VMD 813 - Infection and Immunity I - *Immunology* (2 credit hours)
VMD 815 - Infection and Immunity III - *Virology* (2 credit hours)