

GRADUATE MAJOR CHANGE BULLETIN NO. 6

Fall 2016

The courses listed below reflect the graduate major curricular changes approved by the Catalog Subcommittee and the Graduate Studies Committee since approval of the last Graduate Major Change Bulletin. All new and revised courses are printed in their entirety under the headings Proposed and Current, respectively. The column to the far right indicates the date each change becomes effective.

| Subject | Course Number | New Revise Drop | Current | Proposed | Effective Date |
|-------------|---------------|-----------------------|---|--|----------------|
| CROP SCI | 545 | Revise | Statistical Genomics 3 Concepts and applications in modern breeding programs. Typically offered Odd Years Spring. | Statistical Genomics 3 (2-3) <u>Develop concepts and analytical skills for modern breeding by using Genome-Wide Association Study and genomic prediction in framework of mixed linear models and Bayesian approaches.</u> Recommended preparation: BIOLOGY 474; MBIOS 478. Typically offered Spring. | 5-17 |
| CS | 501 | New | --N/A-- | Cloud Systems 3 Fundamental concepts of cloud computing and their applications within commercial systems; exposure to current research topics in this area. Typically offered Fall. | 8-17 |
| ECE | 700 | New | --N/A-- | Master's Research, Thesis, and/or Examination V 1-18 May be repeated for credit. Independent research and advanced study for students working on their master's research, thesis and/or final examination. Students must have graduate degree-seeking status and should check with their major advisor/committee chair before enrolling for 700 credit. S, U grading. | 8-17 |
| KINES | 550 | New | --N/A-- | Physical Activity Epidemiology 3 Course Prerequisite: Admitted to Kinesiology MS program. Epidemiological basis for research in physical activity; review of scientific findings concerning the effects of physical activity on chronic disease and various health indices. Typically offered Spring. | 1-19 |
| KINES | 580 | New | --N/A-- | Applied Experiences in Exercise Physiology 3 Course Prerequisite: Admitted to the Kinesiology MS program. Systematic review of human physiological responses to exercise; review of current evaluative methods for cardiorespiratory function, body composition, energy expenditure, and human athletic performance. Typically offered Fall. | 8-18 |

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| MECH | 501 | New | --N/A-- | Digital Design and Manufacturing 3 Fundamentals of digital design and manufacturing; exposure to current research topics in the area. Typically offered Fall. | 8-17 |
| MECH | 523 | New | --N/A-- | Computational Fluid Dynamics and Heat Transfer 3 Partial differential equation systems, finite difference method, stability analysis, methods for wave equation, heat equation, Laplace equation, finite volume method. Typically offered Fall. | 8-17 |
| SHS | 552 | New | --N/A-- | Speech-Language Pathology and Audiology in Schools 2 Laws, policies, and ethical issues involved in providing speech-language and audiology services in public schools. Typically offered Spring. | 5-17 |