**New Course Request:**

**INTA 635.** Great Famines, War and Humanitarian Assistance. (3-0) Credit 3. Course will explore famines, their various definitions, theories of their causes and consequences; how those affected by them cope with the stages through which famines pass, and means by which they may be predicted, measured and assessed.

**NRSC 616.** Advanced Developmental Neurotoxicology. (3-0) Credit 3. Study of mechanisms of toxicity of substances potentially devastating to the developing brain and spinal cord including lead, mercury and other heavy metals, alcohol, nicotine (smoking), pesticides, flame retardants, and others. Cross-listed with: VIBS 616. Prerequisite(s): Graduate status or approval of instructor.

**SYEN 641.** Systems Engineering Methods and Frameworks. (3-0). Credit 3. Concepts, methodologies, methods and tools for discovery, definition, analysis, design, creation and sustainment of systems involving information, physical and human elements; architecture modeling methods include IDEF/UPDM; systems engineering frameworks include DoDAF/MoDAF, and Zachman; analysis tools include executable architectures to assess consistency, interoperability and performance. Prerequisite(s): Math 304 or approval of instructor.
Graduate Council Report
May 1, 2014

Course Change Request:

STAT 616: Multivariate Analysis

COURSE TITLE AND CATALOG DESCRIPTION:

FROM: Multivariate Analysis. (3-0). Credit 3. Multivariate normal distributions and multivariate generalizations of classical test criteria, Hotelling’s T2, discriminate analysis and elements of factor and canonical analysis.


PREREQUISITE(S):

FROM: STAT 161, STAT 612

TO: STAT 612, STAT 613

STAT 618: Statistical Aspects of Machine Learning and Data Mining

COURSE TITLE AND CATALOG DESCRIPTION

FROM: Statistical Aspects of Machine Learning and Data Mining. (3-0). Credit 3. Examines the statistical aspects of techniques used to examine data streams which are large scale, dynamic, and heterogeneous; examines the underlying statistical properties of classification; trees; bagging and boosting methods; neutral networks; support vector machines; cluster analysis; and independent component analysis.


PREREQUISITE(S):

FROM: STAT 610, STAT 611, and STAT 613

TO: STAT 612, STAT 613, and STAT 616
Graduate Council Report
May 1, 2014

STAT 636: Methods in Multivariate Analysis

COURSE TITLE AND CATALOG DESCRIPTION

FROM: Methods in Multivariate Analysis. (3-0). Credit 3. Multivariate extension of the chi-square and t-tests, discrimination and classification procedures; applications to diagnostic problems in biological, medical, anthropological and social research; multivariate analysis of variance, principal component and factor analysis, canonical correlations.

TO: Applied Multivariate Analysis. (3-0). Credit 3. Multivariate extension of the chi-square and t-tests, discrimination and classification procedures; applications to diagnostic problems in biological, medical, anthropological and social research; multivariate analysis of variance, principal component and factor analysis, canonical correlations.

PREREQUISITE(S):

FROM: MATH 423, STAT 653

TO: MATH 304, STAT 608

STAT 656: Applied Analytics Using SAS Enterprise Miner

PREREQUISITE(S):

FROM: STAT 657

TO: STAT 657, STAT 659
Graduate Council Report  
May 1, 2014  

Special Consideration Items:  

Systems Engineering New Master of Engineering Degree Program  
Closure of Master of Science in Public Health Degree in Health Policy and Management Program  
Closure of Masters in Public Health in Health Policy and Management Program in McAllen  
Proposal for an Executive Master of Health Administration Distance Education Program  
Distance Education Master of Engineering in Mechanical Engineering