

FACULTY AGENDA ITEM 18-16

Date: 03/05/18

Submitted by: Laura Stephenson, CAS Dean, ext 1561

SUBJECT: NEW PROGRAM-APPLIED STATISTICS

Description: Washburn's Applied Statistics track was designed using the Curriculum Guidelines for Undergraduate Programs in Statistical Science by the American Statistical Association. Our curriculum offers several statistics and computer science courses that will prepare students for graduate study or that will place students in high demand by business, industry and government seeking employees highly skilled in statistics.

Rationale: Applied or research statisticians are in high demand by business, industry and government. Our actuarial science track is focused on preparing students to become actuaries, and to pursue the Society of Actuaries (SOA) or Casualty Actuary Society (CAS) exam series to gain credentialing as associates or fellow of the respective societies. The new Applied Statistics tracks overlaps heavily with the actuarial science track, featuring three new courses in place of MA 343 Applied Statistics, MA 384 Theory of Interest, and MA 385 Actuarial Mathematics. These three new courses, MA 340 ANOVA/Design of Experiments, MA 341 Nonparametric Tests/Quality Control and MA 342 Statistical Computing have already been proposed in the CAS online proposal system. The statistical applications contained in these courses, especially the computing course, will make successful students highly marketable for any positions requiring a strong statistics background. The new program also provides a nice option for students in the actuarial science track who opt not to pursue the SOA/CAS professional exam series.

Financial Implications: Both Drs. Mosier and Shaw will teach the new courses; based on frequency of offering, we will need to find instruction for one section of MA 140 Statistics each semester. With current adjunct costs of \$1,860 per three-credit course (for those possessing a Master's degree), this amounts to \$3,720 per year.

Proposed Effective Date: Fall 2018

Request for Action: *Approval by AAC/FAC/FS/ Gen Fac, etc*

Approved by:
AAC on 3/12/2018
Faculty Senate on March 26, 2018
Gen Fac on date

Attachments Yes No