

MINUTES OF THE MEETING
OF THE UNDERGRADUATE ACADEMIC POLICIES AND PROCEDURES COMMITTEE
October 5, 2022

The Undergraduate AP&P Committee met on Wednesday, October 5, 2022 at 3:00 p.m. in the William C. Strickland Conference Room of I.G. Greer Hall.

Committee members present: Dr. Whitney Bevill, Dr. Shannon Cline, Dr. Jeff Hirst, Dr. Susan Lappan, Dr. Steve Leon, Dr. Jamie Levine, Dr. Stephen McCreery, Dr. Courtney McGahee, Dr. Jason Miller, Dr. Tanga Mohr, Dr. Lisa Poling, Dr. Manan Roy, Dr. Teressa Sumrall

Committee members excused:

Committee members not excused: Dr. Katy Strand

At 3:03 p.m. Dr. Mark Ginn called the meeting to order and welcomed the returning members. There were no new members.

Election of Chair

Tanga Mohr nominated Jeff Hirst as chair.

Vote by acclamation

Appoint a Parliamentarian Tanga Mohr was appointed Parliamentarian.

Approval of Minutes

- April 27, 2022

VOTE 1 – To approve the minutes from April 27, 2022 - PASSED

Subcommittees

- AP&P Joint Subcommittee – Jeff Hirst asked if anyone was interested in serving on the AP&P Joint Subcommittee to email him.

Announcements/FIOs

- FIO - The General Education Council meeting scheduled for September 23, 2022, was canceled due to the lack of agenda items.
- FIO - At the December 2021 UAP&P meeting, two proposals were approved, MAT 0010 was deleted and MAT 1001 was added as a new course. For clarification purposes only, effective Fall 2022 MAT 1001 can be used under the grade forgiveness policy for MAT 0010.
- FIO - Semester Offerings Changes

HIS 3630 changed from Fall to Spring
HIS 3524 changed from Spring to Fall

New Business (Total 7)

University College (1)

College of Arts and Sciences (6)

A proposal from University College (1) was approved as follows:

U_UCO_GE_2022_1

Change the course description of **UCO 1200 – First Year Seminar (3)** to read as follows:

UCO 1200 - First Year Seminar (3)

When Offered: Fall; Spring

GEN ED: First Year Seminar

The First Year Seminar (UCO 1200) provides students with an introduction to the four goals of a liberal education at Appalachian State University. Specifically, students will practice (1) thinking critically and creatively and (2) communicating effectively. In addition, students will be introduced to the learning goals of (3) making local-to-global connections and (4) understanding responsibilities of community membership. (Global Learning Opportunity course) While each First Year Seminar course engages a unique topic examined from multiple perspectives, each course also introduces students to a common set of transferable skills. As such, First Year Seminar facilitates student engagement with: fellow students, the university, the community, and the common reading; essential college-level research and information literacy skills; and the habits of rigorous study, intellectual growth, and lifelong learning. Note: The First Year Seminar requirement in General Education is waived for students who 1. graduated from high school at least one year prior to entering Appalachian, 2. are classified as transfer students by Admissions, AND 3. have earned at least 24 transferable semester credit hours at postsecondary institutions prior to entering Appalachian. Credit by exam or for military or life experience is excluded from the 24 semester credit hours. Students whose First Year Seminar requirement in General Education is waived might have three fewer semester credit hours of General Education.

Change the program description for General Education in the Undergraduate Bulletin pages.

First Year Seminar Policy for Transfer Students

The First Year Seminar requirement in General Education is waived for students who 1. graduated from high school at least one year prior to entering Appalachian, 2. are classified as transfer students by Admissions, AND 3. have earned at least 24 transferable semester credit hours at postsecondary institutions prior to entering Appalachian. Credit by exam or for military or life experience is excluded from the 24 semester credit hours. Students whose First Year Seminar requirement in General Education is waived might have three fewer semester credit hours of General Education.

VOTE 2 – To approve the proposal from University College - PASSED

The proposals from the College of Arts and Sciences (6) were approved as follows:

Department of Mathematical Sciences (6)

- U_CAS_MAT_2022_1 Change the course description of **MAT 4040 – Mathematics Capstone (1)** to read as follows:
MAT 4040 - Mathematics Capstone (1) [CAP]
When Offered: On Demand
GEN ED: Capstone Experience
MAT 4040 satisfies the general education capstone requirement for mathematics majors with concentrations other than education. Students will explore current, relevant, or advanced undergraduate topics in mathematics and the relationships of mathematics with other fields. Oral and written communication skills are emphasized.
Graded on an S/U basis.
Prerequisites: either MAT 3110 or MAT 3220, and senior standing in mathematics or permission of the instructor.
- U_CAS_MAT_2022_2 Course Addition:
MAT 3345 – Short Term Actuarial Models (3)
When Offered: Fall
This course covers short term actuarial models. The insurance coverages and key features related to short term insurances are discussed. Severity, frequency, and aggregate models used in claims and liability determination analysis for these coverages is studied. Parameter estimation for these models for a variety of data types is also studied as well as an introduction to credibility. Finally, applications of these models to pricing and reserving short-term insurances are covered.
Prerequisites: STT 3250 and STT 3850.

Schedule Type: Lecture
- U_CAS_MAT_2022_3 Revise the program of study for the Bachelor of Science in Actuarial Science (106A/52.1304). See the revised program of study at the end of the minutes.
- U_CAS_MAT_2022_4 Change the title, semester offering, and course description of **STT 3851 – Statistical Data Analysis II (3)** to read as follows:
STT 3851 – Statistical Learning I (3)
When Offered: Fall; Spring
GEN ED: Junior Writing in the Discipline (WID)
This course provides an introduction to statistical learning using real and often messy data. The course covers supervised learning techniques such as linear and constrained regression. Model selection and validation are emphasized throughout the course using cross validation. Predictive models are developed by optimizing the bias variance trade off. Students will be required to complete several data analysis projects that use professional editing tools and demonstrate reproducible statistical research.
Prerequisites: STT 3850 and RC 2001 or its equivalent.

POS Affected: 106A, 121C, 260B, 260D, 260E, 260F, 260G, 260H, 261A
- GU_CAS_MAT_2022_5 Change the course description of the dual-listed course **STT 4830/STT**

5830 – **Linear Regression Models (3)** to read as follows:

STT 4830 – Linear Regression Models (3)

When Offered: Fall

An introduction to least squares estimation in simple and multiple models. The matrix approach is used in the more general multiple regression model. Considerable attention is given to the analysis of variance, aptness of the model tests, residual analysis, the effects of multicollinearity, and variable selection procedures. Prerequisites: MAT 2240 and STT 3830. (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

[Dual-listed with STT 5830.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

U_CAS_MAT_2022_6

Change the title, semester offering, course description, and prerequisite of **STT 4840 – Regression and Time Series Forecasting (3)** to read as follows:

STT 4840 – Introduction to Time Series Analysis (3)

When Offered: Spring

Introduction to time series models applied to problems in economics, business and the social sciences. Topics include trend and seasonal regression models, seasonal and non-seasonal ARIMA models, model assumptions diagnostics, model evaluation and monitoring, smoothing techniques, dealing with non-stationarity, and ARCH and GARCH models. Theoretical results will be explored with a modern statistical programming language.

Prerequisites: STT 4830 or permission of the instructor.

POS Affected: 106A, 260B, 260D, 260E, 260F, 260G, 260H, 261A

VOTE 3 To approve the proposals from the Department of Mathematical Sciences - PASSED

Old Business

Mark Ginn reported that the General Education Task Force submitted a report to the Provost. The process is ongoing.

Other

Adjournment

Vote by acclamation to adjourn.

The recommendations from the October 5, 2022 Undergraduate Academic Policies and Procedures Committee meeting are approved.

Heather Norris

10/21/2022

Heather Hulburt Norris
Provost and Executive Vice Chancellor

Date

Actuarial Science, BS

Program Code: 106A

CIP Code: 52.1304

General Education Curriculum (44 Hours)

General Education Requirements

Math 1110 will count toward Quantitative Literacy Gen Ed requirement. Some general education requirements may be double-counted in the major with departmental approval.

Please see your advisor for information.

Major Requirements (65 Hours)

(Not including 4 hours counted in General Education Curriculum, above)

2.0 major GPA is required for graduation. Major GPA calculation will include all courses taken in the major department, plus any other courses under Major Requirements. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian. Course requirements for the Bachelor of Science degree in actuarial science are as follows (with program subject to the approval of the advisory committee). An acceptable program consists of at least 69 semester hours but no more than 80, with a minimum of 33 hours in the Department of Mathematical Sciences.

Mathematics (~~39~~42 Hours)

MAT 1110 - Calculus With Analytic Geometry I (4)

MAT 1120 - Calculus With Analytic Geometry II (4)

MAT 2130 - Calculus With Analytic Geometry III (4)

MAT 2240 - Introduction to Linear Algebra (3)

MAT 3330 - Financial Mathematics (4)

MAT 3340 - Actuarial Models (3)

[MAT 3345 – Short Term Actuarial Models \(3\)](#)

MAT 4330 - Senior Seminar in Actuarial Science (3) [CAP]

STT 3250 - Fundamentals of Probability (4)

STT 3850 - Statistical Data Analysis I (4)

STT 3851 - Statistical Data Analysis II (3) [WID]

STT 4880 - Mathematical Statistics (3)

Business (~~27~~24 Hours)

ACC 2100 - Principles of Accounting I (3)

ECO 2030 - Principles of Microeconomics (3) [GenEd: SS]

ECO 2040 - Principles of Macroeconomics (3) [GenEd: SS]

FIN 3100 - Principles of Risk Management and Insurance (3)

FIN 3680 - Introduction to Finance (3)

FIN 3690 - Financial Management (3)

FIN 3890 - Survey of Investments (3)

FIN 4770 - Derivatives and Financial Risk Management (3)

~~LAW 2150 - Legal Environment of Business (3)~~

Major Electives (3 Hours)

Choose at least 3 hours from the courses listed below.

[LAW 2150 - Legal Environment of Business \(3\)](#)

MAT 2110 - Techniques of Proof (4)

MAT 3130 - Introduction to Differential Equations (3)

[MAT 3220 - Introduction to Real Analysis I \(3\) \[WID\]](#)

[MAT 3251 - Problems in Probability \(2\)](#)

MAT 3310 - Discrete and Continuous Mathematical Models (3)

[MAT 3331 - Problems in Financial Mathematics \(2\)](#)

MAT 3350 - Introduction to Mathematical Biology (3)

~~MAT 3220 - Introduction to Real Analysis I (3) [WID]~~

MAT 4340 - Introduction to Operations Research (3)

MAT 4350 - Actuarial Models II (3)

CS 1440 - Computer Science I (4)

STT 4840 - Regression and Time Series Forecasting (3)

Minor (Optional)

Electives (11 Hours)

Taken to total 120 hours for this degree

Total Required (120 Hours)
