Actuarial Exam P/1 Preparation.
CRN# 22624

January 7, 2019 – May 3, 2019 (1 credit hours)

Instructor:	Jie Liu	**Office:**	SNOW143
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Phone:	435-652-7983		Or by appointment

Course Prerequisites
C or better, can be concurrently enrolled, in Math 3400. Students are recommended to take this class at the same semester as Math 3400.

Course Description
All mathematics classes at Dixie State University support the general education goal of the college, and will:
1. Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
2. Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
3. Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
4. Provide students with real-life applications that use a variety of mathematical functions.

Objectives
This is a test preparation course helping students to get use to the setting of Actuarial Exam P/1 using sample exam problems. Students should already have (or learn at the same time through Math3400) the knowledge of basic concepts of the following learning objectives. Students will be guided to work with practice exercises related to those learning objectives. (Please refer to attached "SOA January 2019 Syllabus with Learning Objectives/Outcomes and Readings" for more details)
1. Understand basic properties concepts.
2. Understand key concepts concerning discrete and continuous univariate random variables (including binomial, negative binomial, geometric, hypergeometric, Poisson, uniform, exponential, gamma, normal and mixed) and their applications.
3. Understand key concepts concerning multivariate random variables (including the bivariate normal) and their applications.
4. Pass the Actuarial Probability exam (SOA Exam P/1)
   https://www.soa.org/education/exam-req/edu-exam-p-detail.aspx

Canvas
Important course information, announcements, assignments and discussions will be delivered through Canvas. Please set up with Canvas notification through your Dmail and/or login your canvas course frequently to keep up with the course.

Important dates/deadlines
https://academics.dixie.edu/academic-calendar/

Academic Integrity
http://catalog.dixie.edu/codeofstudentrightsresponsibilities/

Resources
Library - https://library.dixie.edu/
Writing Center - https://writingcenter.dixie.edu/
Testing Center - https://testing.dixie.edu/
Tutoring Center - https://tutoring.dixie.edu/

Disability Resource Center (DRC)
If you are a student with a medical, psychological, or learning disability or think you might have a disability and would like accommodations, contact the Disability Resource Center (652-7516) in the North Plaza. The Disability Resource Center (http://dixie.edu/drcenter/) will determine eligibility of the student requesting special services and determine the appropriate accommodations related to their disability.

Course Work
The student's final grade will be determined by her/his performance on participation, quizzes and final exam.
- **Participation (10%)**: Students get participation points by helping each other through the Canvas discussion board by posting questions, answering questions and sharing resources/learning strategies.
- **Quizzes (70%)**: The class will be structured as modules following the learning objectives. A set of sample problems with solutions related to different learning objectives will be assigned for students to review and work with in each module. Quizzes with similar questions will be given after each or couple modules depending on the length of the modules. All the questions will be following the same style as the real Actuarial exams with multiple choice questions. Quizzes has to be taken through DSU testing center before the due dates**.**
- **Final exam (20%):** A sample test for Actuarial Exam p/1

Grading:
Option 1: Participation 10%, Quizzes 70% and Final Exam 30%
Grades will be assigned as follows: **A** (94-100%), **A-** (90-93%), **B+** (87-89%), **B** (83-86%), **B-**(80-82%), **C+**(75-79%), **C** (70-74%), **C-**(65-69%), **D+**(60-64%), **D**(55-59%), **D-**(50-54%), **F**(O-49%)
or
The scale of grades for Actuarial Exam P/1 grades runs from 0 to 10. Passing grades are 6 through 10. If you pass the Actuarial Exam p/1 in 2019, your grade for this class may be moved up a grade level.

Exam P, Probability, Schedule for Computer-Based Testing (CBT) 2019
(https://www.soa.org/Education/Exam-Req/Exam-Day-Info/edu-2019-cbt-test-schedule.aspx)

2019	Jan.	March	May	July	Sept.	Nov.
Registration Deadline	Dec. 4, 2018	Feb. 5	April 9	June 4	Aug. 6	Oct. 8
CBT Dates	Jan. 11- 22	March 15 - 26	May 17 - 28	July 16 - 27	Sept. 12 - 23	Nov. 9 - 20