

## Salisbury University Department of Mathematical Sciences

### MATH 105 : Liberal Arts Mathematics: Moneymathics, where Money and Mathematics Meet

#### Syllabus (Tentative)

**Description:** Study of the beauty and structure of mathematics, with emphasis on quantitative and analytical reasoning skills. Various areas of mathematics or its applications will be used as a vehicle for this study. Designed for students whose major area of study does not have specific requirements in mathematics. 4 Hours Credit: Meets 4 hours per week. Meets General Education IVB or IVC.

**Prerequisites:** Three years of high school mathematics including geometry or college-level intermediate algebra.

**Intended Audience:** Liberal Arts Majors, particularly those interested how mathematics of investing, loans, and pensions work.

**Objective:** To introduce students to basic notions of interest theory, savings and loans. Students will learn how to calculate loan payments based on factors such as interest rate, length of the loan, and payment frequency.

**Textbooks:** Moneymathics, where Money and Mathematics meet by B.L.Dillard, ISBN 978-1-5249-4982-2

**Technology:** Excel, BAII Plus calculator is required.

Topic	Weeks
Algebra review	1
Simple and Compound Interest Models	1
Annuities	2
Loans	3
Annuities revisited: Saving for Retirement	2
Bonds	2
Budgeting and Taxation	2
Quizzes & Exams	1
<b>Total</b>	<b>14</b>

#### Evaluation

Quizzes	15%
Projects	15%
Exams	45%
Final Exam	25%

- Free tutoring is available for this course in the Spring and Fall semesters.
- Clear descriptions of thought processes, evidence of critical thinking, and effective communication must be demonstrated in written work.
- **Writing Across the Curriculum:** Students will be expected to communicate mathematics and mathematical ideas effectively in speech and writing. At the University Writing Center, trained consultants are ready to help you at any stage of the writing process. In addition to the important writing instruction that occurs in the classroom and during professors' office hours, the Center offers another site for learning about writing. **All students are encouraged to make use of these important services.**
- **NOTE:** Once a student has received credit, including transfer credit, for a course, credit may not be received for any course with material that is equivalent to it or is a prerequisite for it.