



<b>GRADO:</b>	Management and Business Administration
<b>ASIGNATURA:</b>	Financial Mathematics
<b>CURSO:</b>	4
<b>SEMESTRE</b>	First

<b>OBJETIVOS:</b>	<i>The goal of the course is to provide an understanding of the fundamental concepts of financial mathematics. Those concepts are applied in calculating present and accumulated values for streams of cash flows as a basis for analyzing savings plans, loans and bonds. The last unit introduces actuarial mathematics and its life insurance applications.</i>
<b>RESUMEN DE CONTENIDOS:</b>	Unit 1. ANNUITIES 1.1 Annuities: concept and classification 1.2 Level payment annuities 1.3 Varying annuities 1.4 Annuities payable at a different frequency than interest is convertible Unit 2. SAVINGS PLANS 2.1 General features of savings plans 2.2 Savings methods 2.3 Private pensions Unit 3. LOANS (I) 3.1 General features of loans 3.2 Repayment methods 3.3 Adjustable rate loans Unit 4. LOANS (II) 4.1 Annual percentage rate (APR). TAE 4.3 Present value, usufruct and bare-ownership 4.3 Leasing. 4.4 Reverse mortgages Unit 5. BONDS 5.1 Bonds: concept and classification 5.2 Amortization methods 5.3 Taxes and yields 5.4 Duration and convexity Unit 6. INTRODUCTION TO ACTUARIAL MATHEMATICS 6.1 Survival distributions and life tables 6.2 Life annuities 6.3 Insurances payable at death 6.4 Premiums ANNEX: Current and credit accounts
<b>CONTEXTUALIZACIÓN EN EL GRADO:</b>	<i>The course provides a basis for other courses in the field of finance and accounting.</i>