

UNLV ★B.S. Mathematics, Actuarial Science Concentration (MATACT) 2012-2014 Catalog

★UNLV UNIVERSITY AND COLLEGE OF SCIENCES GRADUATION REQUIREMENTS★

120 total credits:	The minimum number of semester credits required for a bachelor's degree for a student graduating under the regulations of the 2012 - 2014 Undergraduate Catalog is 120.	
Last 30 credits @ NSHE school:	A candidate for the baccalaureate degree must complete the last 30 UNLV semester credits in uninterrupted resident credit as a declared major in the degree-granting college. A student must declare a major prior to enrolling in the last 30 UNLV resident credits. (Special examination, physical education activity courses, or correspondence credits are exempted.)	
½ credits from a four-year school:	At least half of the total credits required for a baccalaureate degree at the institution must be earned at a four-year institution.	
Graduation GPA 2.0:	In order to graduate, an undergraduate student shall have a minimum cumulative grade point average of 2.00 for the total of all college-level credit attempted at the University of Nevada, Las Vegas (UNLV GPA). College and department GPA requirements must also be met. The College of Sciences requires a cumulative GPA of at least 2.00 for all courses in the major field.	
40 upper division credits (300-400):	The College of Sciences requires that of the total 120 credits require for the degree, at least 40 credits must be in courses numbered 300 or higher. These include all 300 and 400 level classes taken at UNLV, including those required for the major.	
★UNLV GENERAL EDUCATION CURRICULUM REQUIREMENTS★		30-45 credits
General education curriculum requirements for students with majors in the College of Sciences. With the exception of the Multicultural/International course requirement, UNLV general education core courses cannot be duplicated across general education core curriculum requirements.		12-21 credits
FIRST YEAR SEMINAR (FYS) REQUIREMENT: Any first year seminar class; (required for First-time Freshmen or change of majors with less than 30 credits, or any student that attended community college high school); must be completed by the end of the freshman year; SCI-101 strongly recommended for science and math majors.		2-3 credits
SECOND YEAR SEMINAR (SYS) REQUIREMENT: Any second year seminar class (currently ENG 231 or 232); required of all Sophomores, including transfer students and change of majors with less than 60 credits.		3 credits
ENGLISH COMPOSITION REQUIREMENT: ENG 101 or ENG 101W or ENG 113 or [ENG 101E+101F], and ENG 102, ENG 114 or HON – see Advisement Report in MyUNLV. Must be completed by the end of the sophomore year.		3-9 credits
CONSTITUTIONS REQUIREMENT: Satisfactory completion of courses examining the constitutions of both the United States and the State of Nevada. <i>Transfer</i> students who have already successfully completed a satisfactory 3 semester-credit U.S. Constitutions course from a regionally-accredited institution must successfully complete a satisfactory Nevada Constitutions course (PSC 100 recommended). See Advisement Report in MyUNLV.		4-6 credits
MATHEMATICS REQUIREMENT: The General Education Mathematics requirement will be filled by the math course(s) required in the student's major. Must be completed by the end of the sophomore year. Please see the catalog Admissions Section for current ACT/SAT placement test scores that will guide placement in the appropriate MATH class. Students interested in alternate placement testing should contact the Department of Mathematical Sciences at 702-895-3567.		shown in major below
DISTRIBUTION REQUIREMENTS:		18 credits
HUMANITIES AND FINE ARTS Two courses (three credits each) from two different humanities areas. See Advisement Report in MyUNLV for course choices. One semester of foreign language required for the major will simultaneously fill one of the Humanities requirement. One introductory or appreciation course (three credits) from a fine arts area. See Advisement Report in MyUNLV for course choices.		6 credits 3 credits
LIFE AND PHYSICAL SCIENCES AND ANALYTICAL THINKING: Science and Mathematics majors are exempt from this requirement.		N/A
SOCIAL SCIENCES One course each from three different fields for a total of nine credits. Courses used to satisfy the Constitutions requirement may not be used to meet Social Sciences distribution requirements. Note: AAS and ANTH constitute one field. See Advisement Report in MyUNLV for course choices.		9 credits
MULTICULTURAL AND INTERNATIONAL REQUIREMENTS: A minimum of six credits to be composed of a three-credit multicultural requirement and a three-credit international requirement <u>that may simultaneously fulfill other general education core requirements</u> depending on course choices. A single course may not simultaneously meet the multicultural and international requirements. See Advisement Report in MyUNLV for course choices. One semester of foreign language required for the major will simultaneously fill the International requirement.		6 credits unless simultaneously filling Hum, FA or SocSCI
★MATHEMATICS ACTUARIAL SCIENCE DEGREE REQUIREMENTS★		75-87 credits
MATHEMATICS ACTUARIAL SCIENCE & STATISTICS REQUIREMENTS: GRADES ≥C REQUIRED IN EACH MATH OR STAT USED TO SATISFY DEGREE REQUIREMENTS FOR A MAJOR IN MATH. AT MOST, SIX (6) CREDITS OF INDEPENDENT STUDY MAY BE USED IN ANY UNDERGRADUATE DEGREE PROGRAM IN MATH. A STUDENT MAY NOT MAJOR OR MINOR IN DUAL AREAS OF THE MATHEMATICAL SCIENCES.		54-72 credits
MATH181 Calculus I [Prerequisite ≥ C in MATH 127 or 128]		4 credits
MATH 182 Calculus II		4 credits
MATH 283 Intermediate Calculus		4 credits
MATH 320 Mathematics of Interest		3 credits
EITHER MATH 330 Linear Algebra OR MATH 365 Computational Linear Algebra		3 credits
MATH 427 Differential Equations I		3 credits
MATH 471 Actuarial Mathematics I		3 credits
MATH 473 Risk Theory		3 credits
EITHER MATH 463 Advanced Matrix Theory and Applications OR MATH 466 Numerical Methods I		3 credits
STAT 411 Statistical Methods I		3 credits
STAT 412 Statistical Methods II		3 credits
STAT 467 Introduction to Mathematical Statistics I		3 credits
STAT 488 Senior Research Project in Statistics		3 credits
Choose 12 additional credits from 400-level MATH or STAT courses		12 credits
The program of study must include two (2) one-year 400-level MATH or STAT <i>sequences</i> (see Degree Audit in MyUNLV for sequence choices); courses from the math core and the math 12-credit requirement may be used toward a sequence). <i>Every student will be encouraged to take the GRE Advanced Test in Mathematics</i>		0-12 credits
FOREIGN LANGUAGE:	Students are required to include a two-semester college-level foreign language course in their course of study or have two years of any foreign language at the high school level.	0-6 credits
ECONOMICS & FINANCE:	ECON 102 Principles of Microeconomics	3 credits
	ECON 103 Principles of Macroeconomics	3 credits
	FIN 321 Corporate Risk Management	3 credits
SCIENCES:	Choose 9 credits from the following: BIOL courses numbered 189 and above; CHEM courses numbered 121 and above except CHEM 201 & 203; GEOL courses numbered 220 and above; GEOG courses numbered 300 and above; PHYS courses numbered 180 and above; CEE courses numbered 241 and above; CS courses numbered 218 and above; all CpE courses; EE courses numbered 220 and above; all ME courses.	9 credits
COMPUTER SCIENCE: OR	Choose one of the following:	3 credits
	CS 117 Programming for Scientists and Engineers CS 135 Computer Science I	