



BS Physics in 4 Years w/Computational Physics Concentration 2016-2017

Department of Physics & Astronomy

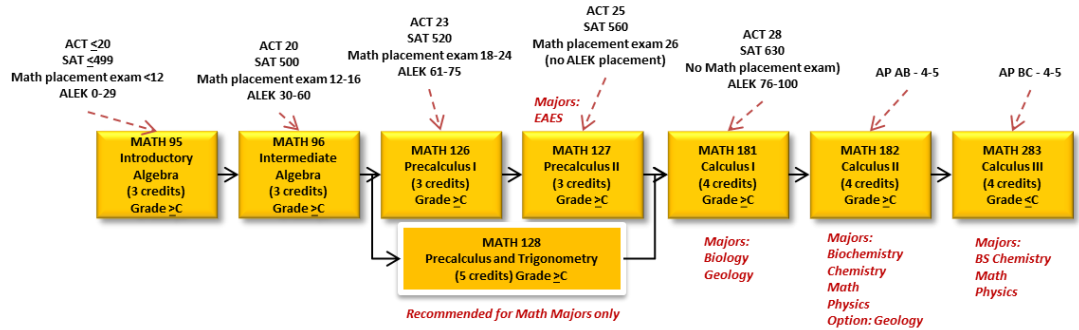
Catalog Year: Fall 2016 - 2017 ♦ Catalog Expires: Summer 2027 ♦ Graduation: Spring 2020

	First Semester		Second Semester	
	<i>Course</i>	<i>Credits</i>	<i>Course</i>	
1st Year	→ ENG 101 English Composition I	3	→ ENG 102 Composition II	3
	→ MATH181 Calculus I*	4	→ MATH 182 Calculus II	4
	Choose First Year Seminar (SCI-101 recommended)	2	→ CHEM122/122L General Chemistry II	4
	→ CHEM121/121L General Chemistry	4	→ HIST 100 or PSC 101 US NV Constitution	4
	Choose Social Science Field 1**	3		
	Total First Semester:	16	Total Second Semester:	15
	Third Semester		Fourth Semester	
	<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
2nd Year	→ PHYS 180 Engineering Physics I	3	→ PHYS 181 Engineering Physics II	3
	→ PHYS 180L Engineering Physics I lab	1	→ PHYS 181 Engineering Physics II lab	1
	→ MATH 283 Calculus III	4	→ PHYS 182 Engineering Physics III	3
	Choose Second Year Seminar	3	→ PHYS 182L Engineering Physics III lab	1
	→ CS 135 Computer Science I	3	Choose Humanities Field 2**	3
	Total Third Semester:	14	Total Third Semester:	14
	Fifth Semester		Sixth Semester	
	<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
3rd Year	→ PHYS 300 Introduction to Physics & Scient Computing	3	→ PHYS 404 Computational Techniques in Physics	3
	→ PHYS 411 Modern Physics I	3	→ PHYS 421 Electricity & Magnetism	3
	→ PHYS 413 Intermediate Laboratory I	3	→ PHYS 423 Mechanics I	3
	Science, Computer Science or Engineering course	3	Choose Social Science Field 3**	3
	Choose Social Science Field 2**	3	Choose Humanities Field 1**	3
	Total Fifth Semester:	15	Total Sixth Semester:	15
	Seventh Semester		Eighth Semester	
	<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
4th Year	→ PHYS 467 Thermodynamics	3	→ MATH 365 Computational Linear Algebra	3
	→ PHYS 481 Quantum Mechanics I	3	Science, Computer Science or Engineering	11
	Science, Computer Science or Engineering	3	→ PHYS 493 Special Problems	1
	Electives	4		
	Choose Fine Arts**	3		
	Total Seventh Semester:	16	Total Eighth Semester:	15
Notes				
→ course has a prerequisite--see reverse side for course sequences or go to the UNLV online catalog at http://catalog.unlv.edu/				
Notes	ΔA minimum of six (6) credits are required, to be composed of a three-credit multicultural course and a three-credit international course that may simultaneously fulfill other general education requirements. A single course may not simultaneously meet both the multicultural and international requirements. Discuss with your Academic Advisor!			
	The minimum number of semester credits required for a bachelor's degree for a student graduating under the regulations of the 2016 - 2017 Undergraduate Catalog is 120. At least half of the credits required for a baccalaureate degree at the institution must be earned at a four-year institution.			
	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 their last 30 UNLV resident credits.			
In order to graduate, an undergraduate student must 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.				

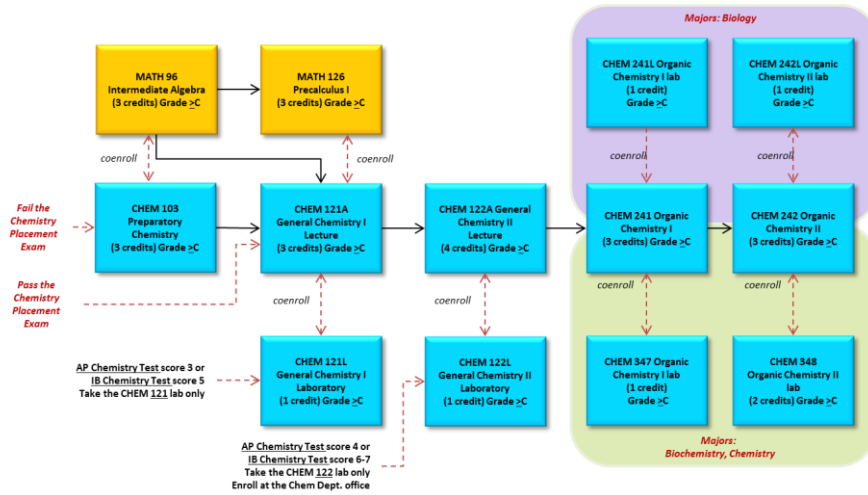


LOWER DIVISION PREREQUISITE COURSE SEQUENCES FOR BS PHYSICS/COMPUTATIONAL MAJORS

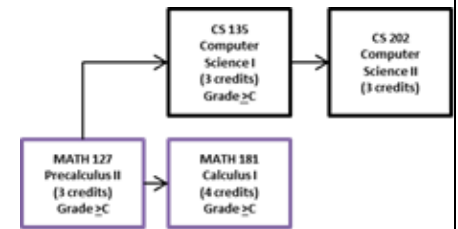
Lower Division Math Sequence



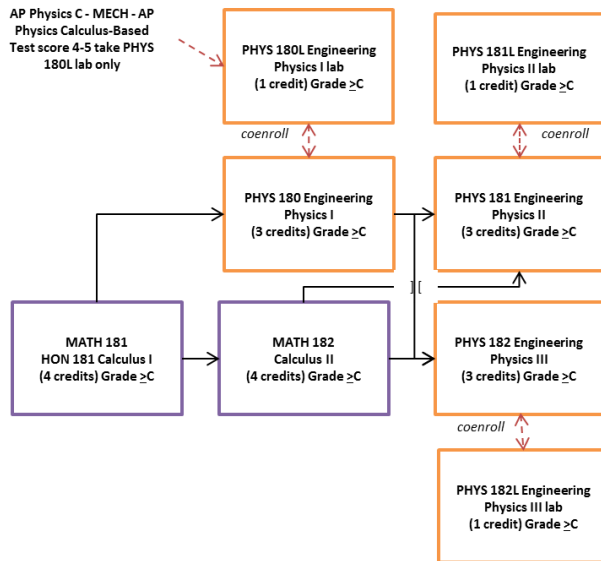
Lower Division Chemistry Sequence



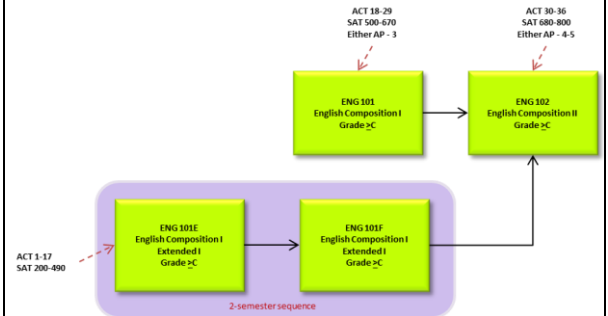
Lower Division Computer Science Sequence



Lower Division Engineering Physics Sequence



Lower Division English Sequence



Read the UNLV Catalog for Upper Division Course Prerequisites <http://catalog.unlv.edu/>