



# BS Physics in 4 Years 2016-2017

## Department of Physics & Astronomy

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

	First Semester		Second Semester	
	Course	Credits	Course	Credits
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 Consitution	4
	Choose Social Science Field 1	3		
	<b>Total First Semester:</b>	<b>16</b>	<b>Total Second Semester:</b>	<b>15</b>
	Third Semester		Fourth Semester	
	Course	Credits	Course	Credits
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
	Science, mathematics, computer science, or engineering courses any level	4	Choose Humanities Field 2	3
			Science, mathematics, computer science, or engineering courses any level	3
	<b>Total Third Semester:</b>	<b>15</b>	<b>Total Third Semester:</b>	<b>14</b>
	Fifth Semester		Sixth Semester	
	Course	Credits	Course	Credits
3rd Year	→ PHYS 411 Modern Physics I	3	→ PHYS 413 Intermediate Lab I	3
	→ PHYS 421 Electricity & Magnetism I	3	→ PHYS 422 Electricity & Magnetism II	3
	→ PHYS 423 Mechanics I	3	→ PHYS 424 Mechanics II	3
	Science, mathematics, computer science, or engineering courses any level	3	Choose Social Science Field 3	3
	Choose Social Science Field 2	3	Choose Humanities Field 1	3
	<b>Total Fifth Semester:</b>	<b>15</b>	<b>Total Sixth Semester:</b>	<b>15</b>
	Seventh Semester		Eighth Semester	
	Course	Credits	Course	Credits
4th Year	→ PHYS 414 Intermediate Lab II	3	→ PHYS 493 Special Problems (1-3 credits)	1
	→ PHYS 467 Thermodynamics	3	→ Upper division Physics Courses 300-400	3
	→ PHYS 481 Quantum Mechanics I	3	Science, mathematics, computer science, or engineering courses upper division	3
	→ Upper division Physics Courses 300-400	3	Science, mathematics, computer science, or engineering courses upper division	3
	Choose Fine Arts	3	General Electives 100-400 level	5
	<b>Total Seventh Semester:</b>	<b>15</b>	<b>Total Eighth Semester:</b>	<b>15</b>

### Notes

→ course has a prerequisite--see reverse side for course sequences or go to the UNLV online catalog at <http://catalog.unlv.edu/>

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!

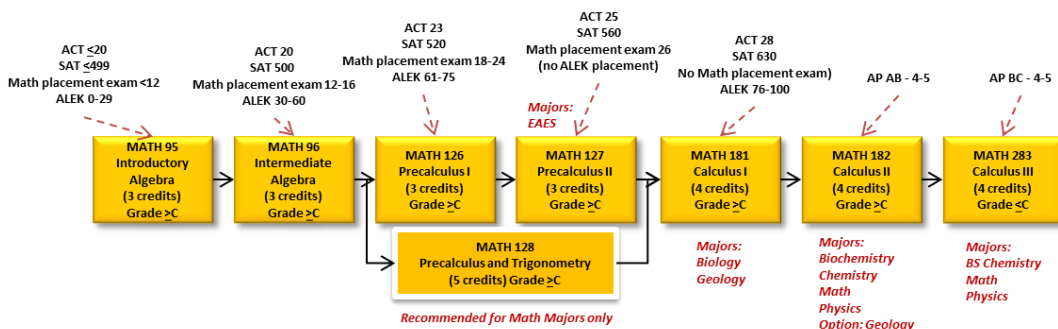
The minimum number of semester credits required for a bachelor's degree for a student graduating under the regulations of the 2016 - 2017 Undergraduate Catalog is 120. At least half of the credits required for a baccalaureate degree at the institution must be earned at a four-year institution.

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.

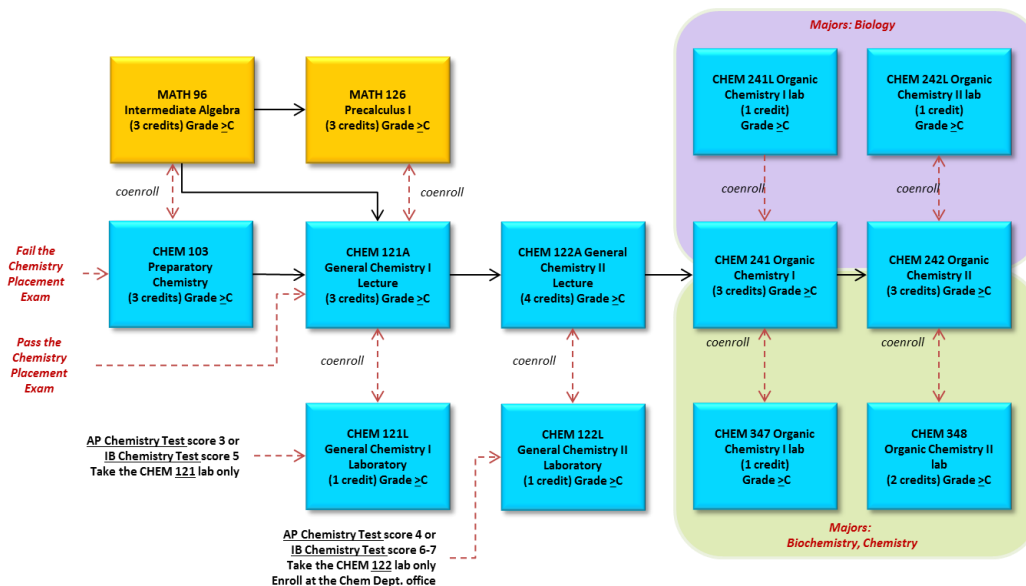
In order to graduate, an undergraduate student must have a minimum cumulative grade point average of 2.00 for the total of all college-level credit attempted at the University of Nevada, Las Vegas (UNLV GPA). College and department GPA requirements must also be met.

LOWER DIVISION PREREQUISITE COURSE SEQUENCES FOR BS PHYSICS & BS PHYSICS/APPLIED MAJORS

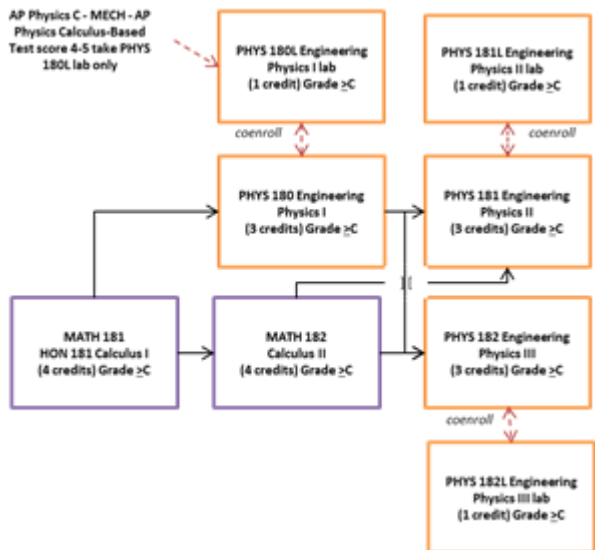
Lower Division Math Sequence



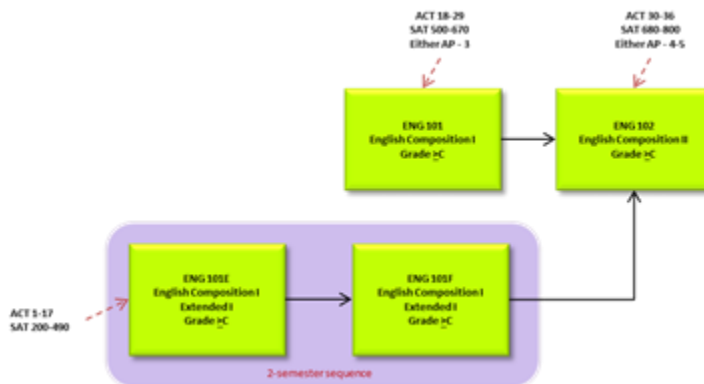
Lower Division Chemistry Sequence



Lower Division Engineering Physics Sequence



Lower Division English Sequence



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