UNLV College of SCIENCES

BS Physics in 4 Years
w/Computational Physics Concentration 2017-2018

Department of Physics & Astronomy

Catalog Year: Fall 2017-2018 ♦ Catalog Expires: Summer 2028 ♦ Graduation: Spring 2021

1st Year

First Semester		Second Semester	
Course	*Credits*	*Course*	*Credits*
→ *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	→ *Choose Humanities Field 1*	3
→ *Choose Fine Arts*	3	*HIST 100 or PSC 101 US NV Consitution*	*4*
*Choose Social Science Field 1***	*3*		
Total First Semester:	**15**	**Total Second Semester:**	**14**

2nd Year

Third Semester		Fourth Semester	
Course	*Credits*	*Course*	*Credits*
→ PHYS 180 Engineering Physics I	3	→ PHYS 181 Enginering 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*
		→ CS 202 Computer Science II	3
Total Third Semester:	**14**	**Total Third Semester:**	**14**

3rd Year

Fifth Semester		Sixth Semester	
Course	*Credits*	*Course*	*Credits*
→ 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, Math, Computer Science or Engineer. 100-400	4	*Choose Social Science Field 3*	*3*
Choose Social Science Field 2	*3*	Upper division General Electives 300-400	*3*
Total Fifth Semester:	**16**	**Total Sixth Semester:**	**15**

4th Year

Seventh Semester		Eighth Semester	
Course	*Credits*	*Course*	*Credits*
→ PHYS 467 Thermodynamics	3	→ MATH 365 Computational Linear Algebra	3
→ PHYS 481 Quantum Mechanics I	3	PHYS 493 Special Problems	3
Science, Math, Computer Science or Engineer. 100-400	3	→ Science, Math, Computer Science or Engineer. 100-400	3
Upper division General Electives 300-400	4	Science, Math, Computer Science or Engineer. 100-400	3
Upper division General Electives 300-400	*3*	Science, Math, Computer Science or Engineer. 100-400	*4*
Total Seventh Semester:	**16**	**Total Eighth Semester:**	**16**

Notes

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.

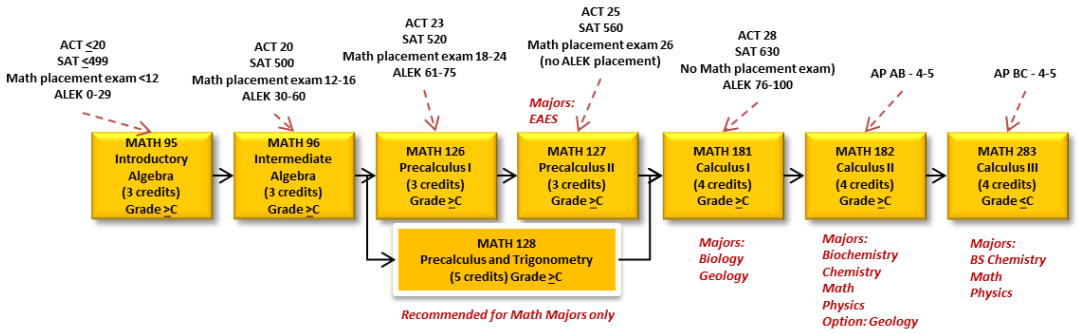
UNLV ACADEMIC ADVISING
Collaborate to Graduate

College of Sciences Advising Center: MPE A-130; 702-895-2077; www.unlv.edu/sciences/advising; sci.advising@unlv.edu

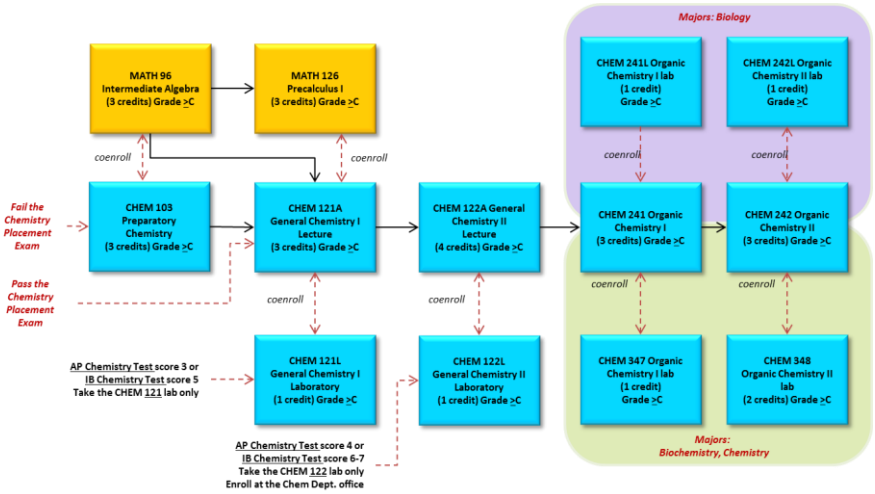
Department of Physics & Astronomy: BPB-209; (702) 895-3563; www.physics.unlv.edu; admin@physics.unlv.edu

LOWER DIVISION PREREQUISITE COURSE SEQUENCES FOR BS PHYSICS/COMPUTATIONAL MAJORS

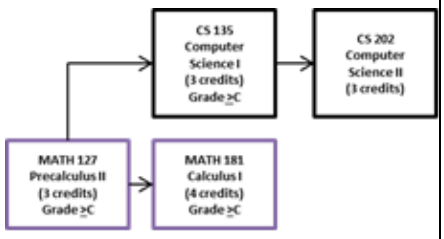
Lower Division Math Sequence



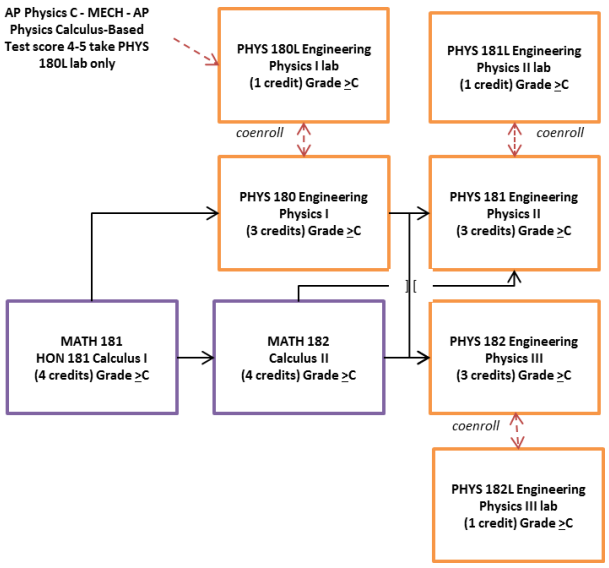
Lower Division Chemistry Sequence



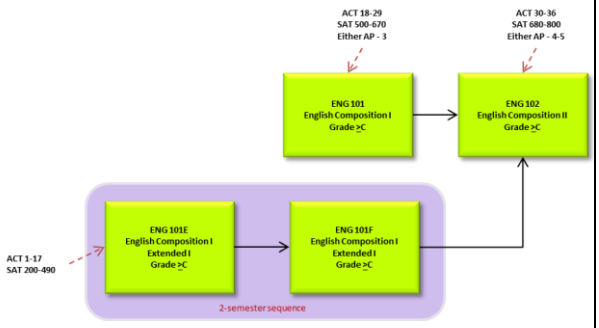
Lower Division Computer Science Sequence



Lower Division Engineering Physics Sequence



Lower Division English Sequence



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