PHYSICS - MASTER OF SCIENCE

New Mexico State University master's accelerated program provides **the opportunity for academically qualified undergraduate students** to begin working on a master's degree **during their junior and senior years** while completing a bachelor's degree. Typically, a bachelor's degree requires four years to complete, and a master's degree requires an additional two years. The master's accelerated programs allow students the opportunity to complete a graduate program in an accelerated manner.

Students enrolled in the master's accelerated program are allowed to apply up to nine credits of their undergraduate courses numbered 450 and above and up to twelve credits total towards the completion of a master's degree. This program provides students with an opportunity to complete a master's degree in one year (and perhaps one summer term to write and defend a master's thesis). Students wishing to enroll in the master's accelerated program should talk to their Physics or Engineering Physics faculty advisor and develop a course plan in consultation with the advisor.

MAP Requirements

- The Graduate School allows qualified junior or senior students to substitute its graduate courses for required or elective courses in an undergraduate degree program and then subsequently count those same course as fulfilling graduate requirements in a related graduate program.
- Undergraduate students may apply for acceptance to the accelerated master's program after completing 60 semester hours of undergraduate coursework of which a minimum of 25 semester credit hours must be completed at NMSU.
- The grade point average must be at a minimum of 2.75.
- Students must receive a grade of B or higher in this coursework to be counted for graduate credit. If a grade of B- or lower is earned, it will not count toward the graduate degree.

Accepted MAP Courses

The following courses are accepted for use in the MAP program, any other courses may be considered after a consultation with a Physics or Engineering Physics faculty advisor. An exception will need to be made to the degree audit in order for the additional course(s) to be included on both the Undergraduate and Graduate degrees.

Prefix	Title	Credits
PHYS 451	Intermediate Mechanics I	3
PHYS 454	Intermediate Modern Physics I	3
PHYS 455	Intermediate Modern Physics II	3
PHYS 461	Intermediate Electricity and Magnetism I	3
PHYS 462	Intermediate Electricity and Magnetism II	3
PHYS 480	Thermodynamics	3
PHYS 488	Introduction to Condensed Matter Physics	3
PHYS 450	Selected Topics	1-3
or PHYS 520	Selected Topics	
PHYS 468	Intermediate X-ray Diffraction	3
or PHYS 568	Elements of X-ray Diffraction	
PHYS 471	Modern Experimental Optics	3
or PHYS 571	Advanced Experimental Optics	
PHYS 475	Advanced Laboratory Practices for Materials	3
or PHYS 575	Advanced Physics Laboratory	
PHYS 476	Computational Physics	3
or PHYS 576	Advanced Computational Physics I	
PHYS 489	Introduction to Modern Materials	3
or PHYS 589	Modern Materials	
PHYS 493	Experimental Nuclear Physics	3
or PHYS 593	Advanced Experimental Nuclear Physics	
PHYS 495	Mathematical Methods of Physics I	3
or PHYS 511	Mathematical Methods of Physics I	