

# PHYSICS (SPACE PHYSICS) - MASTER OF SCIENCE

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## Requirements

For the master's degree with a concentration in Space Physics, students must successfully complete the following physics core and specialized courses:

Prefix	Title	Credits
<b>Physics Core</b>		
PHYS 551	Classical Mechanics	3
PHYS 593	Advanced Experimental Nuclear Physics	3
PHYS 511 or PHYS 495	Mathematical Methods of Physics I	3
PHYS 597	Space Plasma Physics	3
PHYS 554 or PHYS 454	Quantum Mechanics I	3
PHYS 561 or PHYS 461	Electromagnetic Theory I	3
PHYS 584 or PHYS 480	Statistical Mechanics	3
<b>Specialization Electives</b>		
Select a minimum of three from the following:		9
ASTR 535	Observational Techniques	
ASTR 620	Planetary Processes	
ASTR 698	Special Topics.	
E E 460	Space System Mission Design and Analysis	
M E 533	Numerical Methods for Fluid Mechanics and Heat Transfer	
PHYS 576 or PHYS 476	Advanced Computational Physics I	
PHYS 591	Advanced High-Energy Physics I	
<b>Total Credits</b>		<b>30</b>