

PHYSICAL SCIENCE (PS)

PS 500 Astronomy	3 Credit hours		PS 649 Electronics for Teachers	3-5 Credit hours
A study of the stars and planets and galaxies, planetary motion, cosmology and cosmography. Designed to assist teachers and others to develop an interest in astronomy.			A course in basic theory of electronics for teachers. Lecture and laboratory.	
Pre-req: PS 500L (may be taken concurrently).			Grade Mode: Normal Grading Mode	
Concurrent PR: PS 500L			PS 650 Special Topics	1-4 Credit hours
Co-req: PS 500L			Advanced special topics to provide additional group research and classroom/laboratory opportunities.	
Grade Mode: Normal Grading Mode			Grade Mode: Normal Grading Mode	
PS 500L Astronomy Laboratory	1 Credit hour		PS 651 Special Topics	1-4 Credit hours
Fundamental observations in astronomy and their interpretation through physical laws. Quantitative discussion of orbital motion, time, telescopes, solar system, stars, galaxies, and limited opportunity for astronomical observation.			Advanced special topics to provide additional group research and classroom/laboratory opportunities.	
Co-req: PS 500			Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			PS 660 Independent Studies	1-4 Credit hours
PS 510 Remote Sensing w Applications	4 Credit hours		Advanced independent study topics to provide additional individual research and classroom/laboratory opportunities.	
A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial analysis computer software systems with earth resource applications.			Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode			Grade Mode: Normal Grading Mode	
PS 511 Image Processing/Modeling	4 Credit hours		PS 661 Independent Studies	1-4 Credit hours
A study of image processing/geographic information and spatial analysis hardware/software systems, concurrent and parallel image processing modeling scenarios utilizing geobiophysical data for computer simulation modeling and practicum. (PR: PS 510)			Advanced independent study topics to provide additional individual research and classroom/laboratory opportunities.	
Pre-req: PS 510.			Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			PS 670 Advanced Practicum	1-4 Credit hours
PS 580 Special Topics	1-4 Credit hours		Advanced problem solving, geobiophysical modeling, and project development techniques in the physical sciences.	
Grade Mode: Normal Grading Mode			Pre-req: PS 510 and PS 511.	
PS 581 Special Topics	1-4 Credit hours		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			PS 681 Thesis Research	1-6 Credit hours
PS 582 Special Topics	1-4 Credit hours		Credit earned by pursuing directed original research in a physical science area. A grade of PR may be reported at the close of each semester.	
Grade Mode: Normal Grading Mode			Attributes: Thesis	
PS 583 Special Topics	1-4 Credit hours		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			PS 682 Thesis Research	1-6 Credit hours
PS 585 Independent Study	1-4 Credit hours		Credit earned by pursuing directed original research in a physical science area. A grade of PR may be reported at the close of each semester.	
Grade Mode: Normal Grading Mode			Attributes: Thesis	
PS 586 Independent Study	1-4 Credit hours		Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required			PS 646 Sem Rec Develop Phys Sci	3 Credit hours
Grade Mode: Normal Grading Mode			Grade Mode: Normal Grading Mode	
PS 587 Independent Study	1-4 Credit hours		PS 648 Mod Physics for Teachers	3-5 Credit hours
Grade Mode: Normal Grading Mode			A course designed to provide additional background material in atomic and nuclear physics for teachers. Lecture and laboratory.	
PS 588 Independent Study	1-4 Credit hours		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode				