

Name: _____ Bronco ID: _____ Date: _____

Physics Subject Matter Preparation Program
Single Subject Science Preparation Programs: Physics Concentration

Need	Met	Course	Title	Units	Grade
		BIO 1210/L	Foundations of Biology: Energy and Matter and Information & Lab	3/1	
		BIO 1220/L	Foundations of Biology: Evolution, Ecology, and Biodiversity & Lab	3/1	
		CHM 1210/L	General Chemistry I & Lab	3/1	
		CHM 1220/L	General Chemistry II & Lab	3/1	
		GSC 1110/1410L	Principles of Geology & Lab	3/1	
		GSC 1160	Introduction to Astronomy	3	
		GSC 3500	Natural Disasters	3	
		PHY 1510/L	Introduction to Newtonian Mechanics & Lab	3/1	
		PHY 1520/L	Introduction to Electromagnetism and Circuits & Lab	3/1	
		SCI 2000, 2990, 4000, or 4990	Service Learning K-12 Field Experience (or in a department with permission)	2	
		SCI 4610 or department equivalent	Senior Research	3	
		SCI 4620	Senior Seminar	3	
		IGE 2300 and IGE 2400 or STS 2010 and PHL 3830	Science, Technology, Society, Culture, Philosophy, and/or Ways of Living	6	
Depth Courses in Physics					
		PHY 2530/L	Introduction to Electromagnetic Radiation and Special Relativity & Lab	3/1	
		PHY 2540/L	Introduction to Thermal and Quantum Physics & Lab	3/1	
		PHY 3040/L	Electronics for Scientists & Lab	2/1	
		PHY 3600/3600A	Mathematical Methods of Physics I & Recitation Activity	3/1	
		PHY 4140	Electricity and Magnetism I	3	
		PHY 3210	Advanced Classical Mechanics	3	
		PHY 4330/4330A	Thermal and Statistical Physics & Activity	3/1	
Select one of the following laboratory courses					
		PHY 4510A/ 4510L	Advanced Laboratory Physics – Advanced Instrumentation Activity & Laboratory	1/1	
		PHY 4520A/ 4520L	Advanced Laboratory Physics – Contemporary Experiments Activity & Laboratory	1/1	
Select one of the following courses					
		PHY 3440/3440A	Applied Optics & Computational Activities in Applied Optics Activity	2/1	
		PHY 4090/4090A	Computational Physics & Activity	2/1	
		PHY 4100	Biophysics	3	
		PHY 4170/L	Wave Optics & Lab	2/1	

The candidate must maintain an overall GPA of 2.75 in Subject Matter Preparation Coursework. Grades lower than a "C" will not be honored (e.g. C-)

This plan is intended to be a guide only. It should not replace consultation with a physics or science education advisor.

Advisor Signature/Date: _____ has completed 80% (86 units) of coursework _____

Single Subject Advisor Signature: _____ has completed 100% of coursework _____