Bachelor of Science (BS) Teaching		Program of Study for Physics Majors	
De	egree Code 266A	PHYSICS, SECONDARY EDUCATION LICENSURE	
Ι.	GENERAL EDUCATION CURRICULUM		
	Physics 1150 & 1151 or 1103 & 1104 fulfill the Science Inquiry perspective. MAT 1110 fulfills the Quantitative Literacy requirement.		
	I. PROFESSIONAL EDUCATION REQUIREMENTS		
	A minimum grade of C is required in each professional education course. Cl 2300 & FDN 2400 are required prior to admission to Teacher Edu		
A	Cl 2300 (2) Teaching and Learning in the Digital Age (<i>Entry course to teacher education</i>) FDN 2400 (2) Critical Perspectives on Teaching and Learning (<i>Pre or Co: Cl 2300</i>) (<i>Entry course to teacher education</i>)		
	PSY 3010 (3) Psychology Applied to Teaching (<i>Pre or Co: Cl 2300</i>)	PROFICIENCIES:	
	SPE 3300* (3) Creating Inclusive Learning Communities (Pre: Cl 2300, FD		
	C I 3400* (2) Policies and Practice in Educational Assessment (<i>Pre: Cl</i>		
	C I 4900 (12) Student Teaching [CAP] (All courses in professional core must		
	C (2.0) or higher prior to student teaching, along with other courses (inc	·	
	*Admission to Teacher Education required.		
	NOTE: To be admitted to the Teacher Education Program students must take and satisfy testing requirements for Reading, Writing and		
areas of the PRAXIS (PPST or CBT). The PRAXIS II Area Exams are required for student teaching.			
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III. MAJOR REQUIREMENTS (not including 12 s.h. counted in Area I, above)			
	courses under III. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.		
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Α.	Area of Specialization for teaching physics: (minimum of 32 semester hours)		
	PHY 1103 (4) General Physics I (Co: MAT 1020/1025) OR PHY 1		
	PHY 1104 (4) General Physics II (Pre: PHY 1103) PHY 1	151(5) Analytical Physics II ((Co: MAT 1120)	
	PHY 2010 (4) Intermediate Physics I (Pre: PHY 1104/1151; MAT 1120)		
	PHY 2020 (4) Intermediate Physics II (Pre: PHY 2010; MAT 2130)		
	PHY 2210 (3) Physics Laboratory Techniques and Data Analysis [W	/ID] (Co: ENG 2001, PHY 2020)	
	PHY 3210 (3) Modern Physics I (Pre: PHY 1151; Co: PHY 2010)		
	PHY 3400 (3) Physics Instruction Practicum (Pre: PHY 1104 or 1151)		
	PHY 3520 (1) Instructional Assistance (Pre: Jr/Sr standing)		
	PHY 4210 (3) Methods of Experimental Physics [CAP] (Pre: PHY 2210)		
	2 to 4 hours in PHY & AST electives for minimum of 32 hours in Physics		
В.	3. Biology (4 sh)		
	BIO 1801 (4) Biological Concepts I (Co: CHE 1101)		
С.	C. Geology (4 sh)		
_	GLY 1101 (4) Introduction to Physical Geology		
D.	Chemistry (8 sh)		
	CHE 1101 (3) Introductory Chemistry I (<i>Co: CHE 1110</i>)		
	CHE 1110 (1) Introductory Chemistry I Lab (<i>Co: CHE 1101</i>)		
	CHE 1102 (3) Introductory Chemistry II (<i>Pre: CHE 1101/1110; Co: CHE 11</i>	20)	
-	CHE 1120 (1) Introductory Chemistry II Lab (Co: CHE 1102)		
Ε.			
	MAT 1110 (4) Calculus with Analytic Geometry I (Pre: MAT 1025 w/min		
	MAT 1120 (4) Calculus with Analytic Geometry II (<i>Pre: MAT 1110 w/mi</i>) MAT 2130 (4) Calculus with Analytic Geometry III (<i>Pre: MAT 1120 w/m</i>)		
F.		in grade C-)	
г.	PHY 3521 (1) Secondary Science Field Experience (<i>Pre: Jr/Sr standing</i>)		
	G S 4403* (3) Teaching Science in Middle and High Schools [WID]	(Pro: ENC 2001)	
	R E 4630* (2) Reading in the Content Areas	Pre. ENG 2001)	
G	Additional Required Courses (minimum 3 sh) (Select from the following)		
AST 1001 (4) Introductory Astronomy I - Solar System			
		Intro to Differential Equations (Pre: MAT 1120)	
	PHY 3140 (3) Environmental Phy (<i>Pre: 1104/1151</i>) PHY 4020 (3)		
		Analog Systems (Pre: PHY 3210) w/"C" or better;	
		MAT 2130)	
IV. MINOR (optional)			
٧.	ELECTIVES (taken to total 122 hours for the degree)	<u>2</u>	

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