Bachelor of Science (BS) Teaching		Program of Study for Physics Majors		
Degree Code 266A		ICS, SECONDARY EDUCATION LICENSURE		
Ι.	I. GENERAL EDUCATION CURRICULUM			
	Physics 1150 & 1151 or 1103 & 1104 fulfill the Science Inquiry perspective. MAT 1110 fulfills the Quantitative Literacy requirement.			
	II. PROFESSIONAL EDUCATION REQUIREMENTS			
А		inimum grade of C is required in each professional education course. Cl 2300 & FDN 2400 are required prior to admission to Teacher Educ.		
	CI 2300 (2) Teaching and Learning in the Digital Age (Entry course to teacher e			
	FDN 2400 (2) Critical Perspectives on Teaching and Learning (<i>Pre or Co: Cl 2300</i>			
	PSY 3010 (3) Psychology Applied to Teaching (<i>Pre or Co: Cl 2300</i>)	PROFICIENCIES:		
	SPE 3300* (3) Creating Inclusive Learning Communities (<i>Pre: Cl 2300, FDN 2400,</i>			
	C I 3400* (2) Policies and Practice in Educational Assessment (Pre: Cl 2300, FL			
	C I 4900 (12) Student Teaching [CAP] (All courses in professional core must be comp.	·		
	C (2.0) or higher prior to student teaching, along with other courses (including methods and reading) identified within the major.			
	*Admission to Teacher Education required.			
NOTE: To be admitted to the Teacher Education Program students must take and satisfy testing requirements for Reading				
	areas of the PRAXIS (PPST or CBT). The PRAXIS II Area Exams are required for student teaching	ng.		
III.	III. MAJOR REQUIREMENTS (not including 12 s.h. counted in Area I, above)	57		
	2.0 major GPA is required for graduation. Major GPA calculation will include all courses ta	ken in the major department, plus any other		
	courses under III. Minimum of 18 semester hours of courses taken to fulfill major requirem	ents must be courses offered by Appalachian.		
Δ.	A. Area of Specialization for teaching physics: (minimum of 32 semester hours)			
	PHY 1103 (4) General Physics I (<i>co: MAT 1020/1025</i>) OR PHY 1150	(5) Analytical Physics I (Co: MAT 1110)		
		(5) Analytical Physics II (<i>(Co: MAT 1120)</i>		
	PHY 2010 (4) Intermediate Physics I (<i>Pre: PHY 1104/1151; MAT 1120</i>)			
	PHY 2020 (4) Intermediate Physics II (Pre: PHY 2010; MAT 2130) DUV 2212 (2) Duv 100 (100 (100 (100 (100 (100 (100 (100			
	PHY 2210 (3) Physics Laboratory Techniques and Data Analysis [WID] (co	: ENG 2001, PHY 2020)		
	PHY 3210 (3) Modern Physics I (<i>Pre: PHY 1151; Co: PHY 2010</i>)			
	PHY 3400 (3) Physics Instruction Practicum (<i>Pre: PHY 1104 or 1151</i>)			
	PHY 3520 (1) Instructional Assistance (<i>Pre: Jr/Sr standing</i>)			
	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.	B. Biology (4 sh)			
~	BIO 1801 (4) Biological Concepts I (Co: CHE 1101)			
ι.	C. Geology (4 sh)			
-	GLY 1101 (4) Introduction to Physical Geology			
υ.	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 1120</i>)			
-	CHE 1120 (1) Introductory Chemistry II Lab (Co: CHE 1102)			
Ε.				
	MAT 1110 (4) Calculus with Analytic Geometry I (<i>Pre: MAT 1025 w/min grade C</i>			
	MAT 1120 (4) Calculus with Analytic Geometry II (<i>Pre: MAT 1110 w/min grade C</i>			
-	MAT 2130 (4) Calculus with Analytic Geometry III (Pre: MAT 1120 w/min grade	C-)		
F.				
	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] (Pre: ENG	5 2001)		
~	R E 4630* (2) Reading in the Content Areas			
G.	G. Additional Required Courses (minimum 3 sh) (Select from the following)			
	AST 1001 (4) Introductory Astronomy I - Solar System	Differential Equations (Brow MAT 1120)		
	STT 2810 (3) Basic Statistics (Pre: MAT 1010) MAT 3130 (3) Intro to PHY 3140 (3) Environmental Phy (Pre: 1104/1151) PHY 4020 (3) Comp I	Differential Equations (Pre: MAT 1120) Meth in Physics & Engineering (Pre: PHY 2010&2020		
	PHY 4330 (3) Digital Electronics PHY 4730 (3) Analog			
		MAT 2130)		
IV.	IV. MINOR (optional)	,		
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V.	V. ELECTIVES (taken to total 122 hours for the degree)	2		
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127