	chelor of Science (I gree Code 270*	3S)	2016-201	7			Pr	ogram of Study f	for Physics Majors PHYSICS			
	ncentration Code 2	2700	2				SE	CONDARY EDUC	ATION LICENSURE			
١.	GENERAL EDUCATI	ON (CURRICULUM									
	Physics 1150 & 1151 (or 11	.03 & 1104 fulfill Science Inquiry. MAT 1110 ful	fills t	he Qua	antitative Li	terac	y requirement.				
п.	PROFESSIONAL EDI	ICA.	TION REQUIREMENTS									
			equired in each professional education course									
	-		eaching and Learning in the Digital Age (En									
			ritical Perspectives on Teaching and Learn						ation)			
	PSY 3010 (3) P	sychology Applied to Teaching (Pre or Co: Cl.	2300)					PROFICIENCIES:			
	SPE 3300* (3) C	reating Inclusive Learning Communities (Pr	e: Cl	2300, Fl	DN 2400, PS	Y 3010))	Reading			
	CI3400*(2) P	olicies and Practice in Educational Assessn	nent	(Pre: Cl	I 2300, FDN 2	2400, 1	PSY 3010)	English			
			tudent Teaching [CAP] (Pre: minimum 2.7 cumu									
	C (2.0) or higher prior to student teaching, along with other courses (including methods and reading) identified within the major.											
	*Admission to Teache	er Ed	ucation required.		N	/linimum 2	2.7 cı	umulative GPA req	uired to graduate			
	NOTE: To be admitted	NOTE: To be admitted to the Teacher Education Program students must have a minimum 2.7 cumulative GPA and take and satisfy testing										
	requirements for Reading, Writing and Math areas of the PRAXIS (PPST or CBT). The PRAXIS II Area Exams are required for student teaching.											
ш	MAIOR REOLUREM	FNT	S (not including 12 s.h. counted in Area I, abov	۵)					54			
			for graduation. Major GPA calculation will in									
			semester hours of courses taken to fulfill majo									
^	Area of Specializati	on f	or teaching physics: (minimum of 32 seme	octor	hour	-)						
Α.	-		General Physics I (Co: MAT 1020/1025)			-	(5)	Analytical Physics	$\int (C_{0}; MAT 1110)$			
			General Physics II (Pre: PHY 1103)			1150		Analytical Physics				
						1101	_(3)	/ mary clear r mysles	n (100. m// 1120)			
			Intermediate Physics I (Pre: PHY 1104/1151; N		120)							
			Intermediate Physics II (Pre: PHY 2010; MAT 2 Physics Laboratory Techniques and Data A		vcic IV		c 2001					
			Modern Physics I (Pre: PHY 1151; Co: PHY 2010		ysis [v		2001	, PHY 2020)				
			Physics Instruction Practicum (Pre: PHY 1104		151)							
			Instructional Assistance (Pre: Jr/Sr standing)	+ 01 1	131)							
			Methods of Experimental Physics [CAP] (<i>i</i>	Drø· D	HV 2210	n						
			electives for minimum of 32 hours in Phys									
_												
в.	Biology (4 sh)	(•)										
	BIO 1801	(4)	Biological Concepts I (Co: CHE 1101)									
C.	Geology (4 sh)											
	GLY 1101	(4)	Introduction to Physical Geology									
П	Chemistry (4 sh)											
υ.		(3)	Introductory Chemistry I (Co: CHE 1110)		AND	CHF 11	10	(1) Intro Chem	istry Lab (Co: CHE 1101)			
_						0		(_)				
Ε.	Mathematics (12 st											
			Calculus with Analytic Geometry I (Pre: MA									
			Calculus with Analytic Geometry II (Pre: MA									
	MAT 2130	(4)	Calculus with Analytic Geometry III (Pre: M	AT 11	120 w/n	nin grade C-)						
F.	Other Required Co	urse	s (7 sh) (*Minimum "C" grade required)									
	PHY 3521(1) Secondary Science Field Experience (Pre: Jr/Sr standing)											
	G S 4403*(3) Teaching Science in Middle and High Schools [WID] (Pre: RC 2001; Sr. standing)											
	G S 4404	(3)	The Meaning & Nature of Science [WID]	'Pre: I	RC 2001	; Sr. standin	g)					
G.	Additional Require	d Ca	ourses (minimum 3 sh) (Select from the following	ng)								
			Introductory Astronomy I – The Solar System	0,		PHY 433	0	(4) Digital Electro	onics (Pre: Sr. standing)			
	MAT 3130	(3)	Intro to Differential Equations (Pre: MAT 1120)			PHY 473	0	(4) Analog Syste	ms (Co: PHY 3210; Sr standing)			
			Environmental Phy (Pre: 1104/1151)						cs (Pre: MAT 1010 or higher)			
	PHY 4020	(3)	Computational Methods in Physics & Engineeri	ng (P	re: PHY	2010 & 202	0 w/ n	nin grade "C"; MAT 213	0)			
IV.	MINOR (optional)											

٧.	ELECTIVES (taken to total 122 hours for the degree)	. <u> 5</u>
	Total hours required for graduation	127