

SOUTHERN NAZARENE UNIVERSITY
 Teacher Education Certification/Degree Checksheet
SCIENCE - PHYSICS EMPHASIS 6-12

Teacher Candidate _____ Advisor _____

GENERAL ED COURSES									
DEPT	COURSE #	DESCRIPTION	HRS	GR	DEPT	COURSE #	DESCRIPTION	HRS	GR
GS	1031	NSI	0		BLT	1163	Intro to Bib Lit	3	
ENGL	1113	Composition I	3		BLT	3013	Intro to Biblical Interp	3	
ENGL	1213	Composition II	3		CED	3023	Ministry, Church, Society	3	
MATH	---	See below	3		ECO	3033	Business, Econ & Society	3	
HP	1483/1493	US History I or II	3		HP	2013/2023	World Civ I or II	3	
HP	1113	American Government	3		FA	2123	Intro to Fine Arts	3	
SPC	1133	Intro to Speech	3		ENGL	2413	Intro to Literature	3	
PEG	xxx1	Physical Education Activity	1		THEO	2233	Intro to Christian Thought	3	
PEG	1001	Lifetime Wellness	1		PHIL	2013	Intro to Philosophy	3	
					NS	3043	Science, Tech & Society	3	
					SOC	3013	Contemporary Social Issues	3	

TOTAL ELECTIVES									
DEPT	COURSE #	DESCRIPTION	HRS	GR	DEPT	COURSE #	DESCRIPTION	HRS	GR

CERTIFICATION COURSES					PROFESSIONAL COURSES				
DEPT	COURSE #	DESCRIPTION	HRS	GR	DEPT	COURSE #	DESCRIPTION	HRS	GR
MATH	2324	Calculus I	4		ED	2111	Intro to Education/Lab	1	
MATH	2424	Calculus II	4		ED	2142	Educational Technology	2	
CHEM	1124	General Chemistry I	4		ED	2162	Foundations of Education	2	
CHEM	1224	General Chemistry II	4		ED	2173	Psychology of Child & Youth	3	
PHYS	1123	Intro to Astronomy	3		ED	3273	Methods in Secondary Science	3	
NS	1143	Earth and Sky	3		ED	4142	Survey of Exceptional Child	2	
NS	3121	Lab Safety & Animal Welfare	1		ED	4273	Professional Decision Making	3	
BIOL	1113	Intro to Biological Science	3		ED	4522	Characteristics in Early Adols	2	
PHYS	2114	General Physics - Scientists/Eng. I	4		ED	4534	M.S. Curriculum & Design	4	
PHYS	2214	General Physics - Scientists/Eng. II	4		ED	4700	Student Teaching Seminar	0	
PHYS	2313	Atomic & Nuclear Physics	3		ED	4xx5	Student Teaching MS	5	
PHYS	3191	Special Topics in Physics	1		ED	4xx5	Student Teaching Secondary	5	
PHYS	4151	*Advanced Physics Lab	1						
PHYS	4181	Directed Research	1						
		Elective	4						

Elective - Teacher candidates may take one of the following two options depending on teaching goals:
 *CHEM 3114 Organic Chemistry I (4 hours) if planning on teaching chemistry and physics
 *PHYS 3173 Waves and Optics (3 hours) and an additional PHYS 3191 Special Topics of Physics (1 hour) if planning on only teaching physics

Special topics may include Astrophysics; Biological Physics; Philosophy of Science; Nuclear Reactors and Weapons; Elementary Particle Physics; Musical Acoustics; Relativity; Fluid Mechanics and other topics on demand.

The physics courses listed above are considered the minimum for a solid content knowledge in high school physics teaching. Calculus III and at least one of the following physics courses are strongly recommended to round out and strengthen physics core knowledge.

RECOMMENDED COURSES									
DEPT	COURSE #	DESCRIPTION	HRS	GR	DEPT	COURSE #	DESCRIPTION	HRS	GR
MATH	2524	Calculus III	4		PHYS	3213	Quantum Mechanics I	3	
PHYS	4123	Elect. & Magnetism I	3		PHYS	4133	Classical Mechanics I	3	

Note: In addition to the above requirements, the State of Oklahoma requires that all teacher candidates establish Foreign Language proficiency prior to being recommended for certification. Please see your academic advisor or the Office of Teacher Education for specific guidelines for meeting this proficiency requirement.

Dates of review: _____

