

Pittsburg State University

College of Arts and Sciences Program Guide

Degree: Bachelor of Science in Education

Major: Physics Emphasis/Option: Minor (if required):

As of Fall 2018

Professional Studies Component*

In addition to the professional education courses listed below, the student must complete the courses for the teaching specialty for physics.

Teaching and Learning Theory with Laboratory and Clinical Experience

EDUC 261: Explorations in Education	3
PSYCH 263: Developmental Psychology	3
PSYCH 357: Educational Psychology	
PHYS 479: Techniques for Teaching Physics	
SPED 510: Overview of Special Education	
EDUC 520: Methods and Materials for Academic Literacy	3

PSYCH 357, PHYS 479, and EDUC 520 require admission to Teacher Education prior to enrollment in the courses.

Professional Semester (17 hours)

EDUC 458: Methods and Curriculum	3
EDUC 462: Secondary and Middle Level Education	2
EDUC 464: Foundations of Measurement and Evaluation	2
EDUC 480: Supervised Teaching in the Secondary School	3
EDUC 482: Supervised Teaching in the Secondary School	5
PHYS 579: Supervised Student Teaching and Follow-Up of	
Teachers	2

Content for the Teaching Specialty: Physics (61 hours)

PHYS 104: Engineering Physics I
and PHYS 130: Elementary Physics Laboratory I
PHYS 105: Engineering Physics II
or PHYS 131: Elementary Physics Laboratory II
PHYS 160: Physical Geology
PHYS 375: Solar System Astronomy
or PHYS 575: Introductory Astrophysics
PHYS 516: Modern Physics I
PHYS 530: Intermediate Physics Laboratory ()
PHYS 532: Electronic Circuits I
PHYS 569: Laboratory Assistant Practicum
PHYS 691: Senior Research Project
PHYS 699: Senior Review and Assessment
CHEM 215: General Chemistry I
and CHEM 216: General Chemistry I Laboratory
CHEM 225: General Chemistry II.
and CHEM 226: General Chemistry II Laboratory
MATH 150: Calculus I
MATH 155: Calculus II
BIOL 111: General Biology
and BIOL 112: General Biology Laboratory
CIS 230: Introduction to Programming

One additional upper-division physics course (3 hours)

GENER	AL E	DUCATION REQUIREMEN	ITS	ART	277	Painting I	3
(46-52 h	rs.)			ART		Introduction to Art History I	
Basic Skil			12-13 hours	ART		Introduction to Art History II	
COMM	207	Speech Communication		ART		Art Education	
ENGL	101			ART		Printmaking, Papermaking, Bookarts and	
-		English Composition		7.11.11	00.	Letterpress	
ENGL	190	Honors English Composition		ART	420	Automotive: Art and Design	
		Introduction to Research Writing	3				
Mathemat	ics (S	elect one)		COMM		Performance Appreciation	
MATH	110	College Algebra with Review	5	COMM		Performance Studies	
MATH	113	College Algebra	3	COMM		Theatre History	
MATH	126	Pre-Calculus	4	ENGL		Introduction to Creative Writing	
MATH	133	Quantitative Reasoning	3	HHP	151	Dance Appreciation	3
MATH		Elementary Statistics		MUSIC	120	Music Appreciation	3
Sciences			8-9 hours	MUSIC	121	Introduction to Music Literature	2
	iences	(Select one)	0 0 1104110				
BIOL		,	E				
		112 General Biology and Laboratory.		Cultural St	tudies	(Select one)	3 hours
BIOL		Environmental Life Science		ANTH	101	Introduction to Cultural Anthropology	3
BIOL		Principles of Biology I	4	MLL	114	Chinese Language and Culture I*	3
Physical S		s (Select one)		MLL		French Language and Culture I*	
CHEM	105/	106 Introductory Chemistry and Labor	atory 4	MLL		Spanish Language and Culture I*	
CHEM	107/	108 Chemistry for Life Sciences and I	aboratory 4	MLL		Russian Language and Culture I*	
PHYS	160/	165 Physical Geology and Laboratory	4	MLL		Korean Language and Culture I*	
PHYS		167 Meteorology and Laboratory					
PHYS		172 Physical Science and Laboratory		GEOG		World Regional Geography	
PHYS		176 Descriptive Astronomy and Laboratory		GEOG		Elements of Geography	
PHYS		176 Solar System Astronomy and Labor		GEOG		Human Geography	
		170 Solal System Astronomy and Lat	•	WGS	399	Global Women's Issues	3
Social Stu			3 hours	Health and	l Well	Being	4-6 hours
SOC		Introduction to Sociology		Psychologic	cal	•	
WGS	200	Introduction to Women's Studies	3	PSYCH		General Psychology	3
Dalitical C	4	(Calaat ana)	2 hours	Physical (S			
	ludies	(Select one)	3 hours	FCS	202	Nutrition and Health	2
POLS		Ù.S. Politics					
POLS	103	Comparative Political Institutions	3	FCS		Nutrition	
Producing	and (Consuming	5-6 hours	HHP		Lifetime Fitness Concepts.	
		two of the following three categories)		NURS	303	Introduction to Public Health	3
<u>-</u>	o IIOIII	two or the following three categories)		Human He	ritage		6 hours
Economy	404	Jacobs in Tadayis Fashamy	2				
ECON		Issues in Today's Economy		(Select one	from	two of the following three categories)	
_FCS		Consumer Ed. and Personal Finance	33	History			
Technolog			_	HISŤ	101	World History to 1500	3
EET		Computer Programming for Electron		HIST		World History from 1500	
GT	190	Introduction to Technological System	ıs2	HIST		American History to 1865.	
GT	350	Technology and Civilization	3	HIST			
EDTH	330	Technology for the Classroom	3		202	American History from 1865	
TE		Integrated Technology for Educators		Literature	440	On a small literature	0
TM		Societal Influence of Technology		ENGL		General Literature.	
Business	000	Cocietal illinacioc of Teermology		ENGL		General Literature(Genre)	
	201	Financial Accounting	2	ENGL	116	General Literature(Theme)	3
ACCTG		Financial Accounting		ENGL	120	Literature and Film	3
CIS		Computer Information Systems		ENGL	315	Mythology	3
MGT		Introduction to Business		ENGL		Literature and Film	
MGT	105	Introduction to Entrepreneurship	3	Philosophy			
				PHIL	103	Introduction to Philosophy	3
Fine Arts	and A	esthetic Studies (Select one)	2-3 hours	PHIL		Ethics	
ART	155	Printmaking and Paper Arts	3	PHIL		Biomedical Ethics	
ART		Introduction to the Visual Arts					
ART		The Designed World		PHIL		Business Ethics	
ART		Crafts I		PHIL		Environmental Ethics	
				PHIL		Critical Thinking	
ART	222	Jewelry Design I		PHIL	208	Logic and Critical Thinking	3
ART		Drawing I		PHIL		World Religions	
ART		Ceramics I				· ·	
ART	266	Sculpture I	3				

Notes

NOTE: The information contained herein is intended to be used for the planning of a student's academic program and does not constitute a contract. While this guide was prepared with the latest information, courses, graduation requirements, and curricula are subject to change.

When a student attains 85 semester hours of credit (including current enrollment) the student must apply for a degree check in the Office of the Registrar (Degree Checking Section), Room 102 Russ Hall.

MINIMUM GENERAL REQUIREMENTS: The minimum requirements for graduation include 124 semester hours of which 60 hours must be from a four year university. In addition, 45 semester hours must be upper division and 30 hours in residence at PSU (including 24 of the last 30). Minimum GPA for non-education degree is 2.0 overall [2.0 in major], secondary education degree is 2.5 overall [2.75 in major], and early/late childhood/unified degree is 2.80 overall [3.0 in major]. A minimum GPA of 2.0 in any minor and in residence coursework is required. General Education and all degree requirements are provided in the online catalog. Refer to individual departments for specific requirements.