Pittsburg State University

College of Arts & Sciences Program Guide

Degree: Bachelor of Science in Education
Major: Mathematics
Emphasis/Option:
Minor (if required):

As of Fall 2015

Major (Mathematics) Core Requirements (46 hours)

MATH 150: Calculus I 5
MATH 155: Calculus II 5
MATH 212: Matrix Algebra 2
MATH 253: Calculus III 3
MATH 304: Mathematics for Education II 3
MATH 343: Introductory Applied Statistics 3
MATH 413: Introduction to Mathematical Thought 3
MATH 471: Manipulatives for Teaching Mathematics 1
MATH 472: Calculators in Teaching Mathematics 1
MATH 473: Mathematical Software 1
MATH 513: Discrete Structures 3
MATH 607: History of Mathematics 3
MATH 613: Abstract Algebra 3
MATH 636: Basic Concepts of Geometry 3
MATH 656: Mathematical Modeling 3
MATH 699: Senior Seminar 1
CIS 230: Visual Basic Programming
or CIS 240: C ++ Programming 3
or a computer programming course approved by the mathematics department

Professional Education**** (37 hours)

EDUC 261: Explorations in Education 3
PSYCH 263: Developmental Psychology 3
PSYCH 357: Educational Psychology 3
MATH 479: Techniques for Teaching Mathematics 1-3
MATH 480: Internship in Secondary Mathematics Teaching 1
SPED 510: Overview of Special Education 3
EDUC 520: Methods and Materials for Academic Literacy 3
MATH 679: Mathematics Education Seminar 1

MATH 479 Techniques for Teaching Mathematics must be taken for 3 hours.

PSYCH 357 Education Psychology, MATH 479 Techniques for Teaching Mathematics, EDUC 511 Methods and Materials in Middle Level Education, EDUC 520 Methods and Materials for Academic Literacy require admission to Teacher Education to enroll in the class.

****See Admission to Professional Semester for professional education grade point requirements.

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
MATH 579: Supervised Student Teaching and Follow-Up of Teachers 2

The degree requirements for a B.S. in Education with a major in mathematics requires a minimum of 124 semester hours.

All students preparing to teach must meet the general education requirements for all baccalaureate degrees as well as the requirements for teacher licensure.

Students planning to teach should become familiar with the current Regulations for Certifying School Personnel, issued by The State Board of Education. Information concerning these regulations may be obtained from the Director of Teacher Education, 110 Hughes Hall, Pittsburg State University.

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GENERAL EDUCATION REQUIREMENTS (40-45 hrs.)

Basic Skills **9 hours**

COMM	207	Speech Communication	3
ENGL	101	English Composition	3
ENGL	190	Honors English Composition	
OR ENGL	299	Introduction to Research Writing	3

Must have a "C" or better in each of these Basic Skill courses.

Sciences ..... **8-9 hours**

Natural Sciences *(Select one)*

BIOL	111/112	General Biology and Laboratory	5
BIOL	113	Environmental Life Science	4
BIOL	211	Principles of Biology I	4

Physical Sciences (*Select one*)

CHEM	105/106	Introductory Chemistry and L2aboratory	4
CHEM	107/108	Chemistry for Life Sciences and Laboratory	4
PHYS	160/165	Physical Geology and Laboratory	4
PHYS	166/167	Meteorology and Laboratory	4
PHYS	171/172	Physical Science and Laboratory	4
PHYS	175/176	Descriptive Astronomy and Laboratory	4
PHYS	375/176	Solar System Astronomy and Laboratory	4

Social Studies **(Select one)** **3 hours**

SOC	100	Introduction to Sociology	3
WGS	200	Introduction to Women's Studies	3

Political Studies *(Select one)* **3 hours**

POLS	101	U.S. Politics	3
POLS	103	Comparative Political Institutions	3

Producing and Consuming **2-3 hours**

(Select one from one of the following two categories)

Economy

ECON	191	Issues in Today's Economy	3
FCS	230	Consumer Ed. and Personal Finance	3

Technology

EET	247	Computer Programming for Electronic Sys.	3
GT	190	Introduction to Technological Systems	2
GT	350	Technology and Civilization.	3
EDTH	330	Technology for the Classroom	3
TE	551	Integrated Technology for Educators.	3
TM	350	Societal Influence of Technology	3

Fine Arts and Aesthetic Studies *(Select one)*..... **2-3 hours**

ART	155	Printmaking and Paper Arts	3
ART	178	Introduction to the Visual Arts	3
ART	188	The Designed World	3
ART	217	Crafts I	3
ART	222	Jewelry Design I	3
ART	233	Drawing I	3
ART	244	Ceramics I	3
ART	266	Sculpture I	3
ART	277	Painting I	3
ART	288	Introduction to Art History I	3
ART	289	Introduction to Art History II	3
ART	311	Art Education	3
ART	351	Printmaking, Papermaking, Bookarts and the Letterpress	3
ART	430	Automotive: Art and Design	3
COMM	105	Performance Appreciation	3
COMM	205	Performance Studies	3
COMM	295	Theatre History	3
ENGL	250	Introduction to Creative Writing	3
HHP	151	Dance Appreciation	3
MUSIC	120	Music Appreciation	3
MUSIC	121	Introduction to Music Literature	2
MUSIC	321	History of Music	3

Cultural Studies *(Select one)* **3 hours**

ANTH	101	Introduction to Cultural Anthropology	3
MLL	114	Chinese Language and Culture I	3
MLL	124	French Language and Culture I	3
MLL	154	Spanish Language and Culture I	3
MLL	184	Russian Language and Culture I	3
MLL	194	Korean Language and Culture I	3
GEOG	106	World Regional Geography	3
GEOG	300	Elements of Geography	3
GEOG	304	Human Geography	3
WGS	399	Global Women's Issues	3

Health and Well Being **4-6 hours**

Psychological

PSYCH	155	General Psychology	3

Physical *(Select one)*

FCS	203	Nutrition and Health	3
FCS	301	Nutrition	3
HHP	150	Lifetime Fitness Concepts.	1
NURS	303	Introduction to Public Health	3

Human Heritage **6 hours**

(Select one from two of the following three categories)

History

HIST	101	World History to 1500.	3
HIST	102	World History from 1500	3
HIST	201	American History to 1865.	3
HIST	202	American History from 1865	3

Literature

ENGL	113	General Literature.	3
ENGL	114	General Literature(Genre)	3
ENGL	116	General Literature(Theme).	3
ENGL	120	Literature and Film	3
ENGL	315	Mythology	3
ENGL	320	Literature and Film	3

Philosophy

PHIL	103	Introduction to Philosophy.	3
PHIL	105	Ethics	3
PHIL	111	Ethics: Applied Emphasis(____).	3
PHIL	112	Biomedical Ethics	3
PHIL	113	Business Ethics	3
PHIL	114	Environmental Ethics	3
PHIL	207	Critical Thinking	3
PHIL	208	Logic	3
PHIL	231	World Religions.	3

Notes: Must have a "C" or better in each of the Basic Skills courses.

CIS 230 or 240 satisfies the General Education requirements.

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.