Pittsburg State University

College of Arts and Sciences Program Guide

Degree: Bachelor of Science
Major: Chemistry
Emphasis/Option: Environmental
Minor (if required): Required

As of Fall 2014

Core Chemistry Courses (25 hours)

CHEM 215: General Chemistry I 3
and CHEM 216: General Chemistry I Laboratory 2
CHEM 225: General Chemistry II. 3
and CHEM 226: General Chemistry II Laboratory 2
CHEM 325: Organic Chemistry I. 3
and CHEM 326: Organic Chemistry Laboratory 2
CHEM 335: Organic Chemistry II. 3
and CHEM 336: Organic Chemistry II Laboratory 2
MATH 150: Calculus I 5

Chemistry Courses (17 hours)

CHEM 445: Analytical Chemistry. 3
and CHEM 446: Analytical Chemistry Laboratory 2
CHEM 593: Physical Chemistry I 3
and CHEM 594: Physical Chemistry I Laboratory 2
CHEM 601: Chemistry Colloquium 0-1
CHEM 611: Senior Review and Assessment 1
CHEM 645: Instrumental Analysis 3
and CHEM 646: Instrumental Analysis Laboratory 2

One hour CHEM 601 Chemistry Colloquium is required.

Other (10 hours)

PHYS 104: Engineering Physics I 4
or PHYS 100: College Physics I 4
and PHYS 130: Elementary Physics Laboratory I 1
PHYS 105: Engineering Physics II 4
and PHYS 132: Engineering Physics Laboratory II 1
or PHYS 101: College Physics II 4
and PHYS 131: College Physics Laboratory II 1

An appropriate minor or second major should be chosen from Engineering Technology or Biology. A course in statistics is highly recommended. An undergraduate research experience in analytical chemistry is highly recommended.

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GENERAL EDUCATION REQUIREMENTS (33-41 hrs.)

Basic Skills ** **12-14 hours**

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

Sciences **

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

Social Studies **3 hours**

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

Political Studies **3 hours**

POLS	101	U.S. Politics	3

Producing and Consuming **5-6 hours**

(Select one from two of the following three 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

Business

ACCTG	201	Financial Accounting	3
CIS	130	Computer Information Systems	3
MGMKT	101	Introduction to Business	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
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)* **3-5 hours**

MLL	114	Chinese Language and Culture I	5
MLL	124	French Language and Culture I	5
MLL	154	Spanish Language and Culture I	5
MLL	184	Russian Language and Culture I	5
MLL	194	Korean Language and Culture I	5
GEOG	106	World Regional Geography	3
GEOG	300	Elements of Geography	3
GEOG	304	Human Geography	3
WOMEN	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	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 ** MATH 150 and core chemistry courses required in the major will fulfill a part of each of these 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.