



Pittsburg State University  
**College of Arts and Sciences Program Guide**

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

As of Fall 2017

## 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

## Biochemistry Emphasis

### Chemistry Courses (17 hours)

CHEM 575: Biochemistry I .....	3
and CHEM 576: Biochemistry I 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 773: Biochemistry II .....	3
and CHEM 774: Biochemistry II 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
or PHYS 101: College Physics II .....	4
and PHYS 131: Elementary Physics Laboratory II .....	1

A biology minor designed to complement this major should be selected or is highly recommended. An undergraduate research experience in this area is highly recommended.

# GENERAL EDUCATION REQUIREMENTS

(47-54 hrs.)

<b>Basic Skills **</b>	<b>9 hours</b>
COMM 207 Speech Communication.....	3
ENGL 101 English Composition.....	3
ENGL 190 Honors English Composition.....	3
OR ENGL 299 Introduction to Research Writing.....	3
<b>Social Studies</b>	<b>3 hours</b>
SOC 100 Introduction to Sociology .....	3
WGS 200 Introduction to Women's Studies .....	3
<b>Political Studies (Select one)</b>	<b>3 hours</b>
POLS 101 U.S. Politics.....	3
POLS 103 Comparative Political Institutions .....	3
<b>Producing and Consuming</b>	<b>5-6 hours</b>
<i>(Select one from two of the following three categories)</i>	
<b>Economy</b>	
ECON 191 Issues in Today's Economy .....	3
FCS 230 Consumer Ed. and Personal Finance .....	3
<b>Technology</b>	
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
<b>Business</b>	
ACCTG 201 Financial Accounting .....	3
CIS 130 Computer Information Systems .....	3
MGT 101 Introduction to Business .....	3
MGT 105 Introduction to Entrepreneurship.....	3
<b>Fine Arts and Aesthetic Studies (Select one).....</b>	<b>2-3 hours</b>
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

<b>Cultural Studies (Select one)</b>	<b>3 hours</b>
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

<b>Health and Well Being</b>	<b>4-6 hours</b>
<b>Psychological</b>	
PSYCH 155 General Psychology .....	3
<b>Physical (Select one)</b>	
FCS 203 Nutrition and Health.....	3
FCS 301 Nutrition.....	3
HHP 150 Lifetime Fitness Concepts.....	1
NURS 303 Introduction to Public Health.....	3

<b>Human Heritage</b>	<b>6 hours</b>
<i>(Select one from two of the following three categories)</i>	
<b>History</b>	
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
<b>Literature</b>	
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
<b>Philosophy</b>	
PHIL 103 Introduction to Philosophy. ....	3
PHIL 105 Ethics .....	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.