



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

Degree: Bachelor of Science  
Major: Chemistry  
Emphasis/Option: Pre-Medicine/Pre-Medical Profession  
Minor (if required):

As of Fall 2016

## 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

## Pre-Medicine/Pre-Medical Profession

### 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

The suggested minor or second major should be chosen from Biology. All prospective pre-medicine students should see a Chemistry Department Pre-Medicine advisor prior to their first registration. This program is also designed for pre-dental, pre-physical therapy, pre-veterinary and other medically related programs.

## GENERAL EDUCATION REQUIREMENTS

(47-54 hrs.)

<b>Basic Skills **</b>		<b>12-14 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
MGMKT 101	Introduction to Business.....	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 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.