



Pittsburg State University College of Arts and Sciences Program Guide

Degree: Bachelor of Science
Major: Chemistry
Emphasis/Option: Pharmaceutical
Minor (if 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

Basic Skills (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
MATH 150: Calculus I	5

*General Education Electives (25-26 hours)

Sciences (9-10 hours)

Natural Sciences (Select one)

BIOL 111: General Biology	3
and BIOL 112: General Biology Laboratory	2
BIOL 211: Principles of Biology I	4

Physical Science

Satisfied by the Major

Social Studies

SOC 100: Introduction to Sociology	3
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Political Studies

POLS 101: U.S. Politics	3
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Fine Arts and Aesthetic Studies

MUSIC 120: Music Appreciation (____)	3
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Health and Well Being

PSYCH 155: General Psychology	3
HHP 150: Lifetime Fitness Concepts	1

Human Heritage (Select one)

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

Chemistry Courses (20 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

Biology Courses (10 hours)

BIOL 257: Anatomy and Physiology	3
and BIOL 258: Anatomy and Physiology Laboratory	2
BIOL 371: General Microbiology	3
and BIOL 372: General Microbiology Laboratory	2

Mathematics Courses

MATH 150 Calculus I (5 hours) (Satisfied by General Education)

*Approved by the General Education Committee

A minor is not required for the pharmaceutical chemistry emphasis.

Remaining requirements for the baccalaureate degree are fulfilled upon satisfactory completion of the first two years of any accredited pharmacy school curriculum. An official transcript will need to be sent directly from the pharmacy school to Pittsburg State University, Registrar's office. Restrictions on credit hours earned on campus and in the final semester are waived.

Sample Professional Curriculum* (A minimum of 56 hours to be transferred from an accredited School of Pharmacy).

P&TX 630 Pharmacology I (4 hours)

MDCM 601 Medicinal Biochemistry I (4 hours)

MDCM 602 Medicinal Biochemistry Laboratory (1 hour)

PHPR 500 Early Pharmacy Practice Experience (1 hour)

PHCH 517 Calculations (2 hour)

PHPR 620 Ethics & Intro to Law (1 hour)

PHAR 507 Dean's Orientation & Introduction to Pharmacy (1 hour)

MDCM 603 Medicinal Biochemistry II (3 hours)

PHCH 518 Principles of Solution/Dosage Forms (3 hours)

P&TX 631 Pharmacology II (4 hours)

PHAR 502 Pharmacy Practice II (3 hours)

PHAR 510 Laboratories (1 hour)

PHAR 505 Immunization Theory and Practice (1 hour)

MDCM 625 Medicinal Chemistry I (3 hours)

P&TX 632 Pharmacology III (4 hours)

PHCH 625 Pharmacokinetics (3 hours)

PHPR 503 Pharmacy Practice III (4 hours)

PHAR 515 Laboratories (1 hour)

MDCM 626 Medicinal Chemistry II (3 hours)

P&TX 640 Toxicology (2 hours)

PHPR 646 Pharmacotherapy I (4 hours)

PHCH 626 Biopharmaceutics & Drug Delivery (3 hours)

PHPR 619 Health Care Systems (3 hours)

PHAR 520 Laboratories (2 hours)

*The Sample Professional Curriculum indicated reflects the University of Kansas Pharmacy Curriculum but the Curriculum is representative of all Pharmacy Schools in the United States.

GENERAL EDUCATION REQUIREMENTS

(39-45 hrs.)

Basic Skills	12-13 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	8-9 hours
Natural Sciences (<i>Select one</i>)	
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
<i>(Select one from two of the following three categories)</i>	
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 (<i>Select one</i>).....	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 (<i>Select one</i>)	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 (<i>Select one</i>)	
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
<i>(Select one from two of the following three categories)</i>	
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

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.