



Student Handbook

2009-2010

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NONDISCRIMINATION STATEMENT

The University of Iowa prohibits discrimination in employment, educational programs, and activities on the basis of race, national origin, color, creed, religion, sex, age, disability, veteran status, sexual orientation, gender identity, or associational preference. The University also affirms its commitment to providing equal opportunities and equal access to University facilities. For additional information contact the Office of Equal Opportunity and Diversity, (319) 335-0705.

COLLEGE MISSION

The College of Pharmacy serves the state, nation and world by a) enhancing human health through the creation and dissemination of knowledge in discovery, development and evaluation of new drugs and drug delivery systems, optimization of safe and effective drug use, and improvement of pharmaceutical services through pharmaceutical care delivery; b) preparing outstanding pharmacists and pharmaceutical scientists to meet the health care needs of the diverse populations of the state and society and enhancing the delivery of essential pharmacy services for all citizens; and c) developing and transferring new advances in pharmaceutical science and technology to strengthen and support the State of Iowa and society.

INTRODUCTION

This handbook is designed to provide College of Pharmacy students with information and answers to questions concerning Collegiate and University policies.

PLEASE READ THIS HANDBOOK CAREFULLY. Many of your concerns and questions are addressed in this handbook. Students are ENCOURAGED to contact the OFFICE OF ACADEMIC AFFAIRS, 127 PHARMACY BUILDING, with any additional questions, concerns or suggestions.

COLLEGE ADMINISTRATIVE PERSONNEL

Dean, Donald E. Letendre
Executive Associate Dean, Bernard Sorofman
Director, Human Resources, Facilities and Fiscal Management, Michael T. Sullivan
Executive Assistant, Judy Putney
Director, Professional Affairs and External Relations, and Information Technology, Barbara Kelley
Publications Coordinator, Leslie Stodden
Systems Administrator and Systems Programmer I, David Bress
Information Technology Support Services, Al Raymond

Associate Dean for Professional Education, Michael W. Kelly
Director of Instructional Technology, Vern Duba
Program Associate I, Jennifer Bertrand
Program Associate I, Patricia McCormick
Secretary, Teresa Ahrens

Associate Dean for Assessment, Curriculum and Compliance, and Director of Global Studies, Hazel Seaba
Research Assistant II, Anne Wisner

Associate Dean for Graduate Education, and Research, Michael Duffel
Secretary, Lois Baker

Assistant Dean, University of Iowa Hospitals and Clinics, Paul Abramowitz
Assistant Dean, Veterans Affairs Medical Center, Kathy Rinehart

Department of Pharmaceutical Sciences and Experimental Therapeutics, TBA
Division of Pharmaceutics and Drug Dynamics, Maureen Donovan
Secretary, Josie F. Birtcher
Division of Medicinal and Natural Products Chemistry, Kevin Rice
Secretary, Patricia A. Sadowski
Secretary, Kelly Walsh

Department of Pharmacy Practice and Science, Bernard Sorofman
Administrative Associate, Amber Seaton
Secretary, Denise Davis
Division of Health Services Research, William Doucette
Division of Applied Clinical Science, Director of Experiential Education, Director of Community Pharmacy Residency Program, Jay Currie
Director of Preceptor & Site Development, Susan Staggs
Associate Director of Experiential Education, Advanced Pharmacy Practice Experiences, Sandra Johnson
Assistant Director of Experiential Education, Introductory Pharmacy Practice Experiences, Jennifer Seyfer
Program Assistant for Experiential Education, Lisa DuBrava
Director of Pharm.D. Didactic Education, Christine Catney
Director of Pharmacy Practice Laboratory, Jeff Reist
Director of the Pharmaceutical Socioeconomics Graduate Program, John Brooks

COLLEGE OF PHARMACY DIRECTORY

| | | |
|---------------------------------|--------------------------|----------------------------|
| Abramowitz, Paul..... | 384-9371 | CC101 GH |
| Ahrens, Teresa | 335-8795 | 127 Phar |
| ASP Bookstore | 335-8845 | 115A Phar |
| Assem, Mahfoud..... | 335-8839 | S421 Phar |
| Baker, Karen..... | 335-7459 | S455 DSB |
| Baker, Lois..... | 335-8797 | 118 Phar |
| Becker, Amy | 356-2577 | CC101 GH |
| Beltz, Elizabeth..... | 356-2577 | CC101 GH |
| Bertrand, Jennifer | 335-8974 | 127B Phar |
| Birtcher, Josie | 335-8796 | S213 Phar |
| Bream-Rouwenhorst, Heather..... | 338-0581 x 3566 | VAMC |
| Bress, David | 335-8234 | 133A Phar |
| Brooks, John M..... | 335-8763 | S533 Phar |
| Buys (Nixon), Lucinda | 712-294-5055 | Sioux City Family Practice |
| Cantrell, Matt | 338-0581 x 5140 | 119 VAMC |
| Carter, Barry | 335-8456 | S527 Phar |
| Catney, Christine | 335-8760 | S412 Phar |
| Chrischilles, Elizabeth | 384-5009 | C21J GH |
| Cohen, Jordan..... | 335-8794 | 123 Phar |
| Crabb, Thomas..... | 335-8803 | S428 Phar |
| Currie, Jay | 335-8875 | S521 Phar |
| Davis, Denise..... | 335-8878 | S557 Phar |
| Dean's Office | 335-8794 | 118 Phar |
| DDIS | 335-4800 | N330 OH |
| Donovan, Maureen | 335-9697/5-8823 | S219/S213 Phar |
| Doorn, Jonathan | 335-8834 | S328 Phar |
| Doucette, William..... | 335-8786 | S518 Phar |
| Duba, Vern..... | 335-8847 | 306-1 Phar |
| DuBrava, Lisa | 353-5157 | S411 Phar |
| Duffel, Michael..... | 335-8840 | S325 Phar |
| Ernst, Erika | 335-8785 | S415 Phar |
| Ernst, Michael..... | 384-7756 | 01287 PFP |
| Farris, Karen | 384-4516 | S525 Phar |
| Fiegel, Jennifer | 335-8830 | S215 Phar |
| Flanagan, Doug..... | 335-8827 | S225 Phar |
| Fleckenstein, Lawrence..... | 335-8804 | S427 Phar |
| Fowler, Jill..... | 356-2577 | CC101 GH |
| Fravel, Michelle..... | 335-6513 | S211 Phar |
| Fuhrmeister, Glen..... | 335-7503 | 219 Phar |
| Hemerson, Phyllis..... | 335-6614 | Mercy Hospital, Iowa City |
| Herman, Ronald | 335-4825 | N337 OH |
| Hoehns, Jim..... | 319-272-2533 | NE IA Med, Waterloo |
| Horner, Kathleen | 353-7391 | CC101 GH |
| Horning, Kristen..... | 515-265-1413 x 233 | IA Health, Des Moines |
| Hospital Information..... | 356-1616 | GH |
| Hospital Pharmacy | 356-2577 | GH |
| IDIS..... | 335-4800 | N330 OH |
| Jacobsen, Ryan..... | 356-2577 | CC101 GH |
| Jin, Zhendong..... | 353-5359 | S315 Phar |
| Johnson, Sandra | 335-8835 | S414 Phar |
| Johnson, Sarah | 356-2577 | CC101 GH |
| Kee, Vicki..... | 335-4820 | N336 OH |
| Kelley, Barbara | 335-7301 | 204 Phar |
| Kelly, Michael..... | 335-7644 | 110 Phar |
| Kerns, Robert..... | 335-8800 | S321 Phar |
| Kirsch, Lee E. | 335-8824 | S221 Phar |
| Kumar, Vijay | 335-8836 | 208-1 Phar |

| | | |
|----------------------------|--------------------|------------------------|
| Letendre, Donald | 335-8794 | 118 Phar |
| LRC | 335-8234 | 133 Phar |
| Marek, Cindy | 335-6977 | S306 DSB |
| Matheson, Lloyd | 335-9757 | S213 Phar |
| McCormick, Patricia | 335-8795 | 127C Phar |
| McDanel, Deanna | 356-2577 | CC101 GH |
| Meighan, Katie | 335-8677 | 318 Phar |
| Milavetz, Gary | 335-8877 | S419 Phar |
| Moore, Kevin | 335-4800 | N347 OH |
| Murry, DJ | 335-8157 | S418 Phar |
| Office of Academic Affairs | 335-8795 | 127 Phar |
| Olivo, Horacio | 335-8849 | S319 Phar |
| Pharmaceutical Service | 335-8674 or 5-7521 | S014 Phar |
| Polgreen, Linnea | 384-4570 | S528 Phar |
| Ponto, James | 356-2741 | 3832 JPP |
| Putney, Judy | 384-8794 | 118 Phar |
| Raymond, Al | 335-8649 | 133A Phar |
| Reist, Jeff | 335-6513 | 216 Phar |
| Rice, Kevin | 335-9903 | S300 Phar |
| Rinehart, Kathy | 338-0581 x5102 | VAMC |
| Roman, David | 335-6920 | S328 Phar |
| Sadowski, Patty | 335-8802 | S311 Phar |
| Salem, Ali | 335-8810 | S228 Phar |
| Seaba, Hazel | 335-9241 | 108 Phar |
| Seaton, Amber | 335-8779 | S514 Phar |
| Seyfer, Jenny | 335-8861 | S411 Phar |
| Shaw, Robert | 338-0581 x 5164 | 119 VAMC |
| Sorofman, Bernard | 335-8838 | S511 Phar |
| Staggs, Susan | 335-8837 | S413 Phar |
| Starry, Mary | 384-2973 | 220 Phar |
| Stodden, Leslie | 335-8348 | 133C Phar |
| Sullivan, Mike | 335-8794 | 118 Phar |
| Swegle, John | 641-422-7182 | Mason City Family Prac |
| Trewet, CoraLynn | 515-282-5630 | DM Broadlawns Med Ctr |
| Tuteja, Sony | 335-8752 | S418 Phar |
| UI Switchboard | 335-3500 | |
| Urmie, Julie | 335-8616 | S519 Phar |
| VA Medical Center | 338-0581 | 119 VAMC |
| Veng-Pedersen, Peter | 335-8792 | S227 Phar |
| Walsh, Kelly | 335-8832 | 307 Phar |
| Wells, Mick | 335-8678 | G18 Phar |
| Weetman, David | 356-2577 | CC101 GH |
| Wilde, Tamara | 335-8844 | S557 Phar |
| Wiser, Anne | 384-2863 | 133B Phar |
| Wurster, Dale Eric | 335-8825 | S215 Phar |
| Xie, Yang | 335-8623 | S513 Phar |

Pharm.D. CURRICULUM SUMMARY
(for Pharm.D. students matriculating Fall 2006 or earlier)

First Pre-Professional Year

| Course | S.H. | Course | S.H. |
|---|-------|-----------------------------------|-------|
| Rhetoric (10:1 or 10:3) | 4 | Rhetoric (10:2) | 4 |
| Principles of Chemistry I (4:11) | 4 | Principles of Chemistry II (4:12) | 4 |
| Calculus for Biological Sciences (22M:16) | 4 | Principles of Biology I (2:10) | 4 |
| Physics (29:8) If Needed* | 4 | General Education Electives | (3-6) |
| General Education Electives | (3-6) | TOTAL | 15-18 |
| TOTAL | 15-18 | | |

Second Pre-Professional Year

| Course | S.H. | Course | S.H. |
|---------------------------------|-------|------------------------------------|-------|
| Organic Chemistry I (4:121) | 3 | Organic Chemistry II (4:122) | 3 |
| Human Anatomy (60:110) | 3 | Human Physiology (27:130) | 3 |
| Principles of Biology II (2:11) | 4 | Microbiology (61:112 or 61:164) | 4 |
| Microeconomics (6E:1) | 4 | Statistics (22S:XX) but not 22S:23 | |
| General Education Electives | (4) | General Education Electives | (5) |
| TOTAL | 14-18 | TOTAL | 13-18 |

*One year of high school physics or 29:8 must be completed with a laboratory
General Education Electives: 20 s.h. needed by the end of the Doctor of Pharmacy program to graduate, may be taken during summer session

FIRST PROFESSIONAL YEAR

Fall Semester

| Course | S.H. |
|---|----------|
| Pharmacy Practice Lab I (46:050) | 2 |
| Biochemistry for Pharmacy Students (99:162) | 4 |
| Pharmaceutics I: Solutions (46:123) | 4 |
| Introduction to Human Pathology (69:133) | 4 |
| Fundamentals of Evaluating Clinical Research (46:103) | 1 |
| Introductory Practice Experience I (46:001)** | <u>1</u> |
| TOTAL | 16 |

Spring Semester

| Course | S.H. |
|---|----------|
| Pharmacy Practice Lab II (46:051) | 2 |
| MNPC I: Biotechnology & Chemotherapy (46:128) | 4 |
| Pharmaceutics II: Solids & Semi-Solids (46:124) | 4 |
| Pharmacology I (71:180) | 3 |
| Pharmacy Law and Ethics (46:104) | <u>2</u> |
| TOTAL | 15 |

SECOND PROFESSIONAL YEAR

| Course | S.H. | Course | S.H. |
|--|----------|--|----------|
| Pharmacy Practice Lab III (46:116) | 2 | Pharmacy Practice Lab IV (46:117) | 2 |
| MNPC II: Pharmacodynamic Agents (46:131) | 4 | MNPC III: Medicinal Neurochemistry(46:132) | 4 |
| Pharmacokinetics/Biopharmaceutics (46:138) | 3 | Clinical Pharmacokinetics (46:170) | 3 |
| Introduction to Therapeutics (46:149) | 2 | Therapeutics-Respiratory (46:155) | 2 |
| Therapeutics-Women's & Men's Health (46:154) | 2 | Therapeutics-Cardiovascular (46:156) | 2 |
| Pharmacology II (71:181) | <u>4</u> | Clinical Practice Skills I (46:106) | 1 |
| TOTAL | 17 | Introductory Practice Experience II (46:002)** | 1 |
| | | Professional Electives | <u>3</u> |
| | | TOTAL | 18 |

THIRD PROFESSIONAL YEAR

| Course | S.H. | Course | S.H. |
|--|----------|--|----------|
| Pharmacy Practice Lab V (46:118) | 2 | Pharmacy Practice Lab VI (46:119) | 2 |
| Therapeutics-FEN, GI, Renal (46:158) | 2 | Therapeutics-Neurology, Psychiatry (46:164) | 2 |
| Therapeutics-Immunology, Hematology (46:159) | 2 | Therapeutics-Infectious Disease (46:165) | 2 |
| Clinical Practice Skills II (46:107) | 2 | Clinical Practice Skills III (46:108) | 2 |
| Core Principles in PSE (46:130) | 3 | PSE Selectives (will require 2 or more courses)*** | 4 |
| Drug Literature Evaluation (46:115) | 2 | Introductory Practice Experience III (46:003)** | 1 |
| Professional Electives | <u>4</u> | Professional Electives | <u>5</u> |
| TOTAL | 17 | TOTAL | 18 |

***May choose from: 46:398, 344,355,356,353, 357, or 173:291, and/or 6E:113

FOURTH PROFESSIONAL YEAR

Summer

Advanced Practice Experiences 12 s.h.

Fall

Advanced Practice Experiences 12 s.h.

Spring

Advanced Practice Experiences 12 s.h.

**Each year, students must complete one semester of Introductory Pharmacy Practice Experience, either fall or spring as assigned.
Professional Electives may be acquired only during the four professional years, including summer session. A total of 12 s.h is required.

Pharm.D. CURRICULUM SUMMARY
(for Pharm.D. students matriculating Fall 2007)

First Pre-Professional Year

| Course | S.H. | Course | S.H. |
|---|-------|-----------------------------------|-------|
| Rhetoric (10:1 or 10:3) | 4 | Rhetoric (10:2) | 4 |
| Principles of Chemistry I (4:11) | 4 | Principles of Chemistry II (4:12) | 4 |
| Calculus for Biological Sciences (22M:16) | 4 | Principles of Biology I (2:10) | 4 |
| Physics (29:8) If Needed [#] | 4 | General Education Electives | (3-6) |
| General Education Electives | (3-6) | TOTAL | 15-18 |
| TOTAL | 15-18 | | |

Second Pre-Professional Year

| Course | S.H. | Course | S.H. |
|---------------------------------|-------|-----------------------------------|-------|
| Organic Chemistry I (4:121) | 3 | Organic Chemistry II (4:122) | 3 |
| Human Anatomy (60:110) | 3 | Human Physiology (27:130) | 3 |
| Principles of Biology II (2:11) | 4 | Microbiology (61:164) | 4 |
| Microeconomics (6E:1) | 4 | Statistics (22S:XX) but not 22S:2 | 3 |
| General Education Electives | (4) | General Education Electives | (5) |
| TOTAL | 14-18 | TOTAL | 13-18 |

[#]One year of high school physics or 29:8 must be completed with a laboratory

General Education Electives: 20 s.h. needed by the end of the Doctor of Pharmacy program to graduate, may be taken during summer session

FIRST PROFESSIONAL YEAR

Fall Semester

| Course | S.H. |
|---|------|
| Pharmacy Practice Lab I (46:050) | 2 |
| Biochemistry for Pharmacy Students (99:162) | 4 |
| Pharmaceutics I: Solutions (46:123) | 4 |
| Introduction to Human Pathology (69:133) | 4 |
| Fundamentals of Evaluating Clinical Research (46:103) | 1 |
| TOTAL | 15 |

Spring Semester

| Course | S.H. |
|---|------|
| Pharmacy Practice Lab II (46:051) | 2 |
| MNPC I: Biotechnology & Chemotherapy (46:128) | 3 |
| Pharmaceutics II: Solids & Semi-Solids (46:124) | 4 |
| Pharmacology I (71:180) | 3 |
| Pharmacy Law and Ethics (46:104) | 2 |
| Introduction to Pharmacy Practice (46:001)* | 1 |
| TOTAL | 15 |

SECOND PROFESSIONAL YEAR

| Course | S.H. |
|---|------|
| Pharmacy Practice Lab III (46:116) | 2 |
| MNPC II: Pharmacodynamic Agents (46:131) | 3 |
| Pharmacokinetics/Biopharmaceutics (46:138) | 3 |
| Introduction to Therapeutics (46:149) | 2 |
| Therapeutics-Women's & Men's Health (46:154) | 2 |
| Pharmacology II (71:181) | 4 |
| Intro to Community Pharmacy Practice (46:002)** | 3 |
| TOTAL | 19 |

| Course | S.H. |
|--|------|
| Pharmacy Practice Lab IV (46:117) | 2 |
| MNPC III: Medicinal Neurochemistry (46:132) | 3 |
| Clinical Pharmacokinetics (46:170) | 3 |
| Therapeutics-Respiratory (46:155) | 2 |
| Therapeutics-Cardiovascular (46:156) | 2 |
| Clinical Practice Skills I (46:106) | 1 |
| Intro to Hospital Pharmacy Practice (46:008)** | 2 |
| Professional Electives | 3 |
| TOTAL | 18 |

THIRD PROFESSIONAL YEAR

| Course | S.H. |
|---|------|
| Pharmacy Practice Lab V (46:118) | 2 |
| Therapeutics-FEN, GI, Renal (46:158) | 2 |
| Therapeutics-Immunology, Hematology (46:159) | 2 |
| Clinical Practice Skills II (46:107) | 2 |
| Core Principles in PSE (46:130) | 3 |
| Drug Literature Evaluation (46:115) | 2 |
| Intro to Clinical Pharmacy Practice (46:003)* | 1 |
| Professional Electives | 4 |
| TOTAL | 18 |

| Course | S.H. |
|---|------|
| Pharmacy Practice Lab VI (46:119) | 2 |
| Therapeutics-Neurology, Psychiatry (46:164) | 2 |
| Therapeutics-Infectious Disease (46:165) | 2 |
| Clinical Practice Skills III (46:108) | 2 |
| PSE Selectives (will require 2 or more courses, see below) | 4 |
| Student Pharmacist Professionalism (46:004)*** | 1 |
| Professional Electives | 5 |
| TOTAL | 18 |
| PSE Selectives: May choose from: 46:398, 344,355,356,353, 357 or 173:291, and/or 6E:113 | |

FOURTH PROFESSIONAL YEAR

Summer

Advanced Practice Experiences 12 s.h.

Fall

Advanced Practice Experiences 12 s.h.

Spring

Advanced Practice Experiences 12 s.h.

*Students must complete one semester of 46:001 (during the P1 year) and 46:003 (during the P3 year), either fall or spring as assigned.

**Students will complete 46:002 and 46:008 during the summer before, winter break of and/or the summer after the P2 year.

***46:004 requires students to complete 32 hours of supervised service-learning and leadership/professional learning activities during their P1-P3 years.

Professional Electives may be acquired only during the four professional years, including summer session. A total of 12 s.h is required.

Pharm.D. CURRICULUM SUMMARY
(for Pharm.D. students matriculating Fall 2008 or later)

First Pre-Professional Year

| Course | S.H. | Course | S.H. |
|---|-------|-----------------------------------|-------|
| Rhetoric (10:1 or 10:3) | 4 | Rhetoric (10:2) | 4 |
| Principles of Chemistry I (4:11) | 4 | Principles of Chemistry II (4:12) | 4 |
| Calculus for Biological Sciences (22M:16) | 4 | Principles of Biology I (2:10) | 4 |
| Physics (29:8) If Needed [#] | 4 | General Education Electives | (3-6) |
| General Education Electives | (3-6) | TOTAL | 15-18 |
| TOTAL | 15-18 | | |

Second Pre-Professional Year

| Course | S.H. | Course | S.H. |
|---------------------------------|-------|--------------------------------------|-------|
| Organic Chemistry I (4:121) | 3 | Organic Chemistry II (4:122) | 3 |
| Human Anatomy (60:110) | 3 | Human Physiology (27:130) | 3 |
| Principles of Biology II (2:11) | 4 | Microbiology (61:112) | 4 |
| Microeconomics (6E:1) | 4 | Statistics (22S:XXX) but not 22S:002 | 3 |
| General Education Electives | (4) | General Education Electives | (5) |
| TOTAL | 14-18 | TOTAL | 13-18 |

[#]One year of high school physics or 29:8 must be completed with a laboratory

General Education Electives: 20 s.h. needed by the end of the Doctor of Pharmacy program to graduate, may be taken during summer session

FIRST PROFESSIONAL YEAR

Fall Semester

| Course | S.H. |
|---|----------|
| Pharmacy Practice Lab I (46:050) | 2 |
| Biochemistry for Pharmacy Students (99:162) | 4 |
| Pharmaceutics I: Solutions (46:123) | 4 |
| Introduction to Human Pathology (69:133) | 4 |
| Fundamentals of Evaluating Clinical Research (46:103) | <u>1</u> |
| TOTAL | 15 |

Spring Semester

| Course | S.H. |
|---|----------|
| Pharmacy Practice Lab II (46:051) | 2 |
| MNPC I: Biotechnology & Chemotherapy (46:128) | 3 |
| Pharmaceutics II: Solids & Semi-Solids (46:124) | 4 |
| Pharmacology I (71:180) | 3 |
| Social Aspects of Pharmacy Care (46:122) | 2 |
| Introduction to Pharmacy Practice (46:001)* | <u>1</u> |
| TOTAL | 15 |

SECOND PROFESSIONAL YEAR

| Course | S.H. |
|---|----------|
| Pharmacy Practice Lab III (46:116) | 2 |
| MNPC II: Pharmacodynamic Agents (46:131) | 3 |
| Pharmacokinetics/Biopharmaceutics (46:138) | 3 |
| Introduction to Therapeutics (46:149) | 2 |
| Therapeutics-Women's & Men's Health (46:154) | 2 |
| Pharmacology II (71:181) | 4 |
| Intro to Community Pharmacy Practice (46:002)** | <u>3</u> |
| TOTAL | 19 |

| Course | S.H. |
|--|----------|
| Pharmacy Practice Lab IV (46:117) | 2 |
| MNPC III: Medicinal Neurochemistry (46:132) | 3 |
| Clinical Pharmacokinetics (46:170) | 3 |
| Therapeutics-Respiratory (46:155) | 2 |
| Therapeutics-Cardiovascular (46:156) | 2 |
| Clinical Practice Skills I (46:106) | 1 |
| Intro to Hospital Pharmacy Practice (46:008)** | 2 |
| Professional Electives | <u>3</u> |
| TOTAL | 18 |

THIRD PROFESSIONAL YEAR

| Course | S.H. |
|---|----------|
| Pharmacy Practice Lab V (46:118) | 2 |
| Therapeutics-FEN, GI, Renal (46:158) | 2 |
| Therapeutics-Immunology, Hematology (46:159) | 2 |
| Clinical Practice Skills II (46:107) | 2 |
| Pharmaceutical Economics and Insurance (46:129) | 3 |
| Drug Literature Evaluation (46:115) | 2 |
| Intro to Clinical Pharmacy Practice (46:003)* | 1 |
| Professional Electives | <u>4</u> |
| TOTAL | 18 |

| Course | S.H. |
|--|----------|
| Pharmacy Practice Lab VI (46:119) | 2 |
| Therapeutics-Neurology, Psychiatry (46:164) | 2 |
| Therapeutics-Infectious Disease (46:165) | 2 |
| Clinical Practice Skills III (46:108) | 2 |
| Pharmacy Law and Ethics (46:104) | 2 |
| Pharmacy Management and Marketing (46:139) | 2 |
| Student Pharmacist Professionalism (46:004)*** | 1 |
| Professional Electives | <u>5</u> |
| TOTAL | 18 |

FOURTH PROFESSIONAL YEAR

Summer

Advanced Practice Experiences 12 s.h.

Fall

Advanced Practice Experiences 12 s.h.

Spring

Advanced Practice Experiences 12 s.h.

*Students must complete one semester of 46:001 (during the P1 year) and 46:003 (during the P3 year), either fall or spring as assigned.

**Students will complete 46:002 and 46:008 during the summer before, winter break of and/or the summer after the P2 year.

***46:004 requires students to complete 32 hours of supervised service-learning and leadership/professional learning activities during their P1-P3 years.

Professional Electives may be acquired only during the four professional years, including summer session. A total of 12 s.h is required.

Updated 08/12/09

COLLEGE OF PHARMACY CURRICULUM FOR PHARM.D. STUDENTS

Division of Pharmaceutics and Drug Disposition

| | |
|--|----------|
| 46:101 Pharmacy Projects | 1-3 s.h. |
| Basic and applied research problems of pharmaceutical interest. | |
| 46:110 Drug Delivery I | arr |
| 46:111 Drug Delivery II | arr |
| 46:123 Pharmaceutics I | 4 s.h. |
| Application of physical and chemical principles to formulation, preparation of liquid dosage forms, including solution, colloids, ointments, emulsions. Prerequisite: P1 standing | |
| 46:124 Pharmaceutics II | 4 s.h. |
| Properties of solids; formulation, preparation, evaluation of solid dosage forms.. Prerequisites: P1 standing 46:123 | |
| 46:138 Pharmaceutics III | 3 s.h. |
| Qualitative, quantitative description of kinetics of drug absorption, distribution, elimination, including physiological factors that influence each process; adjustment of dosing regimens for optimizing therapeutic drug levels in the body. Prerequisites: 46:123 and 46:124 | |
| 46:173 Parenteral Products and Technology | 2 s.h. |
| Knowledge and application of parenteral products and the technology used to compound and administer them Prerequisites: 46:51 and 46:123 | |

Division of Medicinal and Natural Products Chemistry

| | |
|--|--------|
| 46:128 Medicinal and Natural Products Chemistry I | 3s.h. |
| First of a three-course sequence; lectures on organic and inorganic medicinal and therapeutic agents of natural and synthetic origin; physical, chemical, biological, and biochemical properties as they relate to medicinal and therapeutic effects; comparative biological activity and toxicity; detoxification mechanisms; functional group chemistry; nomenclature; chemistry of radiodiagnostic and therapeutic agents, introduction to biopharmaceutical analysis. Prerequisites: 4:122, 99:162, and 61:112 and P1 standing | |
| 46:131 Medicinal and Natural Products Chemistry II Prerequisite: 46:128 | 3 s.h. |
| Medicinal chemistry of pharmacodynamic agents; introduction to peptides and proteins, thyroid hormone, diabetes, vaccines, gene therapeutics, NSAIDs, cardiovascular drugs, antihistamines, anticancer drugs; second of a three-course sequence. Prerequisites: 46:128 and P2 standing | |
| 46:132 Medicinal and Natural Products Chemistry III Prerequisite: 46:131 | 3 s.h. |
| Receptor site theory; steroids, lipids, and prostaglandins; sedatives and hypnotics; drugs of abuse; cholinergics; excitatory amino acids and anticonvulsants; major analgesics; adrenergics; psychotherapeutics; third of a three-course sequence. Prerequisites: 46:128, 46:131, and P2 standing | |

College of Medicine

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|--|--------|
| 69:133 Introduction to Human Pathology Prerequisite: admission to Pharmacy | 4 s.h. |
| 99:162 Biochemistry for Pharmacy Students Prerequisite: admission to Pharmacy | 4 s.h. |
| 71:180 Pharmacology I Pre or co-requisite 46:128 | 3 s.h. |
| 71:181 Pharmacology II Prerequisite 71:180 | 4 s.h. |

Department of Pharmacy Practice and Science

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| 46:001 Introduction to Pharmacy Practice | 1 s.h. |
| Exposure to the pharmacy profession through varied shadowing experiences in practice settings. Repeatable. Prerequisite: P1 standing | |

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| 46:002 Introduction to Community Pharmacy Practice (3 weeks) | 3 s.h. |
| Exposure to community pharmacy through activities focusing on drug distribution, legal requirements, communication, patient interaction; during breaks in P2 year. Repeatable. Prerequisite: P2 standing | |
| 46:003 Introduction to Clinical Pharmacy Practice (15 weeks) | 1s.h. |
| Clinical practice experience observing and participating in clinical activities with P4 students, faculty, and other health care providers. Repeatable. Prerequisite: P3 standing | |
| 46:004 Student Pharmacist Professionalism | 1 s.h. |
| Participation in activities promoting leadership and professional learning, and service learning; required participation P1 through P3 years. Repeatable | |
| 46:005 Dean's Pharmacy Forum I | 1-2 s.h. |
| Contemporary issues in pharmacy practice, pharmacy education, and health care. | |
| 46:006 Dean's Pharmacy Forum II | 1-2 s.h. |
| Contemporary issues in pharmacy practice, pharmacy education, and health care. | |
| 46:007 Career Pathways in Pharmacy | 1 s.h. |
| Career preparation through writing, speaking, reading, and listening; writing resumes, curriculum vitae, cover letters; interviewing techniques; electronic portfolios; web-based career information; guest speakers from pharmacy associations, major chains; workshop approach. Prerequisite: P3 standing | |
| 46:008 Intro to Hospital Pharmacy Practice | 2 s.h. |
| Exposure to hospital pharmacy through activities focusing on drug distribution, legal requirements, communication, patient interaction; during breaks in P2 year. Repeatable. Prerequisite: P2 standing | |
| 46:011 PDAs and Electronic Drug Information Sources | 2 s.h. |
| Introduction to Palm OS PDA and web-based drug information sources for pharmacy students. | |
| 46:012 Survey of Basic Pharmaceutical Sciences | 1-2 s.h. |
| Aspects of drug discovery and development; seminar with guest speakers from industry. Prerequisite: admission to Pharm.D. program | |
| 46:013 Seminars in Ambulatory Care Pharmacy | 2 s.h. |
| Additional experience in the practice of clinical pharmacy; focus on key therapeutic areas where ambulatory care clinical pharmacists currently have a significant impact improving patient care, including anticoagulation management, hyperlipidemia management, and diabetes management; opportunity to develop expertise in clinical decision making, improve problem solving abilities, and continued development in writing and oral presentation skills. Prerequisites: 46:154, 46:156, and P1 standing | |
| 46:014 Special Topics in Acute Care | 2 s.h. |
| Pharmacology for common but varied acute care medicine topics; review of disorder, therapeutic goals, treatment plans, patient counseling, monitoring patient outcomes; lecture or case-based classes; acute and chronic renal failure; peritoneal and hemodialysis; diabetic ketoacidosis; rabies; shock, vasopressors, fluids; ACLS; deep venous thrombosis, stress ulcer prophylaxis; burns; sedation, neuromuscular blockage; opioids; multiple sclerosis. Prerequisites: BLS certification, 46:149, 46:154, 46:155, 46:156, 46:158, 46:159. Corequisites: 46:164 and 46:165 | |
| 46:018 Journey Through Illness | 1 s.h. |
| Chronic illness from a patient's perspective; discussion with patients. | |
| 46:50 Pharmacy Practice Lab I | 2 s.h. |
| Practical application of scientific and clinical knowledge used in the provision of pharmaceutical care; activities include communication with patient and members of the healthcare team, prescription compounding, pharmacy calculation, and use of drug information resources. Prerequisite: P1 standing | |
| 46:51 Pharmacy Practice Lab II | 2 s.h. |
| Practical application of scientific and clinical knowledge used in the provision of pharmaceutical care; activities include prescription compounding, pharmacy calculations, communication skills, prescription counseling, and application of drug information skills through secondary searching of the primary literature. Prerequisites: 46:50 and P1 standing | |
| 46:66 Pharmacy Computer Systems | 2 s.h. |
| Fundamentals of data storage and retrieval for pharmacy information systems. | |

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| 46:102 Pharmacy Workshop Independent study | arr. |
| 46:103 Fundamentals of Evaluating Clinical Research Prerequisite: admission to Pharmacy Basic concepts for evaluation of clinical trials published in primary biomedical and pharmacy literature; design, methods, outcomes, statistical analysis, and generalizability of results. Prerequisite: P1 standing | 1 s.h. |
| 46:104 Pharmacy Law and Ethics Legal and moral aspects involved in the practice of pharmacy. Prerequisite: P1 standing | 2 s.h. |
| 46:105 Alternative and Complementary Medicine Prerequisite: P4 standing. Same as 78:210, 96:182 | arr. |
| 46:106 Clinical Practice Skills I Exploration and development of professional skills required for delivery of patient care; patient assessment, clinical decision making, communication (written and oral), teamwork. Corequisite: 46:155 | 1 s.h. |
| 46:107 Clinical Practice Skills II Continuation of 46:106; development of professional skills required for delivery of patient care; patient assessment, clinical decision making, communication (written and oral), teamwork. Prerequisite: P2 standing. Corequisite: 46:164 | 2 s.h. |
| 46:108 Clinical Practice Skills III Continuation of 46:107; development of professional skills required for delivery of patient care; patient assessment, clinical decision making, communication (written and oral), teamwork. Prerequisite: P3 standing. Corequisite: 46:164 | 2 s.h. |
| 46:115 Drug Literature Evaluation Study design methods, drug information techniques and skills; skill development in critical analysis and evaluation of published reports of drug use and drug trials, assessment of validity of reports, trials and studies, assessment of generalizability of results to individual patients and patient groups; laboratory experience in biomedical literature analysis, evaluation. | 2 s.h. |
| 46:116 Pharmacy Practice Lab III Practical application of scientific and clinical knowledge in the provision of patient centered care; activities include patient self-care assessment and counseling, prescription interpretation and counseling, compounding, prescriptions, applications of drug information, use of patient screening tools, physical assessment, and pharmacy law. Pre-or corequisites: 46:149 and 46:154 | 2 s.h. |
| 46:117 Pharmacy Practice Lab IV Practical application of scientific and clinical knowledge in the provision of patient centered care; activities include providing medication therapy management for patients, patient counseling, and application of drug information skills. Pre- or corequisites: 46:155 and 46:156 | 2 s.h. |
| 46:118 Pharmacy Practice Lab V Practical application of scientific and clinical knowledge in the provision of patient centered care; activities include providing medication therapy management for patients, patient counseling, and application of drug information skills. Pre- or corequisites: 46:158 and 46:159 | 2 s.h. |
| 46:119 Pharmacy Practice Lab VI Practical application of scientific and clinical knowledge in the provision of patient centered care; activities include medication therapy management for patients, patient counseling, and application of drug information skills. Pre- or corequisites: 46:164 and 46:165 | 2 s.h. |
| 46:121 Substance Abuse Themes and concepts in substance abuse and treatment; stimulants, depressants, alcohol, opiates, hallucinogenics, steroids; drug abuse prevention and treatment, including dual diagnosis, from cradle to the grave. | 3 s.h. |
| 46:122 Social Aspects of Pharmacy Care Conceptual issues related to social and behavioral components of pharmacy care; social construction of health and illness, medication use process, health communications, cultural competence, public health. | 2 s.h. |
| 46:126 International Perspectives: Xicotepec Introduction to providing service to a community in a less developed country; student projects intended to improve community life in Xicotepec. Same as 53:126 | 3 s.h. |
| 46:127 Pharmaceuticals Management for Underserved Populations | 3 s.h. |

Experience analyzing problems and developing strategies based on real-world drug management cycle issues; the role of WHO-TRIPS, government, and NGOs in the selection and use of pharmaceuticals.

46:129 Pharmaceutical Economics and Insurance 3 s.h.
Financing of health care in the U.S.; insurance and reimbursement in pharmacy and pharmacoeconomics.

46:130 Core Principles in Pharmaceutical Socioeconomics 3 s.h.
Organization and financing of the U.S. health care system, role of pharmaceuticals in health care, role of pharmacists in health care, patient influence on health care decisions. Prerequisite: a microeconomics course

46:139 Pharmacy Management and Marketing 2 s.h.
Application of management principles to pharmacy practice; marketing techniques for pharmacy practice; operations, human resources, finance, quality improvement and service marketing management.

46:146 End-of-Life Care for Adults and Families 2-4 s.h.
End-of-life issues in care of adults, older adults, and their families. Prerequisites: 96:135 and 96:136, or R.N. student standing, or consent of instructor. Same as 50:147, 96:147, 153:147

46:149 Introduction to Therapeutics/Special Population 2 s.h.
Treatment modalities that promote health and treat common diseases; common laboratory and diagnostic procedures used to diagnose and monitor diseases; basic types of adverse drug reactions. Prerequisite: P2 standing

46:154 Endocrinology, Ophthalmology, Women's and Men's Health Therapeutics 2 s.h.
Pharmacotherapy for endocrine and ophthalmologic disorders; review of disorders, treatment goals, treatment plans, patient counseling, monitoring of patient outcomes. Prerequisite: P2 standing

46:155 Respiratory and Dermatologic Therapeutics 2 s.h.
Pharmacotherapy for respiratory and dermatology disorders; review of disorders, treatment goals, treatment plans, patient counseling, monitoring of patient outcomes. Prerequisite: P2 standing

46:156 Cardiovascular Therapeutics 2 s.h.
Pharmacotherapy for cardiovascular disorders; review of disorders, treatment goals, treatment plans, patient counseling, monitoring of patient outcomes. Prerequisite: P2 standing

46:158 FEN, GI and Renal Therapeutics 2 s.h.
Pharmacotherapy for fluid/electrolyte/nutrition disorders; gastrointestinal and renal diseases; review of disorders, treatment goals, treatment plans, patient counseling, monitoring of patient outcomes. Prerequisite: P3 standing

46:159 Rheumatology, Immunology, Hematology, Oncology and Transplantation Therapeutics 2 s.h.
Pharmacotherapy for rheumatology, immunology, hematology, oncology, and transplantation; review of disorders, treatment goals, treatment plans, patient counseling, monitoring of patient outcomes. Prerequisite: P3 standing

46:164 Neurology/Psychiatry Therapeutics 2 s.h.
Pharmacotherapy for psychiatric and neurologic disorders; review of disorders, therapeutic goals, treatment plans, patient counseling, monitoring of patient outcomes. Prerequisite: P3 standing

46:165 Infectious Disease Therapeutics 2 s.h.
Pharmacotherapy for infectious diseases; review of disease, therapeutic goals, treatment plans, patient counseling, monitoring of patient outcomes. Prerequisite: P3 standing

46:169 Introduction to Pharmacogenomics 2 s.h.
Introduction to pharmacogenetics in pharmacy; laboratory techniques, application of pharmacogenetics to clinical pharmacy.

46:170 Clinical Pharmacokinetics 3 s.h.
Application of pharmacokinetics to the clinical setting. Prerequisite: P3 standing

46:171 Nonprescription Pharmacotherapy 2 s.h.
Introduction to nonprescription medications; development of patient assessment and consultation skills; understanding of pharmacist's role in patient self-care.

46:174 Pharmacy Service Development 3 s.h.

Issues and approaches used to develop pharmacy services; planning, service design, payment, promotion, quality improvement. Prerequisite: P3 standing or consent of instructor

46:176 Immunization Theory and Practice 2 s.h.

Preparation for administering routine immunizations safely and responsibly under specific order of a prescriber; preparation for administering vaccinations under protocol according to rules of the Iowa Boards of Pharmacy and Medical Examiners. Prerequisites: 46:159 and P3 standing

46:253 Elective: Economics and Treatment Choice 2 s.h.

Introduction to patient and population pharmacoeconomic modeling; clinical decision, cost-minimization, cost-effectiveness, cost-utility, and cost-benefit analysis.

46:344 PSE Selective: Insurance and Reimbursement 2

s.h.

Insurance and reimbursement for prescription drugs and pharmacist services; related policy issues. Prerequisite: P3 standing

46:353 PSE Selective: Economics and Treatment Choice 2 s.h.

Patient and population pharmacoeconomic modeling; clinical decision analysis, cost-minimization analysis, cost-effectiveness analysis, cost-utility analysis, cost-benefit analysis. Prerequisite: P3 standing

46:355 PSE Selective: Social Pharmacy 2 s.h.

Behavioral and social aspects of drug use in society; therapeutic uses of medications, pharmaceutical care systems, pharmacy-related health behaviors. Prerequisite: P3 standing

46:356 PSE Selective: Marketing and Healthcare 2 s.h.

Marketing concepts and principles applied to health care, especially pharmacy and pharmaceuticals; marketing management, patient behavior, marketing plan, marketing mix, promotion. Prerequisite: P3 standing

46:357 Topics in Community Pharmacy Management 2 s.h.

Focus on building practical knowledge and understanding of business principles. Prerequisite: 46:130 or consent of instructor

46:377 Health Disparities and Cultural Competence 2-4 s.h.

Characteristics, causes, and effects of health disparities in the U.S. health care system; foundation for development of knowledge, attitudes, and skills required of culturally competent health care providers; definitions and models of cultural competence, characteristics of culturally effective practitioners and workplaces; health disparities among specific populations, evidence of cultural competence as a remedy; taking a culturally appropriate history; working with interpreters, legal and professional imperatives for cultural competence. Same as 96:125, 172:135

46:398 PSE Selective: Hospital Pharmacy Practice Management 2 s.h.

Organizational structure of pharmacy departments in hospitals and health care systems; models for delivery of pharmaceutical care; pharmacy's role in drug-policy decision making; provision of drug information; clinical and distributive pharmacy services; control of pharmacy and pharmacy costs; use of information technology and automation for service delivery; supervisory management; quality improvement. Prerequisite: P3 standing

Advanced Pharmacy Practice Experiences

46:136 Elective: Academic Rotation 4 s.h.

Practice experience delivering pharmacy education with a College of Pharmacy faculty member.

46:140 Elective: Ambulatory Care Rotation 4 s.h.

Clinical experience providing pharmaceutical care in specialty outpatient settings.

46:141 Elective: Community Management Rotation 4 s.h.

Practice exposure to community pharmacy operations and management at the store, district, or corporate level.

46:142 Elective: Compounding/Complimentary Alternative Medicine Rotation 4 s.h.

Clinical work in a community setting with focus on team approach; experience developing extemporaneous compounds to optimize patient care and/or integrating traditional and nontraditional medicine.

46:143 Elective: Critical Care Medicine Rotation 4 s.h.

Practice experience providing pharmaceutical services to intensive care unit patients.

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| 46:144 Elective: Insurance and Reimbursement | 4 s.h. |
| Insurance and reimbursement for prescription drugs and pharmacist services; related policy issues. | |
| 46:161 Elective Drug Information Rotation | 4 s.h. |
| Practice experience applying drug information knowledge to service and research projects. | |
| 46:178 Hospital Pharmacy Rotation | 4 s.h. |
| Instruction and practical experience in various components of hospital pharmacy; emphasis on hospital organization, inpatient and outpatient services, IV additives, unit dose, clinical services. | |
| 46:179 Community Pharmaceutical Care Rotation | 4 s.h. |
| Clinical experience in the community setting; emphasis on deliver of pharmaceutical care. | |
| 46:180 Acute Care Medicine Rotation | 4 s.h. |
| Clinical experience applying therapeutic skills for the pharmacotherapeutic management of patients on general medicine or specialty inpatient areas.. | |
| 46:181 Elective: Family Medicine Rotation | 4 s.h. |
| Clinical practice experience applying primary care therapeutics in family medicine practice settings. | |
| 46:182 Elective: Pediatrics Rotation | 4 s.h. |
| Clinical experience in drug therapy management of general and specialty pediatric patients. | |
| 46:183 Community Pharmacy Rotation | 4 s.h. |
| Practicum experience in community pharmacy; drug distribution, communication with patients, management functions. | |
| 46:184 Elective: Psychiatry Rotation | 4 s.h. |
| Clinical experience in the rational use of psychiatric drugs in treatment of psychiatric disorders. | |
| 46:185 Elective: Neurology Rotation | 4 s.h. |
| Clinical experience in the pharmacotherapeutic and pathophysiologic considerations of neurological disorders. | |
| 46:186 Elective: Surgery Rotation | 4 s.h. |
| Clinical experience in drug therapy management on a surgery unit. | |
| 46:187 Elective: Nuclear Pharmacy Rotation | 4 s.h. |
| Practical experience in the handling and clinical use of radiopharmaceuticals. | |
| 46:188 Elective: Pharmacy Practice Underserved Population Rotation | 4 s.h. |
| Opportunity to learn the best practices for pharmaceutical management; approaches to enhance access to and appropriate use of medicines in underserved and resource-limited environments. | |
| 46:189 Elective: Pharmacy Rotation | 4 s.h. |
| Selected practice experiences in various pharmacy practice settings. | |
| 46:192 Elective: Long Term Care Rotation | 4 s.h. |
| Practice in consulting and providing services to varied long-term patient care environments. | |
| 46:193 Elective: Home Health Care Rotation | 4 s.h. |
| Clinical experience in the team approach to health care delivery, including total parenteral nutrition, chemotherapy, intravenous antibiotics, lab analysis, hospice care, and pain management. | |
| 46:194 Elective: Managed Care Rotation | 4 s.h. |
| Practice experience in providing pharmaceutical care or pharmacy-related services in a managed care organization. | |
| 46:196 Ambulatory Care Rotation | 4 s.h. |
| Clinical experience in providing pharmaceutical care in outpatient clinic settings. | |
| 46:197 Elective: Hematology/Oncology Rotation | 4 s.h. |
| Drug therapy management of oncology patients and patients with hematologic malignancies, aplastic anemia, sickle cell disease, hemophilia. | |

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| 46:198 Elective: Hospital Pharmacy Practice Management | 2.sh. |
| Practice management issues; organizational structure, service delivery models, drug policy, drug and pharmacy costs, use of technology and informatics, supervision, quality improvement. | |
| 46:199 Elective: Research Rotation | 4 s.h. |
| Practice experience in basic pharmaceutical or clinical research; proposal, study design, data collection and analysis, presentation of the results. | |
| 46:300 Elective: Emergency Medicine Rotation | 4.s.h. |
| 46:301 Elective: Hospital Management Rotation | 4.s.h. |
| Practice experience in hospital pharmacy operations and management. | |
| 46:302 Elective: Infectious Disease Rotation | 4 s.h. |
| Clinical experience providing pharmacotherapeutic management of patients receiving antimicrobial medications. | |
| 46:303 Elective: Medication Use Evaluation Rotation | 4 s.h. |
| Practical experience in drug use evaluation to improve patient outcomes. | |
| 46:304 Elective: Pharmacy Industry Rotation | 4.s.h. |
| Practice experience with a pharmacy regulatory body. | |
| 46:305 Elective: Pharmacy Regulatory Rotation | 4 s.h. |
| Pharmacy experience with a pharmacy regulatory body. | |
| 46:306 Elective: Professional Association Rotation | 4 s.h. |
| Practice experience in professional association management environment at the state or national level. | |
| 46:307 Elective: Veterinary Pharmacy Rotation | 4 s.h. |
| Practice experience in managing drug therapy for animals. | |
| 46:308 Elective Advanced Community Pharmacy Rotation | 4 s.h. |
| Community pharmacy experience emphasizing patient-centered care. | |

Electives in the Pharmacy Curriculum

Students must complete 20 semester hours (s.h.) of general education electives and 12 s.h. of professional electives to meet degree requirements.

General Education Electives

What are General Education Electives?

Prior to being admitted to the College of Pharmacy, students take courses to fulfill the University of Iowa College of Pharmacy's pre-pharmacy requirements. These requirements include specific courses in chemistry, biology, microbiology, anatomy, rhetoric, physics, microeconomics, statistics, and physiology. Ideally, all students accepted for admission will have completed 20 s.h. of general electives by the time they begin the P1 year. However, a student who has satisfied as few as 12 s.h. of this requirement may enter the College. For graduation, 20 s.h. must be completed. General Education Electives are courses of the student's choice, usually in liberal arts educational departments. Courses in the humanities, social sciences, behavior sciences, etc. are acceptable. Additional math and science, activity-based classes, and vocational/technical classes are not accepted.

How do students know they have completed General Educational Electives?

Please contact Patricia McCormick in the Office of Academic Affairs with questions regarding electives.

Professional Electives

Definition of College of Pharmacy Professional Electives

The College of Pharmacy has a specified set of courses every student must take to graduate with a Doctor of Pharmacy degree. Additionally, all Doctor of Pharmacy students must take courses that enhance and expand professional and career goals. These professional enhancement courses are called professional electives.

What is the purpose of Professional Electives?

Professional Electives allow students to pursue their own career interests while studying within the Doctor of Pharmacy degree program. Students may use these courses to concentrate in some area of interest and broaden their education. Professional Electives will allow students to choose course work that will prepare them for traditional and emerging areas of pharmacy practice.

How many professional electives do students take?

Students must take 12 semester hours of Professional Electives.

When do students take Professional Electives?

These courses must coincide with your pharmacy education and therefore can be taken only after a student has enrolled in the College of Pharmacy. Courses taken before enrolling in the College of Pharmacy, even if a student has a prior degree, will not be accepted as Professional Electives. Students may also take professional electives during their “bye” or vacation period in the last academic year.

Suggested Professional Elective Credit Hours by Semester

| | Fall | Spring |
|-----------|----------------|----------------|
| P1 | 0 hours | 0 hours |
| P2 | 0 hours | 3 hours |
| P3 | 4 hours | 5 hours |
| P4 | 0 hours | 0 hours |

Where do Students take Professional Electives?

It is expected that some of the Professional Electives will be courses taught in the College of Pharmacy, while others will be taught outside the College. Currently, students may take courses in any of the University of Iowa Colleges and any other higher education institution from which the University of Iowa accepts transfer credits.

Limited Experiential Courses Accepted as Professional Electives

Courses that are experiential in nature, such as physical education, sports, and fine arts performance classes are generally not accepted. These courses may be petitioned with a statement of justification to Patricia McCormick in the Office of Academic Affairs.

Correspondence, Distance-Learning and Online Courses

Students may take correspondence, distance-learning and/or online courses to satisfy Professional electives, as long as they are recognized as courses in the University or can be accepted for transfer.

PSE Selectives (for students matriculating before Fall 2008)

PSE Selectives are chosen from a limited set of electives in the social, behavioral, economic and administrative aspects of pharmacy. These generally follow the introductory PSE Core course taught in the P3 fall semester.

During the Spring semester of the P3 year, each student is to take from a limited set of options two courses for two credit hours each. Students may take some PSE Selectives, depending on pre-requisites, before their P3 Spring semester.

Advanced Pharmacy Practice Experience Electives**What are Advanced Practice Experience Electives?**

During the final year of the Doctor of Pharmacy curriculum, students gain experience in various pharmacy practice areas. These are referred to as Advanced Practice Experiences. Required rotations and elective rotations are selected by students from a menu of options.

Can a student use an Advanced Practice Experience as a Professional Elective?

Yes. During the Advanced Practice Experience year each student has a “bye” or vacation period and may select an advanced practice experience elective as a professional elective during this time.

COLLEGIATE POLICIES

Absences

Policies regarding grading, excused absences, classroom behavior, missed exams, etc., are course specific and are determined by the course coordinator. Read the course syllabus and know exactly what is expected in each course. Any questions should be directed to the course coordinator.

Students are expected to observe a policy of consistent, timely attendance. It is the student's obligation to notify the instructor promptly of any absences. Students may be asked to provide documentation to verify reasons for absence using the "Explanatory Statement for Absence from Class" form from the Office of the Registrar at <http://www.registrar.uiowa.edu/forms/absence.pdf>.

It is the student's responsibility to notify the course coordinator if s/he will be absent from class or miss a scheduled examination for any reason. It is also the student's obligation to contact the instructor in order to make up any work which may have been missed during the absence. The course coordinator is responsible for deciding whether to excuse an absence and/or allow make up of assignments, quizzes, and/or examinations. If the student is unable to reach the instructor or the course coordinator, or the student will be likely to miss a number of classes, the Office of Academic Affairs may be contacted and they will relay a message from a student to the coordinator. Students must still contact the coordinator directly when they are able.

University regulations require that students be allowed to make up examinations that have been missed due to illness, mandatory religious obligations, or other unavoidable circumstances or University activities. These would include religious holy days, attendance at a professional organization meeting, weather creating hazardous driving conditions for commuting students verifiable by canceling of the public schools, and participation on athletic teams.

Academic Distinction and Recognition

The University recognizes high scholastic achievement by awarding degrees "with distinction", "with high distinction", and "with highest distinction." Pharmacy graduates with a UI and/or cumulative grade point (the lower of the two grade point averages is used) of 3.5-3.74, 3.75-3.99, and 4.00 are recognized accordingly. This determination is based on grades earned by the beginning of the final semester of enrollment.

Academic Misconduct

The following policies regarding Academic Misconduct are a modification of The University of Iowa Policies and Regulations Affecting Students.

1. Examination Policy
 - a. The faculty recommends that examinations not be administered earlier than the announced scheduled time. A final decision on this matter is left with the instructor(s). Students permitted by an instructor to take an examination earlier than the scheduled time must not communicate the nature or content of the examination in any way to any person. Any violation of this policy by a student will be regarded as cheating and the student may be subject to a penalty as defined in this Handbook under the section Disciplinary Action. Make-up examinations are given at the discretion of the instructor(s).
 - b. All cases of plagiarism and cheating in the College of Pharmacy shall be reported for action to the Office of the Dean of the College, through the divisions, and the Associate Dean for Professional Education, with a statement of the necessary facts. The instructor and the division concerned may also submit recommendations in each case for appropriate disciplinary action.

A Note on Plagiarism

Plagiarism is copying words or ideas from other sources and presenting them as your own. Although they may not explicitly warn you about it in class, most teachers consider plagiarism to be a very serious offense. If you use the exact words of another, you must put quotation marks around them and use a footnote. If you present someone else's ideas in your own words, you do not need to use quotations marks, but you do need to footnote the statement. Lifting ideas and presenting them as your own is plagiarism. Although students often believe they can get away with copying, most college instructors can spot plagiarism easily. They can usually tell by the writing style or the ideas that the work is not the student's own. If you are unsure whether or not you are plagiarizing material, check with a tutor or your instructor.

2. Disciplinary Action
 - a. By the Instructor. The individual instructor may reduce the student's grade, including the assignment of the grade of "F" in the course. A report of this action should always be sent to the Associate Dean's Office.
 - b. By the Associate Dean for Professional Education. The Associate Dean for Professional Education, after counsel with the Academic Performance Committee, may recommend to the Dean the following or other penalties as the offense may warrant-disciplinary probation, assessment of additional hours for the professional degree, suspension from the college or recommendation of expulsion from the University by the president.
3. Referral to the Office of the Vice President for Academic Affairs
 - a. By the Dean. In cases of flagrant or repeated offenses, or for other reasons deemed sufficient by the Dean of the College, the case and records may be referred to the Office of the Vice President for Academic Affairs for appropriate action.
 - b. By the student. If the student feels that the penalty imposed by the Dean is unjust, the student may request a review by the Office of the Vice President for Academic Affairs.

Academic Probation and Dismissal Policy

The grade report of each student in the college is evaluated after each regular semester and any student with a semester, pharmacy, and/or total cumulative grade-point average below 2.0 will be placed on academic probation. A student who receives a grade of "F" in any course will be placed on academic probation. Although some probationary action typically precedes dismissal, a student may be dismissed for an extremely poor semester. Poor semester is defined as below 1.75. The pharmacy grade point average is computed from the grades earned in all of the required courses with the exception of general education and/or professional electives a student has completed while enrolled in the College of Pharmacy. If a student takes a required course at another institution while enrolled in the college of pharmacy, the grade earned from that course is not computed in the Pharmacy GPA. Students on academic probation are encouraged to seek academic help from their course instructor and advisor.

Students are returned to good academic standing (removed from probation) when their semester, pharmacy and total cumulative GPAs are at least 2.0.

A student who is placed on academic probation and who doesn't earn a Pharmacy grade point average of at least 2.0 in the following semester is dismissed from the college. A student who is placed on probation and earns at least a 2.0 semester pharmacy grade point average in the next semester, but still is not in good academic standing, may be given one additional semester to return to good academic standing. A student who is dismissed from the college may appeal that decision to the Academic Performance Committee.

In order to graduate, a student must have completed the necessary courses and have pharmacy, semester, and total cumulative grade point averages of at least 2.0.

Students dismissed from the college for poor scholarship may petition the Associate Dean for Professional Education for permission to reenroll after an interval of at least two regular semesters. The petition must state specific reasons why it is reasonable that his/her academic performance will improve and must also include a plan for returning to good academic standing. A student permitted to reenroll under provisions of this paragraph may be dismissed at any time if his/her academic record is unsatisfactory.

Adding/Dropping

In order to add a class after the semester has begun, please see Patricia McCormick in Room 127 PHAR. To drop a course, you must come to Room 127 PHAR, Office of Academic Affairs.

Basic Life Support (CPR) Requirements

All pharmacy students must have training in basic life support, including infant, child & adult CPR. This must be achieved before the first semester in the program and must be kept current until completion of the program.

Calculation of Pharmacy Grade Point Average

The pharmacy grade point average is computed with the required pharmacy classes (excluding general and professional electives) that are taken while enrolled in the College of Pharmacy.

Criminal Background Check

All students are required to have a criminal background check. A processing fee of \$50 will be charged to each student.

Duplication

Duplication occurs when you: (a) take the same course more than once or (b) take a course that duplicated the content of a satisfactorily completed course. Hours earned by duplication do not count toward the total number of hours for degree. Grades for both courses, however, are used in computing the overall cumulative grade point average.

Electronic Course Evaluation Policy

Students are expected to complete on-line course and instructor evaluations as part of their professional commitment to The University of Iowa College of Pharmacy. Student feedback on teaching performance provides important information for assessment and improvement of instruction.

Students are responsible for completing course and instructor evaluations for all their courses using web-based evaluation forms administered through E*Value.

Email notice is delivered to students when evaluations are open and available for completion. Course evaluations are to be completed at the end of the course meeting period. Instructor evaluations are to be completed at the end of the instructors' lecture sequence.

Evaluations are designed to be brief with a limited number of questions, but do provide opportunity for written comments on both courses and instructors.

E*Value does allow for tracking of completed evaluations but individual responses to course and instructor evaluations are confidential and anonymous. Non-compliant students will receive written notice from the Office of Academic Affairs.

Financial Aid

Financial aid is intended to assist students in financing their education when family and personal resources are not adequate to meet their total educational cost. Financial aid consists of scholarships, grants, loans and part-time employment. The University of Iowa makes every effort to assist students with limited financial resources in obtaining needed funds. For further information The Office of Student Financial Aid can be reached at www.uiowa.edu/financial-aid. For more detailed information visit www.pharmacy.uiowa.edu/admissions/finance.htm.

Grade Reports

You can access your grade report through ISIS (Iowa Student Information Services), on any computer at <http://isis.uiowa.edu>.

Graduation

Graduation from the college requires that a student successfully complete all required courses including 20 s.h. of general education electives and 12 s.h. of professional electives. The pharmacy grade point average and the total cumulative grade point average must be at least 2.00.

Guided Independent Study

Pharmacy students may enroll in general education courses by correspondence. The Division of Continuing Education offers Guided Independent Study courses. If a student fails a course taken in residence at The University of Iowa he/she may not make up the work by taking that course by correspondence. A student on academic probation may not register for a course by correspondence. The maximum number of hours that may be earned through correspondence study is nine (9).

Health Screening Requirements

All pharmacy students must have hospitalization and health insurance. This may be provided through a personal policy or through plans available through The University of Iowa.

In order to detect and prevent communicable diseases that can be transmitted to patients, health personnel, faculty and students, all entering pharmacy students must provide entrance health screening, which may be done by your own physician or at The University of Iowa Student Health Services. This includes:

- The provision of a medical history.
- A health evaluation (physical) completed within the year before a student enrolled in the College of Pharmacy.
- Proof of immunization against measles and rubella and chicken pox.
- Hepatitis B vaccine (must be completed by the end of the second semester of the first year). Students are urged to complete this requirement as soon as possible.
- Annual TB skin tests.

Students will not be able to register for classes if these requirements are not met.

Incomplete (I)

An incomplete allows you more time to finish a course. Not all instructors grant incompletes. Incompletes may be granted if

- the unfinished portion of your work is small
- reasons for the unfinished work are acceptable to your instructor
- your standing in the course is satisfactory.

Internship

The pharmacy board in almost every state requires a certain number of hours of internship for licensure. This internship is usually spent in a community or hospital pharmacy, under the supervision of a licensed preceptor. The Iowa Board of Pharmacy requires each candidate for licensure to complete 1500 hours of internship. Our academic program is recognized for 1250 of the 1500 hours, thus leaving 250 hours to be satisfied through internship in a licensed community or hospital pharmacy. A student must be a licensed intern in Iowa by the beginning of the second semester of the P1 year. An intern will not receive credited internship hours until he/she has successfully completed one semester in the College of Pharmacy. Please see http://www.state.ia.us/ibpe/pharmacist_interns/index.html for detailed information regarding internship requirements.

Liability Insurance

All pharmacy students must carry liability insurance. The college makes every effort to obtain this insurance at nominal rates. Coverage may be obtained for \$1,000,000 or \$2,000,000 per occurrence. The cost of satisfying this requirement is paid by the College of Pharmacy.

Licensure

Students who have been convicted of a felony may not be able to obtain a license to practice pharmacy. If this is a concern, please contact the Iowa Board of Pharmacy or appropriate Board office.

Maximum Semester Schedule

A course schedule of more than 20 semester hours (including independent study) for a semester or 12 semester hours for a summer session requires approval of the Associate Dean for Professional Education.

Midterm Delinquencies

Students earning marks of "D" or "F" in courses are notified by mail around the 10th week of class concerning their delinquencies. Copies are also sent to your academic advisor.

Pass-Nonpass (P-N)

Electives may be taken on a pass-nonpass basis. Written permission of the advisor, course instructor and dean must be obtained by the student. A student may not earn more than 10 semester hours of P-N credit while enrolled in the College and must be in good academic standing (not on probation) in order to be eligible for the P-N option. Please see the current Schedule of Courses for directions for registering for a course on a P-N basis.

Photographs

Senior photographs are taken on the Mandatory P4 Assessment day by Creative Media Group, 1185 Westlawn, 335-7700. These are for the class photo panel located in the LRC.

Policies and Regulations Affecting Students

The University annually publishes "Policies and Regulations Affecting Students." This document describes and defines such matters as the "Student Bill of Rights, University Policy on Human Rights, Code of Student Life, Policies Related to Students Rights and Responsibilities, Policy on Sexual Harassment and Policy Regarding the

Use of Drugs." That document also describes "Judicial Procedure for Alleged Violations of the Code of Student Life." For more information refer to <http://student-services.uiowa.edu/students/policies/index.php>.

Policy for Complaints Relating to the College of Pharmacy Doctor of Pharmacy Educational Program

Any person may file a formal complaint to the University of Iowa College of Pharmacy regarding its Doctor of Pharmacy Program. Complaints may include, but are not limited to, admissions policies, inappropriate faculty or student conduct, inequities in grading, and/or failure to comply with collegiate policy. It is the responsibility of the Associate Dean for Professional Education to manage and provide responses to formal complaints about the Doctor of Pharmacy Program.

The College of Pharmacy encourages persons with complaints about the Doctor of Pharmacy educational program to seek informal resolution of their complaints prior to initiating a formal process.

Policy on Pharmacy Student Educational Activities Outside The United States

Students participating in any College of Pharmacy related educational activity that will in whole or in part occur outside the United States MUST contact the University of Iowa Office of Study Abroad at least 15 weeks prior to the experience to obtain all necessary clearances, information on required or recommended immunizations (if applicable) and other travel related information that might be relevant from the University and/or the United States state department. Written evidence of complete compliance with all relevant university policies must then be presented to the Office of Academic Affairs no later than 5 weeks in advance of the intended departure date.

Procedures for Formal Complaints

To initiate a formal complaint, one must provide a written, signed and dated statement and provide full contact information of the person submitting the complaint. If this is a student complaint related to a course or faculty action, a statement of actions taken, per collegiate policy, to informally resolve the complaint must be included.

The complaint policy is available at <http://www.pharmacy.uiowa.edu/doctorof/policies.htm>. Complaints must be submitted to the attention of the Associate Dean for Professional Education, 127 PHAR, College of Pharmacy, The University of Iowa, Iowa City, IA 52242.

Formal Complaints will be reviewed upon receipt by the Associate Dean or designated Office of Academic Affairs staff member and referred to the appropriate collegiate committee or administrative office within the College or University for information, advice and/or response. Complaints may require meeting or hearings with the complaining party or other members of the collegiate or university community. The person submitting the complaint will receive a response or update on its status within 60 days. All effort will be made to provide timely responses to time sensitive complaints.

Completed complaint forms will be kept in a locked file.

Outcomes of complaints that result in decisions by College of Pharmacy Committees may be appealed to the College of Pharmacy Associate Dean for Professional Education. Complaint actions or decisions by the Associate Dean for Professional Education may be appealed to the Dean of the College of Pharmacy. University related complaints may be appealed through the University of Iowa policies and procedures. Members of the University community may also seek advice on complaints from the Office of the Ombudsperson (C108 Seashore Hall, 335-3608).

Professional Experience Program

The Professional Experience program (PEP) is the practice experience component of the Doctor of Pharmacy curriculum and consists of a number of Introductory Practice Experiences during the didactic training and concludes with the Advanced Practice Experiences delivered from May to May in the fourth year of the professional program. Practice sites affiliated with the College of Pharmacy for both Introductory and Advanced Practice Experiences are located throughout the state of Iowa with a few located out of state. **The location of these sites will require the student to have access to transportation or to relocate in order to fulfill the requirements of the program.** Students should expect and plan to complete rotations outside of the Iowa City area. The expense of transportation and relocation is the responsibility of the student. The details of the introductory and Advanced Practice Experiences are outlined in the syllabi and distributed to the students at the appropriate time in the curriculum. The syllabi are reviewed annually and changes made, as needed, for the improvement of the program.

Grading for Introductory Pharmacy Practice Experiences is Pass-Fail. Grading for Advanced Pharmacy Practice Experiences is Honors-Pass-Fail.

Second-Grade Only Option

A student may repeat a course taken at the University of Iowa and have only the grade and credit of the second registration used in calculating total hours earned, the Iowa cumulative, total cumulative, and pharmacy grade-point averages with written permission of the Associate Dean. It is the student's responsibility to notify the Office of Academic Affairs if they seek this option.

Service Divisions

In addition to the two academic departments, there are two service divisions of the college. These are UI Pharmaceuticals which occupies the entire ground floor of the Pharmacy Building and the Division of Drug Information Service (DDIS)

UIP is a drug research, development and production unit fully licensed by the Federal Food and Drug Administration (FDA) with recognized "good manufacturing processes" approved by the FDA. DDIS is a drug information retrieval organization which provides information from the drug literature to subscribers all over the world.

Student Complaints Concerning Faculty Actions

If a dispute arises between a student and a faculty member or division, there may be confusion as to the best way for the student to resolve the problem

If a student complaint concerning faculty actions cannot be resolved through the informal mechanisms available, the student may file a formal complaint which will be handled under the procedures established for dealing with the alleged violations as specified in Part III, Chapter 15.2 of the University Operations Manual, Professional Ethics and Academic Responsibility: Responsibilities to Students, <http://www.uiowa.edu/~our/opmanual/iii/15.htm#152>. A copy of these formal procedures can be obtained from the Office of the Dean, the collegiate ombudsperson in the Office of Academic Affairs, the College of Liberal Arts and Sciences Academic Programs Office, the University Book Store and the Office of Equal Opportunity and Diversity, 202 Jessup Hall, 335-0705.

If your complaint involves sexual harassment, you need not follow these procedures. The University policy on sexual harassment and consensual relationships in the instructional context can be found in "Policies and Regulations Affecting Students" available at the Campus Information Center, Iowa Memorial Union, in the Office of Equal Opportunity and Diversity, 202 Jessup Hall, 335-0705

The Office of the University Ombudsperson, C108 Seashore Hall, 335-3608, responds to problems and disputes brought forward by all members of the University community--students, staff, and faculty--that appear irresolvable through existing channels. Before consulting the ombudsperson, ordinarily, an attempt should be made to resolve problems by following the procedures described below.

Students are encouraged to make full use of the counseling services available through the University. These cover the full range of academic, personal, financial, health or marital difficulties and will usually be handled informally without going into the student's record, unless it involves an official action or academic matter.

A. Informal Complaint Procedure

1. Attempt to resolve the issue with the faculty member directly.
2. If the complaint is not resolved, the student should go to the course coordinator, if applicable.
3. If the complaint is still not resolved, the matter should be taken to the appropriate division head or department chair.
4. If the complaint is still not resolved, the student may take the matter to the Associate Dean for Professional Education in the College of Pharmacy or the appropriate Associate Dean in the college responsible for the course.
5. If the complaint is still not resolved, the student may take the matter to the Dean of the appropriate College.

A student who is dissatisfied with the outcome of either a formal or informal complaint with the College, may file a complaint with the office of Equal Opportunity and Diversity, 202 Jessup Hall, 335-0705.

Questions about any of the procedures described above can be answered by program assistants in the Office of Academic Programs, 116 Schaeffer Hall, 335-2633.

Student Disabilities Accommodations and Services Policy

The University of Iowa College of Pharmacy accommodates qualified students with disabilities when applicable. The office of Student Disability Services (SDS) is responsible for verifying the eligibility of students requesting accommodations on the basis of disability. A student who plans to request accommodations must disclose his or her disability to Student Disability Services by submitting a report that documents his or her disability and related needs along with a completed Request for Services and Documentation Review Form. Further information is available at <http://www.uiowa.edu/~sds>.

Students who receive accommodations are required to submit a Student Academic Accommodation Request Form (SAAR) to the instructor of each course, for which they receive accommodations, usually no later than the second week of classes. In order to assist students with accommodations, students are requested to bring a copy or copies of the SAAR form(s) to Patricia A. McCormick, in the Office of Academic Affairs, Room 127 PHAR.

Students are requested to submit SAAR form(s) to 127 PHAR regardless of their intent to request accommodations for their Introductory or Advanced Practice Experiences. Students on Advanced Practice Experiences who request accommodations must also submit SAAR forms to preceptors. If you have any questions regarding accommodations and rotations, contact your SDS counselor and/or Patricia McCormick.

Student Substance Abuse

The College of Pharmacy shall abide by University policy and provide students with an opportunity to address substance abuse or dependence problems confidentially during any phase of their academic experience. The guiding philosophies of the following policy are first to protect patients from potential harm caused by impaired students in clinical practice experiences, and second to encourage the discovery and recovery of substance impaired or addicted students.

1. The College of Pharmacy acknowledges and adopts the University of Iowa's policy regarding use of illegal drugs and alcohol. Copies of this policy may be found in the **Policies and Regulations Affecting Students**, <http://student-services.uiowa.edu/students/policies/index.php>.
2. The College of Pharmacy has established The University of Iowa Pharmacy Recovery Network (UI-PRN), an ad hoc committee of the **College of Pharmacy**, to assist the College of Pharmacy in its obligation under the campus drug-free policies.
3. When reasonable information is available of a potential substance abuse problem by a student, the student will be required to obtain a clinical assessment at UI Student Health, or other acceptable medical facility. This may be done with the assistance of IPRN (See #4 below). Students refusing assessment may be dismissed from the college.
4. Students determined to have substance abuse problems, may consider entering into an agreement with the Iowa Pharmacy Recovery Network, Inc (IPRN), which the College of Pharmacy considers the primary group empowered to assist the College of Pharmacy in serving pharmacy students' needs for substance abuse treatment advocacy. The procedures to be followed by IPRN are included as an addendum to this policy.
5. Students entering into and maintaining an agreement with the IPRN may continue their pharmacy education, with permission of the Associate Dean for Professional Education. Students with substance abuse problems and not under IPRN contract will be dismissed from the College of Pharmacy.

Transfer of Course Credit

If a student desires to satisfy a course by taking it at another institution, permission must first be obtained from Patricia McCormick, 127 PHAR. Students must obtain this permission before they enroll in the course.

UIHC Compliance Training

All pharmacy students must complete UI College of Pharmacy and UIHC Compliance training prior to the first semester (August) of the first professional year and prior to the start (May) of the fourth professional year. In addition, Health Insurance Portability and Accountability Act (HIPAA) training must be completed where required for practice experiences. Students will be informed of these requirements as they become eligible to complete them. Compliance training modules include 1) Health Insurance Portability and Accountability Act (HIPAA), 2) Hospital Safety and Infection Control, 3) Mandatory Reporter, 4) UIHC Hospital Orientation, 5) Domestic

Violence, and 6) Fire Extinguisher Safety. Each topic requires completion of a corresponding ICON quiz with a minimum score of 80%.

Waiver or Substitution of Required Courses

If a student can demonstrate that the substitution of one course for another required course, or waiver of a required course, is essential to his/her career objective, because a schedule conflict exists, or the added course constitutes an overload; then he/she may petition for permission for such substitution or waiver. Such a petition must be submitted to the Patricia McCormick, 127 PHAR at least two months prior to the semester in which the proposed substitution is to be made.

Withdrawal of Registration

Students wishing to cancel their registration must obtain a Withdrawal Card from the Office of Academic Affairs or Office of the Registrar. The withdrawal does not take effect until the completed card has been returned to the Registrar's Office, 1 Jessup Hall. Consult the Schedule of Courses, Patricia McCormick, or the Registrar's Office if there are questions about adjustment of fees.

A student in good academic standing who withdraws his/her registration during the final four weeks of a regular semester or during the final two weeks of an eight-week summer session will not be permitted to enroll for the semester immediately following without specific approval of the Associate Dean for Professional Education.

WHOM TO SEE FOR WHAT

Visit this web site for "Who Does What?"

<http://www.registrar.uiowa.edu/documents/whodoes.aspx>

Academic Advisor/Major

Office of Academic Affairs, 127 PHAR (335-8795)

Adding Courses

Patricia McCormick, Program Associate
Office of Academic Affairs, 127 PHAR (335-8795)

Address Changes

Registrar's Service Center, 17 Calvin Hall (384-4300)
Registrar's Office, 1 Jessup Hall (335-0238)

http://www.registrar.uiowa.edu/address_changes

<https://www.isis5.uiowa.edu/isis/records.page>

Office of Student Affairs, 127 PHAR (335-8795)

Canceling Registration

See Withdrawal of Registration

Commencement

Patricia McCormick, Program Associate
127 PHAR (335-8795)

Registrar's Office, 1 JH (335-0296)

<http://www.registrar.uiowa.edu>

Computer Help and Information

ITS Help Desk, 2800 UCC or 2nd Floor IMU (384-4357)

ITS Help, 133A PHAR (335-8649)

cop-it-helpdesk@list.uiowa.edu

Counseling (educational, personal)

Patricia McCormick, Program Associate,
127 PHAR (335-8795)

University Counseling Service 3223 Westlawn (335-7294)

<http://www.uiowa.edu/~ucs>

Disabilities, Student Disability Services

Dr. Dau-shen Ju, Director 3100 Burge Hall (335-1462)

Carole Collier (voice/TTY) (335-1498)

Amy Kearns Larsen (335-1462); Jo Dillon (335-1462)

Leah Behrens (335-1462); Michael Venzon (335-1462)

<http://www.uiowa.edu/~sds>

Patricia McCormick, Program Associate
Office of Academic Affairs, 127 PHAR (335-8795)

Dropping Courses

Patricia McCormick, Program Associate
Office of Academic Affairs, 127 PHAR (335-8795)

Events Approval (student organizations)

Jennifer Bertrand,

Office of Academic Affairs, 127 PHAR (335-8974)

Office of Student Life, Room 145 IMU, (335-3059)

<http://www.imu.uiowa.edu/osl>

osl@uiowa.edu

Faculty Mentor Program

Vern Duba,

Office of Academic Affairs, 308-1 PHAR (335-8847)

Grade Changes (Special Report to the Registrar)

Office of Academic Affairs, 127 PHAR (335-8795)

Records, Registrar's Office 1 Jessup Hall (335-0239)

Grading Option Changes (P/F)

Patricia McCormick, Program Associate, 127 PHAR
(335-8795)

Graduation Analysis

Julie Fell, Director, Enrollment Sys., Registrar's Office,
1 JH (335-0228)

Patricia McCormick, Program Associate

Office of Academic Affairs, 127 PHAR (335-8795)

Graduation Requirements

Patricia McCormick, Program Associate,
Office of Academic Affairs, 127 PHAR (335-8795)

Grievances, Complaints, General Counseling for Students

Patricia McCormick, Program Associate,
Office of Academic Affairs, 127 PHAR (335-8795)

Hours Change (Drop/Add slip)

Patricia McCormick, Program Associate

Office of Academic Affairs, 127 PHAR (335-8795)

ISIS Questions/Information

Registrar's Service Center, 17 CALH (384-4300)

Office of Academic Affairs, 127 PHAR (335-8795)

<http://isis.uiowa.edu>

Lost and Found

Office of Academic Affairs, 127 PHAR (335-8795)

809 UCC (384-2797) lost@uiowa.edu

<http://www.uiowa.edu/homepage/hub/lost.found.html>

Major Changes

Office of Academic Affairs, 127 PHAR (335-8795)

Undergraduate Admissions, 108 CALH (335-1549)

Name Changes

Registrar's Service Center, 17 CALH (384-4300)

<http://www.registrar.uiowa.edu/forms/namechange.pdf>

Office of Academic Affairs, 127 PHAR (335-8795)

Notary Public

Teresa Ahrens

Office of Academic Affairs, 127 PHAR (335-8795)

Registrar's Office, 1 JH (335-0238)

Registration Center, 30 CALH (335-0245)

Pass-Fail, Pass-Nonpass Courses

Patricia McCormick, Program Associate,
127 PHAR (335-8795)

Personal Problems

Patricia McCormick, Program Associate,
127 PHAR (335-8795)

University Counseling Service, S330 Westlawn
(335-7294)

Policies and Regulations

Patricia McCormick, Program Associate,
Office of Academic Affairs, 127 PHAR (335-8795)
Office of Vice President for Student Services & Dean of
Students, 249 IMU (335-3557)

Probation (academic)

Patricia McCormick, Program Associate,
127 PHAR (335-8795)

Reasonable Academic Progress Information/Appeals

Office of Student Financial Aid, 208 CALH (335-1445)

<http://www.uiowa.edu/financial-aid>

financial-aid@uiowa.edu

Patricia McCormick

Office of Academic Affairs, 127 PHAR (335-8795)

Registration Problems

Patricia McCormick, Program Associate

Office of Academic Affairs, 127 PHAR (335-8795)

Jane Omann, Sr. Associate Director Enrollment Svc.,

Registration Center, 30 CALH (335-0241)

Reinstatement (extenuating circumstances)

Office of Academic Affairs, 127 PHAR (335-8795)

Returning Students

Patricia McCormick, Program Associate,
Office of Academic Affairs, 127 PHAR (5-8795)
Undergraduate Admissions, 108 CALH (335-1549)

admissions@uiowa.edu

www.uiowa.edu/admissions

Second-Grade-Only Option

Teresa Ahrens

Office of Academic Affairs, 127 PHAR (335-8795)

Special Student Status

Patricia McCormick, Program Associate

Office of Academic Affairs, 127 PHAR (335-8795)

Undergraduate Admissions, 108 CALH (335-1549)

Student Activities

Jennifer Bertrand, 12B PHAR (335-8974)

Student Organizations

Jennifer Bertrand, 127B PHAR (335-8974)

Office of Student Life, 145 IMU (335-3059)

<http://www.imu.uiowa.edu/osl/>

osl@uiowa.edu

Withdrawal of Registration

Patricia McCormick, Office of Academic Affairs,

127 PHAR (335-8795)

ACADEMIC SUPPORT SERVICES

Learning Resource Center (LRC)

The Learning Resource Center (LRC) provides electronic access for all students to:

American Botanical Council (HerbalGram, German Commission E Monographs, etc.)

Clinical Pharmacology Online

Clinical Pharmacology OnHand (PDA version)

Epocrates Online Premium

Facts & Comparisons 4.0

Lexi-Comp Online

All are accessed on the web via the College of Pharmacy website at

<http://www.pharmacy.uiowa.edu/doctorof/resource.htm>.

In addition to the electronic databases, the LRC has a print journal collection and curriculum support reference collection of books. The books are kept in the filing cabinets in 133 PHAR and in the PPL lab (219 PHAR). Journals are on the display shelves.

The University Libraries is the college's main information provider. Hardin Library for the Health Sciences provides health and medicine related information, reference librarians, and access to many electronic books, journals, and databases. Other branch libraries (Biological Sciences, Geosciences, and Engineering, etc.) are useful too.

Contact Vern Duba in the Office of Academic Affairs if you have questions or need help finding drug information.

Instructional Technology Centers (ITC)

Information Technology Services and academic departments support many ITCs across campus. These centers have computers, printers and software that students can use. ITCs are open at least 50 hours per week. The Pharmacy ITC located in 129 PHAR (but accessed through 133 PHAR) houses 31 desktop computers with over 30 popular software titles, and two laser printers. See the following table or <http://itc.uiowa.edu/Locations.aspx> for ITC names and locations.

Instructional Technology Centers

| Name | Location | Phone |
|-------------------------------|---------------------------------|--------------|
| Adler Journalism Building | W240 | No Phone |
| Burge Residence Hall | B7 Lower Level | 335-3176 |
| Currier Residence Hall | E05 | 335-3483 |
| Education | N188 LC | 335-5623 |
| English-Philosophy Building | 210 EPB | 335-2084 |
| Hardin Library for Health Sci | 207 & 217 HLHS | 335-6943 |
| Hillcrest Residence Hall | 340 | 335-6668 |
| Honors Center | 318 BHC | 335-3383 |
| IMU 3 rd floor | 3 rd floor IMU | 384-3114 |
| IMU Student Activity Center | 46 IMU | 335-3268 |
| IMU Wheel Room | ITC Wheel Room | |
| Information Arcade | 1 st Floor, Main Lib | 335-6465 |
| Jessup Hall | 327 JH | 335-0044 |
| Language Media Center | 120 PH | 335-2331 |
| Main Library | 2 nd FL LIB | 335-6049 |
| Mayflower Residence Hall | 116 M | 335-2975 |
| Music | CSM 5 Room 101 | |
| Nursing | 40 NB | 335-7022 |
| Pathology Learning Center | 1000 ML | 335-8192 |
| Pharmacy | 129 PHAR | 335-8234 |
| Political Science | 21 SH | 335-2066 |
| Quadrangle Residence Hall | 1100D | 335-5996 |
| Seashore Hall | W13 SSH | 335-2513 |
| Statistics | 41 SH | 335-2594 |
| Weeg | S102 LC | 384-4357 |

Speaking Center

153 English-Philosophy Building, (335-0205) <http://www.uiowa.edu/~rhetoric/centers/speaking.html>

The Speaking Center helps students improve their public speaking, gain confidence in joining class discussion, and to improve basic conversational language skills. The Speaking Center staff provides one-on-one instruction for students who want to improve their speaking performance in Rhetoric classes or other domains of university life. Students who sign up early in the semester can receive individualized instruction 30 minutes per week for an entire semester. Instruction depends on your individual needs and includes help with delivery techniques, methods of organizing material, strategies for effective presentations, options for preparing and practicing speeches, and methods of generating and using responses to speeches for further improvement.

University Libraries <http://www.lib.uiowa.edu>

University Libraries consists of the Main Library, Hardin Library for the Health Sciences and 11 departmental libraries. The system operates on an automated on-line catalog which contains more than one million records.

Students can do computer searches on an array of topics.

Writing Center

110 English-Philosophy Building (335-0188) <http://www.uiowa.edu/~writingc/>

The Writing Lab helps undergraduate and graduate students develop their writing abilities. Students enroll in a non credit course in which they meet twice a week for individual conferences with a writing teacher.

UNIVERSITY STUDENT SERVICES

The following are brief descriptions of the some of services available to you as a UI student.

International Programs

1111 UCC (353-2700) <http://intl-programs.uiowa.edu>

This office provides services to students from other countries as well as students from the US interested in studying abroad. Foreign student advisors advise foreign students, faculty and staff on matters such as immigration, personal and social concerns, budgeting and financial aid.

Office of the Registrar

1 Jessup Hall (335-0238) www.registrar.uiowa.edu

This office maintains permanent academic records for students and issues official transcripts. Other key functions include:

- organizing and supervising registration for classes;
- administering fee assessments and adjustments, withdrawals, and degree evaluations;
- determine residency status;
- interpreting policies and regulations;
- producing General Catalog & Schedule of Courses.

This office also prepares the Degree Evaluation Report (DELI) which is a document that helps students chart their progress toward a degree.

Student Disability Services

3100 Burge Hall (335-1462) www.uiowa.edu/~sds

Student Disability Services (SDS) coordinates support services to enhance the skills, performance, and personal development of students and staff members with disabilities. Following are some of the services provided:

- academic, personal and career counseling
- tutoring, academic skills strategies, and services to accommodate special needs
- help in recruiting academic aides and personal care providers
- alternative exam service for students needing exam accommodations

Student Legal Services

155 Iowa Memorial Union (335-3276) www.uiowa.edu/~legal student-legal@uiowa.edu

SLS offers legal representation and services to all currently enrolled UI students. SLS also sponsors a weekly free advice clinic where students can meet individually with an intern. Students who become clients pay a flat fee based on the rates offered by the local public defender. Students must also pay all court costs and filing fees resulting from the case.

Some of the issues SLS will provide assistance include:

- criminal defense for simple, serious, and aggravated misdemeanors
- landlord/tenant disputes
- small claims actions under \$2000
- marriage dissolution - uncontested and no children
- adoptions - uncontested
- consumer problems

University Counseling Service

3223 Westlawn (335-7294) www.uiowa.edu/~ucs

University Counseling Service offers counseling services to help students grow in self-understanding so that they may use their assets effectively and plan attainable goals for the future.

Students seek counseling on a voluntary basis and can receive career counseling, academic and study skills counseling, personal and interpersonal relationships counseling, marital counseling and group therapy.

STUDENT LIFE

Pharmacy Student Organizations

Student organizations provide students with the opportunity to explore many different aspects of the profession of pharmacy in a collegial environment. All the organizations are involved in both College-wide and University-wide events relating to healthcare. In addition, the organizations provide the students with social opportunities which include the Health Fair, The College of Pharmacy Ball, freshman orientation, guest speakers, Poison Prevention week, and National Pharmacy Week.

American Pharmacists Association – Academy of Student Pharmacists (APhA-ASP)

APhA-ASP is primarily a professional organization, dedicated to advancing pharmacy and providing community service, while furthering the careers of its members. The chapter's activities include numerous community service events, such as Operation Immunization, Operation Diabetes, blood drives, and Katy's Kids poison-prevention program. Numerous fundraising activities, Professionalism Nights with speakers, Iowa Pharmacy Association (IPA) events, a Patient Counseling Contest, and social events are some of their other activities.

Faculty Advisors: William Doucette, Susan Staggs

Kappa Psi Pharmaceutical Fraternity

Kappa Psi is the College of Pharmacy's social professional fraternity. Membership in the fraternity is open to all pharmacy students and serves as an avenue for meeting other students throughout all classes of the college. Kappa Psi does volunteering for Ronald McDonald House charities as well as other philanthropy events such as Dance Marathon. Throughout the year, the chapter is also involved in giving educational talks to junior high students on smoking prevention and holding hypertension screenings throughout the community. Members of Kappa Psi travel to Conclave at different chapters each semester, and hold various social events throughout the year.

Faculty Advisors: Deanna McDanel, Jeff Reist

Pharmacy Student Ambassador Network (PSAN)

Members of the Pharmacy Student Ambassador Network (PSAN) serve as representatives of the College of Pharmacy to high school and college students. Members give tours of the College to visiting prospective students. The group is made up of volunteers from all years and offers many opportunities for participation.

Faculty Advisor: Jennifer Bertrand

Phi Lambda Sigma National Pharmacy Leadership Society (PLS)

Phi Lambda Sigma, also known as the National Pharmacy Leadership Society, promotes the development of leadership qualities, especially among pharmacy students. By peer recognition, the Society encourages participation in all pharmacy activities. Members are selected as early as the spring semester of their first professional year. The University of Iowa chapter of Phi Lambda Sigma participates in many annual events at the College of Pharmacy. These events include the chili cook-off in the fall, the pie bake-off in the spring, as well as softball and basketball tournaments for students and faculty.

Faculty Advisor: Karen Farris

Professional Outreach and Development Societies (PODS)

New to the College of Pharmacy are Professional Outreach and Development Societies (PODS). PODS are a vertical expansion of the pharmacy classes creating an opportunity for P1, P2, P3, and P4 students to interact along with graduate students, faculty, preceptors, staff, residents, alumni, and practitioners. Each Pharm.D student is randomly allocated into one of the four Learning Communities of PODS. PODS are a new and exciting way to promote fellowship, professionalism, service and learning while complementing student council and student organizations. The extent of your participation in your community is voluntary, but the PODS are designed to build a network of relationships to last far beyond pharmacy school.

The Rho Chi Society

The Rho Chi Society is a national pharmacy academic honor society recognizing outstanding scholarship by P3, P4, graduate and post-graduate pharmacy students. Members of Rho Chi are in the top 20% of their academic class, have a cumulative GPA of 3.0 or higher, and display qualities of leadership and outstanding conduct. Rho Chi holds an initiation banquet each year in the spring to honor incoming members. The society participates in fundraisers each year. The chapter is also very involved with the University of Iowa Mobile Clinic, the goal of which is to provide healthcare to underserved populations in the Iowa City Area.

Faculty Advisor: Maureen Donovan

Student National Pharmaceutical Association (SNPhA)

The Student National Pharmaceutical Association (SNPhA) was founded in 1972 as the student affiliate of the National Pharmaceutical Association (NPhA). SNPhA is an education and service association of pharmacy students and high school affiliate members concerned about pharmacy, health care issues, and the need for greater minority representation in pharmacy and other health professions. During the past few years, the University of Iowa SNPhA chapter has been involved in a number of activities that promote pharmacy and community health including Operation Immunization, Walk for Diabetes, National Poison Prevention Week, health fairs, and UI Human Rights Week.

Faculty Advisor: Christine Catney

University of Iowa Pharmacy Recovery Network (UIPRN)

UIPRN is the University of Iowa branch of IPRN, the Iowa Pharmacy Recovery Network. UIPRN provides students with educational programs and information about addictions and alcohol or drug dependency. Their major activity is a 'Soup and Substance' lecture series, which highlights a different aspect of substance abuse each month and is open to everyone in the College. Other activities they sponsor include an ice cream social at the beginning of the school year, taxi rides home from the College of Pharmacy Ball, and sending select members to the annual University of Utah School of Alcoholism and other Drug Dependencies each summer.

Faculty Advisors: Mary Starry, Jeff Reist

University of Iowa Student Chapter of American Society of Health-Systems Pharmacists (UI-SHP)

UI-SHP is the University of Iowa's chapter of the American Society of Health-System Pharmacists. It is an organization for pharmacy students that are interested in learning more about opportunities in the pharmacy profession, such as residency programs and fellowships. UI-SHP activities include sponsoring an evening of improving CV and resume writing open to all pharmacy students, a residency night to learn about the programs available in Iowa, rotation information night, where P4's share their experiences with the P3 students, an etiquette dinner, and UIHC pharmacy tours.

Faculty Advisor: David Weetman

LEISURE AND SOCIALIZING

Though your workload in the classroom may seem overwhelming, leisure and socializing are important in your life. The University campus and the Iowa City area offers a full spectrum of social events with something for everyone's tastes. Whether it's socializing with friends in your residence hall, catching a movie at a local theater or listening to the "*Battle of the Bands*" at the University's Riverfest celebration, there are plenty of things you can do with your free time.

Arts, Music and Entertainment www.hancher.uiowa.edu

The University of Iowa is known for bringing some of the most famous and respected performing artists and lecturers to Iowa City. Hancher Auditorium, seated nearly 2,700 people and has been the site for many performances by world-famous acts. Hancher Auditorium and most of the Arts Campus was severely damaged by the summer 2008 flood and Hancher will be rebuilt at another site. This season they are presenting at eleven venues in the area and have complete information on the website regarding our alternate venues and programs. The Hancher Box Office is now located on the first floor of the Old Capitol Mall next to Sweets & Treats. The offices are now located at 107 Lindquist Center South.

Cambus www.uiowa.edu/~cambus

Cambus is the free campus bus system which provides several routes to take you just about anywhere you need to go on the campus. The Red and Blue routes run around the entire campus at 10-minute intervals with stops at the residence halls, athletic facilities, the Pentacrest, University Hospital and Clinics and Hancher, among others. Other routes serve different parts of the campus. Iowa City Transit is the city bus service which can take you anywhere you need to go in the Iowa City/Coralville area and all of its bus lines run past the Old Capitol Center downtown. There is a small fee for the Iowa City/Coralville buses. Discount passes for students are available.

Indoor and Outdoor Recreation Programs www.recserv.uiowa.edu

Several outdoor activities including backpacking, rock climbing, kayaking, caving, rafting and cross-country skiing are available. The MacBride Nature Recreation Area is located about 15 miles north of Iowa City with trails for hiking and cross-country skiing, Lake MacBride for sailing and areas for picnics and camping. The University also

offers 22 different sports clubs as well as a full slate of intramural sports for individual or team competition. More information can be found at Recreational Services, 216 Fieldhouse, 335-9293.

Iowa's Greek System www.uiowagreeks.com

Iowa's Greek community consists of 35 fraternities and sororities, including seven traditionally African-American and Hispanic/Latino houses. Formal Recruitment, held the week before fall semester starts, gives students the opportunity to meet members of the individual chapters to decide which may be of interest. An Informal Recruitment occurs in the Spring semester.

Iowa Memorial Union (IMU) www.imu.uiowa.edu

The IMU is referred to as the "Heart of Campus Life" and that definition applies literally as well as figuratively. It is located in the center of the campus, right on the Iowa River at the corner of Madison and Jefferson streets, and it houses many different student activities and organizations.

The Campus Information Center, centrally located on the 1st Floor, is a great place to get information about both on- and off-campus activities. The University Book Store (currently located in the University Capitol Centre) stocks textbooks, school supplies, electronics equipment as well as a variety of Iowa clothing and souvenirs. The University Box Office is a Ticketmaster location and sells tickets to the IMU's Bijou Theater as well as most area concert events. The Office of Student Legal Services offers free counseling to all students on legal matters. The IMU also has a hotel, several eating spots, ATM a branch of the University of Iowa Community Credit Union, and a computer lab.

Multicultural Student Organizations

The Office of Student Life in the IMU lists more than 50 multicultural student organizations that offer professional, social and cultural events (<http://imu.uiowa.edu/osl> or <http://osl.webtest.iowa.uiowa.edu/index3.htm>). Some examples include the Black Student Union (BSU), Black Graduate and Professional Students (B-GAPS), American Indian Student Association (AISA), and the Asian American Coalition at the U of I. The Student National Pharmaceutical Association (SNPhA) is a student organization for pharmacy and pre-pharmacy students concerned about serving underserved populations and minority representation in the profession of pharmacy. In addition to multicultural student organizations, four Cultural and Resource centers exist on campus and they have become a focal point of cultural enrichment and diversity, academic development, and personal growth. They are: the Afro-American Cultural Center (AACC), the Asian Pacific American Cultural Center (APACC), the Latino Native American Cultural Center (LNACC) and the Lesbian, Gay, Bisexual, Transgender Resource Center (LGBTRC). The four centers are all located on or near Melrose Avenue, very close to the Pharmacy Building.

Religious Opportunities

Nearly every faith is represented by at least one church or organization in the Iowa City area. There are seven Lutheran churches, five Catholic churches, seven Baptist churches, six Methodist churches, two Presbyterian churches and two Jewish synagogues. In addition, there are 45 other student and local religious organizations representing other faiths. The Campus Information Center in the IMU has a listing of all religious organizations in Iowa City and Coralville.