

P1 Year

PHAR 1101—Introduction to Pharmacy Practice 1

No Textbooks

PHAR 1220—Foundations in Practice of Pharmacy

Recommended: Brinkley FS and Cacciatore GG. Texas and Federal Pharmacy and Drug Law, 11th Ed. 2017. ISBN: 0692949488

PHAR 1250—Clinical Correlations 1

No Textbooks

PHAR 1430—Biological Foundations in Pharmacy

Guyton and Hall Textbook of Medical Physiology, 13th edition, Elsevier/Saunders, 2015 (available free through the TTUHSC library system)

TolTech VH Dissector Pro Software, available for download (included in course fees)

Access to TTUHSC Library Multimedia resources

Visible Body[®] Human Body Atlas 2021, iOS/Android application (*not required but is useful).

PHAR 1432—Pharmacy Immunology and Microbiology with Clinical Immunization Lab

Required:

Title: The Immune System

Author: Peter Parham

Publisher: W.W. Norton & Company, New York and Garland Science Publishing, New York

Edition/Year: 5th/2021

<http://books.wwnorton.com/books/index.aspx>

Required: Centers for Disease Control . Epidemiology and Prevention of Vaccine-Preventable Diseases. 13th Ed. May 2015: CDC. Available for download at:
<http://www.cdc.gov/vaccines/pubs/pinkbook/index.html>

Recommended: Angelo LB. APhA's Immunization Handbook. 4th. Ed. 2018: American Pharmacists Association. eISBN: 1-58212-303-9

PHAR 1440—Molecular Foundation of Therapeutics

No textbook is required for this class. If you have never had a Biochemistry course, you might find a textbook helpful as a reference in order to understand the concepts covered in class. 'Marks' Basic Medical Biochemistry', 5th ed., by MA Lieberman, A Peet, Lippincott Williams & Wilkins, publishers, 2017, is a particularly nice selection. Contact the course team for other textbook suggestions.

PHAR 1460—Pharmacy Science and Calculations

Required

H.C. Ansel, S.J. Prince Stockton: Pharmaceutical Calculations 16th Edition, LWW, 2021

Recommended

P. Sinko: Martin's Physical Pharmacy and Pharmaceutical Sciences 7th Edition, Lippincott Williams & Wilkins 2016

L.V. Allen, N.G. Popovich, H.C. Ansel: Pharmaceutical Dosage Forms and Drug Delivery Systems 9th Edition, Williams & Wilkins, 2012

D.L. Elder: A Practical Guide to Contemporary Pharmacy Practice 4th Edition, Lippincott Williams & Wilkins 2017

M.G. Teixeira, J.L. Zatz: Pharmaceutical Calculations 5th Edition, Wiley 2017

Supplemental

Remington The Science and Practice of Pharmacy, 22nd Edition, Lippincott Williams & Wilkins 2012

P2 Year

PHAR 2101—Introduction to Pharmacy Practice 2

No Textbooks

PHAR 2210—Clinical Research and Drug Literature Evaluation

No textbooks are required; any required reading material will be posted on the course site

PHAR 2218—Health Systems and Policy

Recommended Text: McCarthy RL, Schafermeyer KW, Plake KS. Introduction to Health Care Delivery: A Primer for Pharmacists. 6th ed. Burlington, MA: Jones & Bartlett Learning; 2017.

Recommended Reading: Sleeper Irons RB. Challenges in Geriatric Care. In: Hutchinson LC, Sleeper Irons RB. Fundamentals of Geriatric Pharmacotherapy: An evidence Based approach. 2nd ed. Bethesda, MD: ASHP; 2015.

PHAR 2220—Applied Patient Care Lab

Recommended Text:

Fundamental Skills for Patient Care in Pharmacy Practice (ISBN: 9781449652722)

Required Course Materials and Technology:

Mobile phone

Required (free): TTUHSC Libraries website access

[Lexi-comp Online® Database](#)

[Micromedex® Healthcare Online Series](#)

PHAR 2250—Clinical Correlations 3

No Textbooks

PHAR 2401—IPT1: Cardiovascular

DiPiro JT, Talbert RL, Yee GC, et al., eds. Pharmacotherapy, A Pathophysiologic Approach. 11th ed. New York, NY: McGraw-Hill; 2020. (Available via [Access Pharmacy](#))

Brunton LL, Blumenthal DK, Murri N, Hilal-Dandan R. Goodman & Gilman's: The Pharmacological Basis of Therapeutics. 13th ed. New York, NY: McGraw-Hill; 2017. (Available via [Access Pharmacy](#))

Kumar V, Abbas AK, Fausto N, Aster J, eds. Robbins and Cotran Pathologic Basis of Disease. 10th edition. Philadelphia, PA: Saunders; 2021 (available via [Clinical Key](#)).

Fauci AS, Braunwald E, Kasper DL, et al, eds. Harrison's Principle of Internal Medicine. 20e ed. New York, NY: McGraw-Hill; 2018. (Available via [Access Pharmacy](#))

Hall J. Guyton and Hall Textbook of Medical Physiology. 14th edition, Philadelphia, PA: Saunders; 2021 (Available via [Clinical Key](#)).

PHAR 2402—ITP2: Renal and Respiratory

DiPiro JT, Talbert RL, Yee GC, Matzke GR, Wells BG, Posey LM, eds. Pharmacotherapy: a Pathophysiologic Approach. 11th ed. 2020. New York, McGraw-Hill.

Available through the TTUHSC Libraries and [Access Pharmacy](#)

Brunton LL, Hilal-Dandan R, Knollman BC, eds. Goodman & Gilman's The Pharmacological Basis of Therapeutics. 13th ed. 2018. New York, McGraw-Hill.

Available through the TTUHSC Libraries and [Access Pharmacy](#)

Hall JE, ed. Guyton and Hall Textbook of Medical Physiology. 14th ed. Philadelphia, PA: Saunders Elsevier; 2021.

Available through the TTUHSC Libraries and [ClinicalKey](#)

Kumar V, Abbas AK, Aster JC, eds. Robbins and Cotran Pathologic Basis of Disease. 10th ed. Philadelphia, PA: Saunders Elsevier; 2021.

Available through the TTUHSC Libraries and [ClinicalKey](#)

Key guidelines for therapy including the EPR-3 for Asthma and GOLD for COPD

PHAR 2420—Principles of Self Care, Health, and Wellness

Required

Krinsky DL, ed. The Handbook on Nonprescription Drugs. 19th ed. Washington, DC: American Pharmaceutical Association; 2018. ISBN-1-58212-265-6.

Hardcopies available for limited check out. Contact a faculty team member on your campus.

Recommended

Mospan C, Wilhelm M, ed. Handbook for Nonprescription Drugs Quick Reference. Washington, DC: American Pharmaceutical Association; 2019. ISBN 1-58212-290-3.

Online databases

[Natural Medicine](#)

Lexicomp Natural Products

MICROMEDIEX Herbal Medicines, a Guide for Health-Care Professionals

P3 Year

PHAR 3218—Financial Management

Required

Carroll, N. V. (2007). Financial management for pharmacists. Lippincott, Williams, & Williams, Baltimore, MD ISBN-13: 978-099840240-6

Recommended

Baker, J. J., Baker, R. W., & Dworkin, N. R. (2017). Health care finance: Basic tools for nonfinancial managers. Jones & Bartlett Learning. ISBN-13: 9781284118216

Schumock, G., T., & Stubbings, J. (2013). How to Develop a Business Plan for Pharmacy Services. American College of Clinical Pharmacy, Lenexa, Kansas.

PHAR 3250—Clinical Correlations 5

No Textbooks

PHAR 3405—ITP 5: Neurosensory/Psychiatry

Required

Dipiro, JT, Talbert RL, Yee GC, Matzke GR, Wells BG and Posey LM: Pharmacotherapy, A Pathophysiologic Approach, 11th Edition, McGraw-Hill: New York, 2020. Available through the TTUHSC Libraries ([Access Pharmacy](#))

Goodman and Gilman: The Pharmacological Basis of Therapeutics, 13th Ed., McGraw-Hill: 2018. Available through TTUHSC Libraries (Access Med or [Access Pharmacy](#))

Robbins: Pathologic Basis of Disease, 10th Ed., W. B. Saunders. Available through TTUHSC Libraries ([Clinical Key](#))

Recommended

Stahl SM: Stahl's Essential Psychopharmacology: Neuroscientific Basis and Practical Applications, 4th ed., New York, NY, Cambridge University, 2013

APA: Diagnostic and Statistical Manual of Mental Disorders, 5th edition, Arlington, VA, American Psychiatric Association, 2013

PHAR 3406—ITP 6: GI, Nutrition, Obesity, and Wellness

Required:

DiPiro JT, Talbert RL, Yee GC, Matzke GR, Wells BG, Posey L. eds. Pharmacotherapy: A Pathophysiologic Approach, Tenth Edition. New York, NY: McGraw-Hill; 2017. Available through the TTUHSC Libraries and [Access Pharmacy](#)

PHAR 4203—Advanced Therapeutics and Practice Elective

DiPiro JT, Talbert RL, Yee GC, et al, eds. Pharmacotherapy, A Pathophysiologic Approach. 11th ed. New York, NY: McGraw-Hill; 2019. (Available via [Access Pharmacy](#))

Various therapeutic guidelines (see schedule)

Self-Identified NAPLEX Review guide (recommended)

PHAR 4206—Veterinary Pharmacy Elective

Optional

The Merck Veterinary manual, 9th edition, Cynthia M. Kahn, Scott Line, Merck Freely available on: <http://www.merckvetmanual.com/>

Kirk's Current Veterinary Therapy, Volume XIV, John D. Bonagura, David C. Twedt, W.B. Saunders Company

Plumb's Veterinary Drug Handbook: Desk edition, Donald C. Plumb, 6th edition, Wiley-Blackwell

PHAR 4211—Advanced Infectious Diseases Elective

Required: None

Recommended

[Principles and Practices of Infectious Diseases \(Mandell's – 9th Edition\)](#)

[Reese & Betts' A Practical Approach to Infectious Diseases \(5th Edition\)](#)

[Antibiotics Simplified \(4th Edition\)](#)

PHAR 4213—Advanced Cardiology Elective

Required:

There is no specific textbook required for this course. Candidates will be given topic-specific reading assignments (primary literature, tertiary literature, online resources) to augment the learning experience.

Recommended:

Recommended readings will be provided by faculty members at the time of lecture

PHAR 4214—Advanced Patient Management in Ambulatory Care Elective

There are no specific textbooks required for this course. Candidates will be given topic specific reading assignments (e.g., national clinical guidelines and/or clinical trial data) to supplement the learning process.

PHAR 4216—Cultural Competency in Healthcare Elective

Required

None

Recommended

Achieving Cultural Competency : A Case-Based Approach to Training Health Professionals, edited by Lisa Hark, et al., John Wiley & Sons, Incorporated, 2009. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ttuhsc-ebooks/detail.action?docID=428251>.

Sias JJ, Loya AM, Rivera JO, Shenberger-Trujillo JM. Cultural Competency. In: DiPiro JT, Yee GC, Posey L, Haines ST, Nolin TD, Ellingrod V. eds. Pharmacotherapy: A Pathophysiologic Approach, 11e. McGraw-Hill; 2020. [Access Pharmacy](#)

Betancourt JR, Green AR. Racial and Ethnic Disparities in Health Care. In: Jameson J, Fauci AS, Kasper DL, Hauser SL, Longo DL, Loscalzo J. eds. Harrison's Principles of Internal Medicine, 20e. McGraw-Hill; 2014. [Access Pharmacy](#)

O'Connell M, Mollon L, Pattin C, Iyengar V. LGBT, Race, Ethnicity, Religion, and Cultural Sensitivity. In: O'Connell M, Smith JA. eds. Women's Health Across the Lifespan, 2e. McGraw-Hill; 2019. [Access Pharmacy](#)

P4 Year

PHAR 4200—Grand Rounds

Materials for this course will be provided by the student presenters. Additional information from the American Council on Pharmaceutical Education (ACPE), development of an effective presentation, and a review on the presentation evaluation method are posted on Sakai by the Team.