Course Description
This course focuses on the critical evaluation and use of medical literature in pharmacy practice as well as the clinical application of pharmacy informatics.

Additional Course Information
This course focuses on the use of primary, secondary, and tertiary literature in pharmacy practice and strategies used to evaluate literature and information resources. It is designed to build upon drug information, biostatistics, and clinical research concepts learned in previous coursework. During this course, students will develop the skills necessary to critically evaluate medical literature and competently respond to questions related to drug therapy. The course will also include an introduction to the evaluation and application of informatics to pharmacy practice. At the end of this course the student should have an appreciation of the role of timely and rigorously analyzed healthcare literature as an essential component of formulating and implementing optimal drug therapy plans.

Course Credit
2 credit hours

Pre-Requisites
- P2 standing
- Completion of PHAR 7274: Biostatistics & Clinical Research Methods

Class Meeting Days, Time & Location
- Class meetings will be online via Zoom on Fridays, 10:00 AM – 11:50 AM, unless otherwise specified
    - Class sessions and chat logs will be recorded and attendance will be taken
- Exams will be delivered online via ExamSoft during the P2 Exam Block – virtually (not in-person)

Course Coordinator
Winter J. Smith, Pharm.D., BCPS
Email: wsmith@uttyler.edu
Office hours:
- **MUST** make appointment: Tuesdays, 12-1 PM and Fridays, 12-2 PM (may be via phone or Zoom)
- Other days/times (via phone or Zoom) by appointment
Preferred method of contact: email

Fisch College of Pharmacy (FCOP) and UT Tyler Policies
This is part 1 of the syllabus. Part 2 contains UT Tyler and the FCOP course policies and procedures and Part 3 contains policies specific to Fall 2020. These are available as a PDF at https://www.uttyler.edu/pharmacy/academic-affairs/. For experiential courses (i.e., IPPE and/or APPE), the Experiential Manual contains additional policies and instructions that supplement the Syllabus Part 1 and 2. Please note, the experiential manual may contain policies with different deadlines and/or instructions. The manual should be followed in these cases.

Required Materials
Most course required materials are available through the Robert R. Muntz Library. These materials are available either online* (http://library.uttyler.edu/) or on reserve.
1. **IMPORTANT:** UT Tyler Zoom Account (free): each student must sign up for a Zoom account through UT Tyler and use this account each time they are joining a class session. https://uttyler.zoom.us/

2. *Malone PM, Kier KL, Stanovich JE, Malone MJ. *Drug Information; A Guide for Pharmacists*, Sixth Edition. McGraw-Hill Education, 2018. ISBN: 978-1-259-83797-5. (Available in Access Pharmacy)
3. Other required materials will be posted on the class Canvas site. The site address is: uttyler.edu/canvas.

Course Format
The course may include, but are not limited to, the following activities:
1. Independent study of selected readings
2. Individual readiness assessment tests (iRATs)
3. Individual and team projects
4. Team-based learning, active learning strategies:
   a. Team readiness assessment tests (tRATs)
   b. Team application of content and concepts

Course Learning Outcomes (CLOs)

CLOs	PLO(s) Assessed for this CLO (1-15)	EPAs (1.1-6.1)	Assessment Methods	Grading Method	PPCP Skill(s) Assessed (1-5)	ACPE Std. 11 & 12 (1-4)
1. Discuss the legal and ethical aspects surrounding the provision of drug information.	7	4.2	3	ES	2	N/A
2. Describe the benefits and limitations of primary, secondary, and tertiary drug information sources, including print and electronic.	1,7	1.2,4.2	3	ES	2	N/A
3. Identify appropriate sources for the information needed to address specific drug information questions in an efficient manner.	1,7	4.2	1,2,3	ES,RUB	1	N/A
4. Evaluate the quality and applicability of drug information within a source.	1,7	1.2	1,2,3	ES,RUB	2	N/A
5. Develop a professional drug information question response.	1,7	1.2,4.1,4.2	1	ES,RUB	3,4	1
6. Communicate drug information with clarity and accuracy at a level appropriate for the audience.	7,11	4.1,4.2	1,2	ES,RUB	4	1
7. Discuss the use of informatics in medication safety, practice assessment, and quality improvement.	3	3.2,3.3	3	ES	5	N/A

ES = ExamSoft; RUB = Rubric

Course Summative Assessment Methods

	Assessment Method	Description
1	Individual Project	*Individual drug information question response with peer feedback and revision*
2	Team Project	*Team evaluation of primary literature and journal club handout development*
3	Midterm and/or Final Exam	*Standard MCQ, select all that apply, fill in the blank, true/false, and/or short answer questions*

Grading Policy & Grade Calculation

Grades will be determined based on evaluation of individual and team readiness assessment tests (iRATs, tRATs), individual and team cumulative assessment tests (iCATs, tCATs), midterm examinations, final written examinations, skills assessments, graded application assignments, participation in team-based projects, peer evaluations and other assessment methods that may include, but not limited to, Objective Structured Clinical Examinations (OSCE). Examinations, RATs and CATs may consist of, but not limited to, multiple-choice, true/false, fill in the blank, short-answer, essay, and problem-based questions.

During the time the course is in progress, students whose cumulative course percentage falls below 70.0% may receive an academic alert and be subject to periodic course content review in special sessions with the course instructor(s). The student's faculty advisor may receive an academic alert to act upon on the student's behalf.

All examinations, tests, and assignments, including the final examination, may be **cumulative.** Students are responsible for material presented during the prior courses. The grading scale for all graded material is below. Please note that assignments turned in after the due date (late) will receive a points deduction, unless permission is granted by the course coordinator for extenuating circumstances. The final course grade will be assigned according to the calculated percentage and the percentages will not be rounded upward or downward. For additional information, see examination/assessment policy below.

PHAR 7219 Grade Calculation*

Individual Component	**95%**
iRATs	10%
Individual Applications	10%
Drug Information Question Response (DIQR)	20%
Journal Club (JC)	10%
Midterm Exam	20%
Cumulative Final Exam	25%
Team Component	**5%**
tRATs and Team Applications	5%
Total	**100%**

The final course letter grade will be determined according to the following grading scheme:

A	90 - 100 %
B	80 - 89.999 %
C	70 - 79.999 %
D	65.0 - 69.999 %
F	< 65.0 %

PHAR 7219 Course Schedule

Week	DAY	Format	TOPIC	INSTRUCTOR	CLO	Disease States
1	F 8/28/20* 10-11:50 AM	**Online**	• Course Overview • Drug Information: Ethical and Legal Aspects of DI Practice	Smith	1	S20.01
2	F 9/4/20* 10-11:50 AM	**Online**	• Drug Information: Types of Biomedical Resources • Drug Information: Electronic Resources	Smith	2,3	S20.01
3	F 9/11/20* 10-11:50 AM	**Online**	• Drug Information: Types of Primary Literature • Drug Information: Article Anatomy	Smith	2,3	S20.01
4	F 9/18/20* 10-11:50 AM	**Online**	• Drug Information: Systematic Approach to Answering Drug Information Questions • Communication: Writing Styles, Referencing, and Plagiarism • *DI Question Response (DIQR) Instructions*	Smith	3,5,6	S20.01
5	F 9/25/20* 10-11:50 AM	**Online**	• Drug Information: Navigating Library Resources, Article Citation Anatomy, and Literature Search Strategies	Skinner Smith	3	S20.01
6	F 10/2/20* 10-11:50 AM	**Online**	• Drug Information: Selecting Appropriate Resources for Drug Information Question Responses	Smith	3	S20.01
7	F 10/9/20* 10-11:50 AM	**Online**	Drug Information: Evaluating Randomized Controlled Trials (RCTs)	Smith	4	S20.01
8	F 10/16/20* 10-11:50 AM	**Online**	• Drug Information: Evaluating RCTs, continued • Drug Information: Journal Club Purpose/Overview • *Journal Club (JC) Instructions*	Smith	4,6	S20.01
9	<mark>M 10/19/20 8-9:30 AM</mark>	Online	**Midterm Exam**	ExamSoft	1-6	S20.01
---	F 10/23/2020	------	<mark>NO CLASS</mark> <mark>***Upload Team Journal Club Handout to Canvas by 11 pm***</mark>	------	---	----
10	F 10/30/20* 10-11:50 AM	**Online**	<mark>***Upload DIQR first draft to Canvas by 8 am***</mark> Drug Information: Evaluation of Other Primary Literature Study Designs	Smith	4,6	S20.01
11	F 11/6/20* 10-11:50 AM	**Online**	<mark>***Complete DIQR peer review in Canvas by 8 am***</mark> • Drug Information: Interpreting Clinical Practice Guidelines • Drug Information: Evaluating Direct-to-Consumer (DTC) Advertising, Pharmaceutical Rep Info, and Patient Resources	Van Dyke Smith	4	S20.01
12	F 11/13/20 10-11:50 AM	Online	<mark>***Upload DIQR final version to Canvas by 8 am***</mark> Informatics: Overview of Healthcare Data, Information and Knowledge	Parker	7	S20.01
13	F 11/20/20* 10-11:50 AM	**Online**	• Informatics: Healthcare Analytics and Quality Improvement Strategies • Patient Safety: Healthcare Informatics and Medication Safety	Veronin	7	S20.01
14			**11/27: Thanksgiving Holiday – NO CLASS**			
15	<mark>F 12/4/2020 10-11:30 AM</mark>	Online	**Cumulative Final Exam**	ExamSoft	1-7	S20.01
			RAT and/or Graded App *Dates, topics, and assignments are subject to change. In the event of a change, you will be given ample notification of the change.*			