

## Independent Study

PHAR 7299

Spring 2024

### Course Description

This independent study covers research topics that are not covered within the curriculum by organized pharmacy courses.

### Additional Course Description:

This course is designed to provide the student with an opportunity to participate in writing a research manuscript for publication. Students will also have an opportunity to learn how to analyze and interpret the experimental data and conduct experiments. Through this process/exercise, students will gain considerable knowledge in pharmacological or biomedical research.

### Course Credit

2 Credit Hours

**Pre-Requisite courses:** None

**Co-Requisite courses:** None

### Class Meeting Days, Time and Location:

Meeting days/time will be decided after the first meeting at the beginning of the semester; office (WTB 344) and/or lab (WTB 376)

### Course Coordinator

YanYan Wang, PhD.

W.T. Brookshire Hall Room 344

Phone: 903.566.6287

Email: [yanyanwang@uttyler.edu](mailto:yanyanwang@uttyler.edu)

Office hours: 3 hours; days/time will be decided after the first meeting at the beginning of the semester to accommodate the student academic schedule.

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.

These are available as a PDF at <https://www.uttyler.edu/pharmacy/academic-affairs/files/fcop-syllabus-policies.pdf>. 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

Course required materials are available through the Robert R. Muntz Library. These materials are available either online (<http://library.uttyler.edu/>) or on reserve.

Other research-related materials will be provided by the course coordinator. At the beginning of the semester, the course coordinator will discuss the possible research projects with the student, and the research materials will be provided accordingly.

### Course Format

The activities of the course may include, but are not limited to, the following:

1. Independent research and study of online readings and provided readings.
2. Term project: Project includes literature reviews, experimental data analysis and interpretation, and writing parts of a research manuscript for publication. The project will enhance the student's knowledge in pharmacological or biomedical research, help develop critical thinking ability, and enrich their educational experience in the Fisch College of Pharmacy.
3. The activities of the course may include: (i) review key information from literatures related to the research project in writing; (ii) analyze and summarize experimental data; (iii) plot graphs from experiment results; (iv) annotate bibliographies; (iv) summarize the functional implications or significance of the research findings.

### Course Learning Outcomes (CLOs)

1. Learn and summarize key information from literatures relevant to the research project.
2. Learn and apply methods of analyzing and summarizing experimental data.
3. Make intellectual contributions to the discussion of the research results.
4. Participate in writing some sections of the research manuscript to be published.

### Course Assessment Methods

	Assessment Method	Description
1	Assignments and assessments	Under the supervision of the course coordinator/instructor, the student will work on an independent research project involving analyzing real experimental data and writing parts of a research manuscript for publication.
2	Final overall project outcomes	Complete data analysis and write some sections of a research manuscript for publication; may present a poster at UTT Lyceum or another conference; gain insights in pharmacological/biomedical research.

### Grading Policy & Grade Calculation

Grades will be determined based on evaluation of the project, including quality of writing assignments, effort, and contributions to the research project. This is a research independent study, there will be no iRAT, tRAT, or Team applications. This independent study is to train the student how to conduct scientific research and to improve critical thinking ability.

All examinations, tests, and assignments, including the final examination, may be **cumulative**. Students are responsible for material presented during prior courses. The grading scale for all graded material is below. 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 Part 2 of the syllabus

(<https://www.uttyler.edu/pharmacy/academic-affairs/files/fcop-syllabus-policies.pdf>).

During the time the course is in progress, students who obtain less than 75% on any summative assessment or a total course grade of less than 75% during a particular semester will receive an academic alert from the course coordinator and the Office of Academic Affairs and be subject to weekly in-course remediation with the course instructor(s).

### Standard Grade Calculation\*

Performance of Weekly Activities: 50%

Final Results of Project: 50%

***\*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 7299 Course Schedule

Week	TOPIC	Instructor	CLO
1	Introduction to Course & Project Discussion/Determination	Wang	1
2	Preliminary Search and Review the Literature	Wang	1
3 - 14	Design and Execution of Project	Wang	1-4
15	Presentation and Reporting of Project	Wang	4