



Jordan University of Science and Technology
Faculty of Pharmacy
Pharmacy Department

PHAR700 Scientific Writing And Research Ethics - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

2 Credit Hours. This course covers the topics relevant to research methods, including literature search, principles of scientific writing, research proposal, thesis preparation, and manuscript writing. It focuses on aspects in research ethics, research misconduct, data management and presentation, human participants and animal subjects in research, and laboratory safety. This will be covered by writing a research proposal of a selected subject of the student's interest.

Teaching Method: Blended

Text Book

Title	Ethics in Scientific Research: An Examination of Ethical Principles and Emerging Topics
Author(s)	Cortney Weinbaum et al.
Edition	1st Edition
Short Name	Ref #1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Science Research Writing for Non-Native English Speakers	Hilary Glasman-Deal	1st Edition	
Ref #3	The Code of Research Ethics at Jordan University of Science and Technology (JUST)	JUST	1st Edition	
Ref #4	Best American Science & Nature Writing	Jaime Green, and Michio Kaku	1st Edition	
Ref #5	Research and review articles, reading materials, and recorded videos	Course Instructors	1st Edition	

Instructor

Name	Dr. Shreen Nusair
Office Location	P2L0 - Office 118
Office Hours	
Email	sdnusair@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Thu : 13:30 - 14:30
Room: قاعة الكندي/صينيلة

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Course agenda and course overview and confidentiality agreement	From Ref #1

Week 2	Introduction into principles for scientific writing	From Ref #1, From Ref #2
Week 3	Plagiarism	From Ref #1, From Ref #3
Week 4	Citations & software tutorial	From Ref #5
Week 5	Research on animals: methodology, regulations, and ethics (ACUC guidelines)	From Ref #3
Week 6	Ethical Principles for Scientific Research	From Ref #1
Week 7	Research on Human: Regulations and ethics	From Ref #1, From Ref #3
Week 8	Informed Consent and Protocol - Institutional Review Board (IRB)	From Ref #3, From Ref #5
Week 9	Research misconduct (definition and penalties)	From Ref #1, From Ref #4, From Ref #5
Weeks 10, 11, 12	Presentations of the proposals & defenses	From Ref #1, From Ref #2, From Ref #3, From Ref #4, From Ref #5

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Demonstrate advanced knowledge in the foundations of research methods and ethics [1PLO1.1] [1L7K1, 1L7S2]	20%	Journal summary & critique
Evaluate clinical research and other studies including reviews, clinical trials and observational studies [1PLO2.1] [1L7S1]	30%	Journal summary & critique
Demonstrate the ability to team-work, scientific collaboration, writing and presentation [1PLO3.2, 1PLO3.1] [1L7C1, 1L7C3]	50%	Proposal writing, Defense

Relationship to Program Student Outcomes (Out of 100%)															
PLO1.1	PLO2.1	PLO3.2	PLO3.3	PLO2.2	PLO2.3	PLO2.4	PLO3.1	PLO3.4	PLO3.5	PLO3.6	PLO4.1	PLO4.2	PLO4.3	PLO4.4	PLO5.1
20	30	25					25								

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S1	L7S2	L7C1	L7C3
10	30	10	25	25

Evaluation	
Assessment Tool	Weight
Journal summary & critique	30%
Ethical cases	20%
Proposal writing	30%
Defense	20%

Policy	
Quizzes	<ul style="list-style-type: none"> - Quizzes (if any) covers selected material - Dates of testing will be announced later - Incomplete quizzes need approval from the dean.
Attendance	<p>According to JUST policy requires the faculty member to assign ZERO grades (35) if a student misses 10% of the classes that are not excused.</p> <ul style="list-style-type: none"> - Attendance is mandatory and will be recorded regularly. - Excellent attendance is expected. - If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.

<p>Evaluation process, active learning and students participation</p>	<p>To achieve the goals of this course there are four requirements:</p> <p>1- Journal club summary & critique (30 marks): This assignment is done by each student separately (individual work). Therefore, every student select two related scientific articles (any area you like) to summarize each one and compare between both (e.g., used methods, study population species and types, analysis methods, inspected drugs or toxins, etc.) in a couple of paragraphs of around 200-300 words. Also, add your insights and opinions regarding the general approach of both articles (e.g., which one is best to analyse the problem or disease or drug,, and what other points or analysis or modifications of the research methods that would create better outcomes). The due date will be assigned in the assignment link below and late submission will cost marks. Further details and instructions will be explained during lectures.</p> <p>2- Ethical case analyses (20 marks): This assignments is done by each student separately (individual work). Therefore, every student will be given ethical case(s) to analyse and critique on paper or in class during active discussion sessions. The due dates will be announced later.</p> <p>3- Proposal writing (30 marks): This assignment is done by a team of 5 to 6 students (you are free to select your team members). The team leader will divide roles between the members (e.g., collect information, proposal drafting, editing, referencing, etc.) and all will have to determine the title, targeted population, methods and aims of the proposal (e.g., effect of APAP on rats liver and ameliorative effect of Vit C). You may select to work wet (using samples) or dry (using questionnaires), work on animals, humans or tissue cultures. you will contact an assigned instructor to make sure of your title, methods suitability and general track of the proposal. Also, you will have instructions on how to fill the proposal form (Form A) from the Deanship of Research. Due date will be assigned below in the link of the proposal. Once you are done upload your proposal in a PDF format. Late submission will cost marks.</p> <p>4- PPT presentation (20 marks): This assignment is done by the same proposal team of 5 to 6 students. You will create a PPT to present your proposal and defend your theory and goals of your designed study. The team leader will divide roles between the members (e.g., prepare slide, editing, referencing, etc.). Presentation skills of each members, and working as a team, organization, and time management will be evaluated using a rubric form. 10 marks will be for the individual skills, and 10 marks will be on the team work. The due date will be announced later. More detailed instructions will be given during upcoming lectures.</p> <p>- Students are expected to actively participate in class discussions.</p>
<p>Cheating</p>	<p>Prohibited; The commitment of the acts of cheating and deceit such as copying during examinations, altering examinations for re-grade, plagiarism of homework assignments, and in any way representing the work of others as your own is dishonest and will not be tolerated. Standard JUST policy will be applied.</p> <p>المادة 7: إذا ضبط الطالب أثناء الامتحان أو الاختبار متلبساً بالغش فتوقع عليه العقوبات التالية مجتمعة أ- اعتباره راسباً في ذلك الامتحان أو الاختبار ب- إلغاء تسجيله في بقية المساقات المسجل لها في ذلك الفصل ج- فصله من الجامعة لمدة فصل دراسي واحد، و هو الفصل التالي للفصل الذي ضبط فيه</p>
<p>Withdraw</p>	<p>- According to dates specified on the university calendar. Usually the last day to drop the course is before the twelve (12th) week of the current semester.</p>
<p>Classroom Etiquette</p>	<p>- Respect</p> <ul style="list-style-type: none"> o Respect people, places, and things. o Raise your hand to speak. o Listen respectfully. o Food and drink are not permitted in class. o Do not engage in aside conversations. <p>- Participation or Disruption:</p> <ul style="list-style-type: none"> o Do not hesitate to ask questions at any time, especially if you are unsure of something. o Listen to other students' questions to avoid asking the same question five minutes later. o Allow your classmates to participate in class discussions and refrain from taking advantage of all opportunities for active participation. <p>- Cell Phones and Electronic Devices:</p> <ul style="list-style-type: none"> o Texting is not permitted in class. o The use of cell phones, smartphones, or other mobile communication devices is disruptive and is therefore prohibited during class without permission. o Your phone should be turned off. If you must keep your phone on, you should set it to vibrate or silent mode and leave class if you receive an emergency call. o Except in emergencies, those using such devices must leave the classroom for the remainder of the class period. o Do not use your laptop in class for browsing the Internet or using social media while in class. <p>- Missing a Class</p> <ul style="list-style-type: none"> o Do not miss classes. It is not appropriate to ask the professor if you missed anything important if you miss class. Obviously, something of importance was missed, you missed a whole class! o Whenever you are absent from class, it is your responsibility to make up the work and to get notes, not your professors. o If you need to leave early, notify the instructor. <p>- Be Punctual</p> <ul style="list-style-type: none"> o Make sure you arrive to class on time.

Email Etiquette	<ul style="list-style-type: none">- Type your email in the body of the email NOT in the subject line.- Provide a clear subject line. Keep it short and to the point, but not vague. Name, class, and what the email is specifically about should be in the subject line.- Body of the email: Your emails should always start with a formal greeting like you would in a letter, be brief (one screen length), check your spelling/grammar/punctuation, use a professional font (not decorative), and include a salutation aligned with your message (Thank you or Sincerely).- Avoid sending an email to your professor asking about grades or complaining about them. Schedule an appointment to meet in person to discuss areas for improvement if you have inquiries.- Consider the impression your tone will make in the email. It is recommended waiting 24 hours before sending an email or responding to an email if you are emotionally charged.- It is not appropriate to write in ALL CAPS. This conveys the impression that you are shouting at the recipient.- Make sure you read and reread your email before sending it. Make sure your emails are grammatically correct, have proper titles, and are properly spelled.- If you have multiple questions or the message runs long, you might consider revising the message or scheduling a face-to-face meeting.- You should double-check your ATTACHMENTS. Refer to your attachments within the body of your email. It is advisable to avoid attaching large files and to consider sending the document as a PDF.- Please allow sufficient time for a response. The sender and receiver should both allow sufficient time. As a rule of thumb, 24 work hours should be given. If sending emails after official work hours or during formal vacations, a delay in response is expected. Following that, if no response is received, you can follow up.- Effective Email Writing: Template for Email: Subject, Salutation, Introduce yourself, Your request, Closing remarks, Your name.
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