

PHA6935: Principles of Peer-Reviewed Biomedical Publications 3 credit hours

Note: The final syllabus posted in the course Canvas site is the most current and supersedes the syllabus posted on the internet.

Class Meeting Times

This is a 12-week, asynchronous course beginning Sunday May 12, 2024. There are no synchronous class meetings.

Class Meeting Location

Modules are accessed online via UF's e-learning system, Canvas. If you are having trouble accessing the course Canvas site, please contact Distance Education Support Services at <u>ahc-dess@ufl.edu</u>.

Instructors

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Laura E. Happe, PharmD, MPH (she/her) Associate Clinical Professor Director, Online Graduate Program, Pharmaceutical Outcomes and Policy <u>happe@ufl.edu</u> Phone/Text: 727.488.2700 Office Hours: By appointment, before, or after class meetings Office Location: via Zoom or phone

Course Description

Students will learn principles fundamental to the ethical and responsible publication of peer-reviewed biomedical content. Skills gained will relate to the purpose and importance of best practices and ethical standards in the conduct and reporting of research, the roles and responsibilities involved in peer-reviewed

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publishing, and the principles and practices of sound publication planning, development, publication, and post-publication.

Course Objectives

Upon successful completion of this course, the student will be able to:

- 1. Explain the rationale for best practices and ethical standards in the conduct and reporting of research and other material published in peer-reviewed biomedical journals.
- 2. Recall the scope and general principles of key best practice guidelines related to peer-reviewed biomedical publishing, including publication planning and publication development.
- 3. Differentiate the roles and responsibilities of authors, contributors, and others involved in peerreviewed biomedical publishing, as well as common types of biomedical publications.
- 4. Recall the elements of a publication plan and develop components of a plan based on sound ethics and planning principles.
- 5. Evaluate manuscripts for compliance with research reporting guidelines.
- 6. Analyze the quality of data visualization and storytelling in manuscripts.
- 7. Identify the procedures for publishing a manuscript, inclusive of journal process, copyright assignment, and post-publication activities.
- 8. Articulate the importance of transparency and inclusivity in peer-reviewed biomedical publishing and how certain practices can promote and support these.
- 9. Analyze case studies for adherence to appropriate best practices and ethical standards and justify applicable corrective action when necessary.

Relationship to Program-level Student Learning Outcomes

This course pertains to the following program-level student learning outcomes:

- 1. Assess the value of a pharmaceutical product using systematic reviews, meta-analyses, and value messaging practices.
- 2. Create evidence-based communications that are compliant with regulations and convey the value story of a pharmaceutical product that uses data-driven visuals.

Required Textbooks and/or Software

There is no textbook or special software required for this course.

Throughout this course, students will utilize Canvas to navigate module activities including but not limited to, reviewing recorded lectures, completing reading assignments, participating in discussion boards, and demonstrating learnings through various assessments.



Online Graduate Program onlinepop.pharmacy.ufl.edu Recommended Materials None

Course Pre-Requisites None

Structure and Organization

This course is organized into five modules through which students will advance on their own. The assigned work (e.g., lectures, readings, discussion boards, and assessments) for each module can be accessed via the corresponding link on the course home page in Canvas. It is recommended that students proceed through the material in the order in which it appears, as later topics may build on previous ones.

Due dates for assigned work will also be listed in Canvas and students can easily view these using the calendar from the main Canvas menu. While students are required to submit all assigned work by the due date, work may also be submitted any time prior to the due date. Please note that early submissions may not be graded until after the due date.

Module	Topics	Learning activities/Assessments
1: Introduction	 Standards in the conduct and reporting of research Publication guidelines Publication terminology Publication professional roles Publication types 	Pre-recorded lectures • Best Practices and Ethical Standards in the Conduct and Reporting of Peer-reviewed Biomedical Research • The Belmont Report • Common Terms in Peer-reviewed Publishing • Article Types in Biomedical Journals Required readings • The Belmont Report • What have we learnt from Vioxx? • Good Publication Practices • Glossary • Supplement A: Publication Types (except subsection on Secondary Publications) • Supplement B: Publication Professional Roles and Development (sections on Professional Roles, Professional Development, and Sharing Best Practices) Assessments – Due May 26 • Quiz 1 • Short essays

Course Schedule



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2. Dublication	1 Ethical mublication prostings	Due verended lectures
2: Publication	1. Ethical publication practices	Pre-recorded lectures
ethics	2. Research integrity in publishing	General Ethical Publication Principles
	3. Transparency and inclusivity in	Protecting Research and Data Integrity in Biomedical
	publishing	Publishing
	4. Research registries	Data Transparency and Inclusivity in Biomedical
	5. Disclosures	Research and Publishing
	6. Plain language summaries	Open Access Explained
	 Open access Authors, medical writers, and 	Required readings
	contributors	Lecture readings
	contributors	General ethical publication principles
		 GPP General Principles for Ethics and Good
		Publication Practice (n=8)
		• Supplement C. Ethical Principles
		Research integrity in publishing
		 ICMJE Protection of Research Participants
		• GPP: Principles for Protecting Research and
		Data Integrity (n=2)
		Transparency and inclusivity in publishing
		• GPP Principles to Support Inclusivity (n=4)
		• GPP Principles to Promote Transparency (n=5)
		Disclosures
		ICMJE: Disclosure of Financial and Non-Financial Deletimetries and Activities and Conflicts of Interest
		Relationships and Activities, and Conflicts of Interest
		ICMJE: Disclosure of Interest Form
		• The sunshine act and medical publications: Guidance
		from professional medical associations
		Additional transparency/inclusivity tools
		ICMJE Publishing & Editorial Issues: Clinical Trials
		Open Pharma recommendations for PLS
		 ISMPP: A multistakeholder discussion on open access
		and medical publishing (sections 5-8, pg 11-19)
		Authors, contributors, and medical writers
		 GPP sections on authors, medical writers, and contributors;
		contributors: Principles for Authorship, Contributorship, and
		 Accountability (n=4) Supplement G: Authorship and
		Contributorship Determination
		 Supplement H: Publication Process (sections
		on Working with Professional Medical Writers
		and Acknowledgements, Disclosures, and
		Author Statements)
		ICMJE: Defining the Role of Authors and Contributors
		 AMWA/EMSW/ISMPP Joint Statement on the Role of
		Professional Medical Writers
		Ghostwriting in biomedicine



		Additional readings/resources
		 Contributor Roles Taxonomy (CRediT)
		 Wiley Author Services: CRediT
		ORCID
		Assessments – Due June 16*
		• Quiz 2
		Clinicaltrials.gov search
		Plain language summary evaluation
		Disclosure policy activity
		Case study: Authorship
		Case study: Culturally offensive content
		Case study: Research integrity
		• *Discussion board: Challenges to implementing ethics
		 Post 1 – Due June 2
		 Post 2 – Due June 9
		 Post 3 – Due June 15
3: Publication	1. Publication planning	Pre-recorded lectures
planning	2. Policies and procedures	Practical Publication Planning Principles
	3. Publication steering committee	Good Publication Plan Principles
	Good publication plan principles	Publication Steering Committees
	5. Journal and conference selection	How to Select a Journal
	6. Predatory publishers	Developing the Publication Plan
	7. Developing a publication plan	Required readings
		Good Publication Practices
		 Practical Planning Principles
		 Supplement B. Publication Professional Roles
		and Development (subsection on Developing
		Publications Policies and Procedures only)
		 Supplement D. Publication Steering
		Committees
		• Supplement E. Publication Plans
		• Supplement H. Publication Process (section on
		Journal and Conference Selection only)
		It Takes a Village: The Value of Publication Planning
		with Functional Partners and External Stakeholders
		Think and Act Globally When It Comes to Publication
		Planning
		WAME Identifying Predatory or Pseudo-Journals
		Journal Citation Report
		Additional readings/resources
		 AMWA-EMWA-ISMPP joint position statement
		on predatory publishing
		COPE Predatory Publishing Thick, Charles Calendia
		Think. Check. Submit.
		Distinguishing Predatory from Reputable Publishing Drastice (hu Dr. Hanne)
		Practice (by Dr. Happe)



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4: Publication development 1. Publication working groups 2. Data sharing 3. IMRAD 4. Storytelling in manuscripts 5. Research reporting guidelines 6. Data visualization – tables and figures 7. Overlapping publications 8. Plagiarism	 Beall's List ICMJE Responsibilities in the Submission and Peerreview Process Web of Science PubMed DOAJ JANE – Journal/Author Name Estimator Springer – How to choose a target journal Springer – Journal Suggester Developing a Strategic Publication Plan: A Visual Survival Kit Components of a Strategic and Tactical Publication Plan Assessments – Due July 7 Quiz 3 Publication planning policy analysis Journal Citation Report search Journal and conference selection activity Case study: Policy and procedure Pre-recorded lectures Publication Development Reporting Guidelines Thread Test Good Tables Good Tables Supplement F. Publication Process (sections on Data Sharing, Publication Process (sections on Data Sharing, Publication Rick-off, Publication Draft [except subsections], and Review and Approval) ICMJE: Preparing a Manuscript for Submission to a Medical Journal Reporting Guidelines CONSORT 2010 Statement STROBE statement CHEERS 2022 statement Oxol Publication Practices Supplement A. Publication Types (subsection on Secondary Publication Sonly)
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		 Supplement H. Publication Process (subsection on Plagiarism and Plagiarism Detectors) ICMJE Overlapping Publications (except section on preprints) Text recycling guidelines Avoiding plagiarism, self-plagiarism, and other questionable writing practices: A guide to ethical writing (subsection on redundancy, publication overlap and other forms of duplication, pg 18-24) Additional readings/resources "It was a cold and rainy night": Set the Scene with a Good Introduction Who, What, When, Where, How, and Why: The Ingredients in the Recipe for a Successful Methods Section Show Your Cards: The Results Section and the Poker Game The Discussion Section: Your Closing Argument The write stuff Writing a page-turner: how to tell a story in your scientific paper The Writer's Diet Describing deprescribing trials better: an elaboration of the CONSORT statement PRISMA 2020 explanation and elaboration CHEERS explanation and elaboration Overlapping Publication Terminology List Assessments – Due July 21 Quiz 4 Reporting guidelines evaluation Writing techniques, tables, and figures critique
5: Journal submission, publication, and beyond	 Journal submission Documentation guidelines Copyright Letters to the Editor Corrections Retractions Altmetrics Preprints Embargos Enhanced content 	 Case study: Overlapping publications Pre-recorded lectures Journal Submission and Publication Copyrights in Peer-reviewed Publications Post-publication Concerns Altmetrics Required readings Lecture Readings Good Publication Practices Supplement H. Publication Process Subsection: Permissions for the Use of Copyrighted Materials



	Comprehensive – multiple choice, timed	Due August 4
		 Post 2 – Due August 4
		• Post 1 – Due July 28
		*Discussion board: Course reflections
		Case study: Post- publication plagiarism detection
		Author guideline activity
		Assessments – Due August 4*
		<u>Altmetric.com</u>
		Altmetrics
		FDA: Using Social Media for Industry
		Social media
		COPE Preprints
		Preprints
		and Retraction
		 ICMJE Scientific Misconduct, Expressions of Concern,
		Version Control
		 <u>Post-publication concerns</u> ICJME Corrections, Retractions, Republications and
		<u>Creative Commons Licensing Explained</u> (4 min)
		<u>Copyright</u> (9:03)
		<u>Creative Commons</u> <u>Converget (0.02)</u>
		ICMJE Copyright
		Copyright
		getting your research published
		Authors' Submission Toolkit: A practical guide to
		Additional reading/resources
		AMWA research study
		Enhanced Content
		ICMJE Journals and the Media
		only)
		ICMJE Overlapping Publications (section on Preprints
		accepted manuscripts
		subsection on Journal posting of preprints or
		 Supplement H. Publication Process –
		embargos (also covered in module 3)
		 Supplement Table 3 – entries on preprints and
		Good Publication Practices
		Preprints and Embargos
		ICMJE Sending the Manuscript to the Journal
		 Supplement I. Documentation Guidelines
		 Section: Post-publication Activities
		Posting of Preprints or Accepted Manuscripts]
		Page Proofs [except subsection on Journal
		 Section: Journal Submission, Peer Review, and
		Enhanced Content
1		 Subsection: Plain Language Summaries and

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Evaluation Methods

Quizzes (20%)

Each module will have a corresponding quiz covering all assigned module content. Questions may be in various formats including but not limited to multiple choice, matching, short answer, and fill-in-theblank. Refer to individual quizzes for due dates.

Assignments (30%)

Assignments will consist of various formats. For example, these may be short essay topics, or students may be provided with an article and be required to compare it to relevant best practice guidelines. Assignments will relate to topics covered in their corresponding module. Refer to individual assignments for the specific requirements that must be met for each and their due dates.

Case Studies (20%)

Case studies will require students to analyze a given scenario for its adherence to appropriate best practices or ethical standards. Students will be provided with a case description followed by relevant questions to consider. Case study topics will relate to topics covered in their corresponding module. Refer to individual case studies for the specific requirements that must be met for each and their due dates.

Discussion Boards (15%)

Students will participate in discussion boards throughout the course. While discussion board prompts will be associated with a particular module, students may be required to synthesize topics covered throughout the course in their posts. Refer to discussion boards for the specific requirements that must be met for each and their due dates.

Discussion board posts should consist of a substantive comment. This means they should demonstrate understanding of significant ideas relevant to the issue, elaborate with accurate explanations or evidence, provide accurate information, distinguish fact from opinion, stimulate inquiry through thoughtful posts, ask clarifying questions, synthesize points of agreement or disagreement, attempt to motivate the group discussion, and present creative approaches to the topic. Posts should also include citations when appropriate. All citations should be in AMA format.

Final Exam (15%)

There will be a comprehensive final exam due at the end of the 12-week semester covering content from all course modules.

Instructor Feedback Timeline

Grades and feedback from the instructor will be posted within 7 calendar days of the due date.



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Attendance Policy for Online POP

Students are expected to formally <u>drop or withdraw</u> from the course if they no longer wish to participant. See the program's <u>Academic Calendar</u> for applicable deadlines. In some cases, the University may automatically drop students for inactivity and/or for failure to pay tuition. It is crucial for students to communicate with the DESS (<u>ahc-dess@ufl.edu</u>) about their status in the course, and about any tuition deferments or other special conditions related to their tuition payment. Any student who remains enrolled in the course after the drop/add deadline is considered tuition-liable, unless exempted by University petition. The official UF Attendance Policy can be found <u>here</u>.

Late Assignment/Make-up Policy

Each assignment is posted with a clear due date. **Assignments that are not submitted by the due date will be given a zero.** The instructor will consider extenuating circumstances on a case-by-case basis – if they are contacted by the student in advance of the due date. No other makeup assignments are offered. Contact the instructors for any concerns.

Grading Policy

The only passing grades for graduate students are A, A-, B+, B, B-, C+, C, and S. Grades of B-, C+ or C count toward a graduate degree if an equal number of credits in courses numbered 5000 or higher have been earned with grades of B+, A- and A, respectively. Grade points are not given for S and U grades; S and U grades are not used to calculate grade point averages. All letter-graded courses eligible to count toward the graduate degree, except 1000- and 2000-level courses, are used to calculate the cumulative grade-point average. Letter grades of C-, D+, D, D- or E are not considered passing at the graduate level, although the grade points associated with these letter grades are included in grade point average calculations. See the <u>UF graduate academic regulations</u> for more information.

- A >92.500%
- A- 89.500-92.499%
- B+ 86.500-89.499%
- B 82.500-86.499%
- B- 79.500-82.499%
- C+ 76.500-79.499%
- C 72.500-76.499%



- C- 69.500-72.499%
- D+ 66.500-69.499%
- D 62.500-66.499%
- D- 59.500-62.499%
- E <59.499%

Course Technology Support

Your instructor is not able to handle technological issues or answer questions related to computer issues.

- Assistance accessing course Canvas page: Contact Distance Education Support Services at <u>ahc-dess@ufl.edu</u>
- **IT Support:** Contact UF Computing Help Desk at 352-392-HELP (4357) or <u>helpdesk@ufl.edu</u> or submit an <u>online request form.</u> If a technical problem causes you to miss an assignment, you must report the problem to the Help Desk and then email your instructor your Help Desk ticket number to the instructor in order to receive an extension.

Students Requiring Academic Accommodations

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the <u>Disability Resource Center</u>. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

Course technologies meet online learning accessibility standards for sight and hearing-impaired learners. Likewise, course materials are developed in accordance with accessibility standards. Course documents and webpages are formatted for screen-reader accessibility with the use of headings, styles, or alternative text tagging for images. Accessibility design tools in Microsoft Office products and in Canvas are used to evaluate and update accessibility issues detected in the instructional materials. Synchronous class sessions in Zoom are recorded. These recordings are posted to the course site to accommodate students unable to attend.

- <u>Canvas Accessibility</u>
- Zoom Accessibility

Course Evaluations

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. <u>Click here for guidance on how to give</u>

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<u>feedback in a professional and respectful manner</u>. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <u>ufl.bluera.com/ufl/</u>.

University Honesty Policy and Academic Integrity

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." <u>The Honor Code</u> specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Regarding academic integrity, students in the program are strongly encouraged to be mindful of what constitutes plagiarism. Written assignments that contain the research or other original published work of someone else must be properly quoted, cited, paraphrased, or referenced appropriately. A software (TurnItIn) that is integrated with Canvas Assignments may be utilized to help students determine if a written submission meets the criteria for a properly referenced research paper. Please ask for help, utilize resource materials and take advantage of opportunities like creating a draft of your paper to test, ensuring you have addressed any errors prior to the final submission.

Please watch these short videos about this topic:

- <u>Understanding and Avoiding Plagiarism: Types of Plagiarism</u>
- Avoiding Plagiarism

Software Use and Course Technology

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

The University policy on use of ChatGPT is available here.

Educational technology in the program is primarily the Canvas Learning Management System (LMS) and Zoom web conferencing software. These tools firmly support learning objectives and course goals. Writing with



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communication tools, reading articles from digital collections, and viewing video presentations in high-quality, accessible formats are essential to facilitate meaningful learning experiences. These experiences expand knowledge and influence professional work habits and skills such as information-gathering techniques and evidence-based practice. Synchronous class sessions in Zoom provide learners with opportunities to gain confidence and practice how they interact and collaborate in online meetings.

- <u>Canvas Student Guide</u>
- Zoom Resources

A minimum number of other technical skills are required for success in the online courses. These include accessing course webpages to read text and listen to recorded videos, using word processing tools (MS Word, PowerPoint), downloading/uploading content, submitting online assignments and using a variety of communication tools (Canvas Inbox, Discussions, Zoom Conferences).

Course Communication

Canvas (Inbox tool) will be used as the primary communication tool between the instructor and students. Check daily for new announcements or notifications about course updates. UF email will also be used occasionally for mass communication to the class, so please check your email at least once a day as well. All emails sent out to the entire class will also be posted as an Announcement on Canvas. The instructor will generally respond to student messages within 48 hours.

General questions about course content (e.g., assignments or lectures) or policies should be posted to the course discussion board. We expect students to help each other track down answers as best as possible. Read through all the other posts in the discussion board first before posting to make sure your question has not been addressed/answered already. Please include a clear subject title for your topics to make it clear what your post pertains to. The instructor will generally respond to questions posted on the course discussion board within 48 hours.

Emotions can easily be misinterpreted on a discussion board/emails, so make sure your message is clear before sending it since there are no physical gestures or voice inflections that accompany posts/emails. Any posts/emails deemed inappropriate by the faculty will be dealt with on a case-by-case basis with either the faculty directly or they will be sent on to the Associate Dean for Professional Affairs.

For personal issues/questions, please email your instructor. Be sure to include in your subject line the course listing and then a quick subject (e.g., PHAXXXX – Your Name -). This will allow instructors to quickly identify emails related to the course amongst the many emails that are received each day. Emails not correctly addressed may get lost in the shuffle and unintentionally deleted or ignored so be sure to follow the

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Student Privacy

There are federal laws protecting your privacy in terms of grades earned in courses and on individual assignments. For more information, please see the <u>Notification to Students of FERPA Rights</u>. Recordings of weekly class sessions in Zoom are created for the purpose of course teaching and learning, as well as for use as a resource for students who miss a class session.

The use of video (or web camera) feature in Zoom is not a requirement, but rather is voluntary for meeting participants. For both the audio and video features in Zoom, you will have the option to Start or Stop these functions.

Students who participate with their camera engaged or who utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

- Zoom Software Privacy Statement
- <u>Canvas (by Instructure) Privacy Policies</u>

Security

Online activity in Canvas requires an active UF GatorLink account to log in, as well as enrollment in courses. The Zoom Conference meetings for weekly classes are accessed within Canvas. These meetings have a pass code applied as an additional security setting. Students in the class do not need to enter the passcode, however anyone not enrolled in the course cannot join the meeting without it.

Library Resources

For remote access to UF library resources such as e-journals or other digital collections, use the <u>UF VPN or proxy</u> server to connect.



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Additional University Resources

- **U Matter, We Care:** If you or a friend is in distress, please contact <u>umatter@ufl.edu</u> or 352 392-1575 so that a team member can reach out to the student.
- <u>Counseling and Wellness Center</u>
- Sexual Assault Recovery Services (SARS): Student Health Care Center, 392-1161.
- University Police Department at 392-1111 (or 9-1-1 for emergencies), or police.ufl.edu
- <u>E-learning technical support</u>: 352-392-4357 (select option 2) or e-mail to Learningsupport@ufl.edu.
- Teaching Center: Broward Hall, 392-2010 or 392-6420. General study skills and tutoring.
- <u>Writing Studio</u>: 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers.
- <u>Student Complaints</u>



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