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BIOM 4802/6802: Assertion-Evidence Model for Presentations in Engineering and Science (Syllabus)

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BIOM 4-6802: Assertion- Evidence Model for Presentations in Engineering and Science Syllabus

Course Information

Course Director

1. Amber Jennings PhD

Credit hours

2 credit hours (Lecture ; Conventional Methodology Instructional Method

Course Description

This course will provide training and practice in delivering scientific presentations to diverse audiences. Students will design and deliver presentations of scientific data for different audience categories.

Course Objectives

At the end of the course, students will be able to:

- Recognize critical errors in presentation delivery
- Use Assertion-Evidence Style to design presentation slides
- Communicate effectively with a range of audiences

Prerequisites and Corequisites

Prerequisite: ENGL 2201/2202

Course Topics

The following is the sequence of course topics.

- Introduction
- Knowing your audience
- Slide structure
- Visual design of slides
- Writing a script
- Delivery
- Scientific poster design
- Entrepreneurial pitches
- Resume
- Interviewing

Specific Course Requirements

Knowledge of Microsoft Powerpoint, Adobe pdf, and scientific writing are required to compose presentations. U of M BME will provide software resources.

Textbooks, Supplementary Materials, Hardware and Software Requirements

Required Textbooks

The Craft of Scientific Presentations: Critical Steps to Succeed and Critical Errors to Avoid (2nd Edition). Michael Alley. Springer Verlag. Available as an ebook from the UM Library (permalink below).

<http://eds.a.ebscohost.com/eds/detail/detail?vid=1&sid=48919f8f-6e02-46f7-b004-db29469eab8d%40sdc-v-sessmgr02&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3F>



- 978-1-4419-8279-7

Supplementary Materials

none

Hardware and Software Requirements

Microsoft Teams will be used to manage assignments and tasks.

Kritik will be used for peer evaluation. <https://us.kritik.io/course/605ce0b42f7b1f2082dbc261> 

Most assignments will be uploaded onto this platform prior to grading.

Assessment and Grading

Testing Procedures

Students will deliver presentations to different audiences, either recorded, delivered online, or in person. Audiences may consist of BME students and faculty, K-12 students, and/or industry representatives. Students taking the course at the 6000 level will be required to provide critiques of weekly departmental seminars as well as deliver one 12-15 min presentation on their research topic during the departmental seminar.

Grading Procedure

Homeworks and presentations will be scored according to rubrics which will be published on ecourseware. Rubrics are designed to assess student ability to design and deliver presentations and engage the audience effectively.

Grading Scale

90-100---A
80-90---B
70-80---C
60-70---D

Final grade will be determined by dividing assignments into categories with the following weight toward the final grade.

10%: Homework and Quizzes

40%: Participation and attendance

50%: Presentations (2 presentations delivered in class; students enrolled in graduate level 6802 course must also deliver one additional presentation to the weekly seminar in BME or other local professional meeting as determined by the course director)

Class Participation

Students must participate in all interactive aspects of the course. Students must check the course bulletin board frequently for announcements. Students must actively participate in class discussions and are expected to provide peer review for assignments of others. Peer review completion and scoring on the Kritik system will be used to assess participation.

Punctuality

Students are expected to read announcements and communications from the professor in order to make progress through the course and turn in assignments in a timely manner.

Course Ground Rules

1. Students must use the assigned university e-mail address rather than a personal e-mail address
2. Students are expected to learn how to navigate Canvas and keep abreast of course announcements
3. Students are responsible for all material, whether covered in class or as part of an assignment.
4. No late assignments (homework, reports) will be accepted. Late assignments will be assigned a score of zero, unless prior documentation and permission from the instructor has been approved.
5. Academic misconduct (copying or plagiarism) will not be tolerated and may lead to dismissal from the program.
6. You are expected to participate actively in discussion.
7. Absences from exams require prior documentation and approval from the instructor. Student is responsible for scheduling makeup exams.
8. You are responsible for determining the availability of computing resources used in the class and for scheduling work accordingly.
9. Students must observe course netiquette at all times.
10. You must fully comply with all university guidelines and applicable laws regarding the use of and software that may be provided for this course.
11. Students should address technical problems immediately
12. Policies may be revised or augmented as required during the term.

Guidelines for Communication

Email

- Always include a subject line.
- Remember without facial expressions some comments may be taken the wrong way. Be careful in wording your emails. Use of emoticons might be helpful in some cases.
- Use standard fonts.
- Do not send large attachments without permission.
- Special formatting such as centering, audio messages, tables, html, etc. should be avoided unless necessary to complete an assignment or other communication.
- Respect the privacy of other class members



Peer review

- Do not make insulting or inflammatory statements to other members of the class. Be respectful of others' ideas.
- Be patient and read the comments of other group members thoroughly before entering your remarks.
- Be positive and constructive in group discussions.
- Respond in a thoughtful and timely manner.


Web Resources

- [Columbia Guide to Online Style](#) by Janice R. Walker and Todd Taylor

Plagiarism and Integrity

Plagiarism, cheating, and other forms of academic dishonesty are prohibited. Students guilty of academic misconduct, either directly or indirectly, through participation or assistance, are immediately responsible to the instructor of the class in addition to other possible disciplinary sanctions which may be imposed through the regular institutional disciplinary procedures. Expectations for academic integrity and student conduct are described in detail on the website of the [Office of Student Accountability](#) . Please read in particular, the section about "[Academic Misconduct](#) .

Turnitin.com

Your written work will be submitted to [Turnitin.com](#) , or a similar electronic detection method, for an evaluation of the originality of your ideas and proper use and attribution of sources. As part of this process, you may be required to submit electronic as well as hard copies of your written work, or be given other instructions to follow. By taking this course, you agree that all assignments may undergo this review process and that the assignment may be included as a source document in Turnitin.com's

restricted access database solely for the purpose of detecting plagiarism in such documents. Any assignment not submitted according to the procedures given by the instructor may be penalized or may not be accepted at all.

Library, Tutoring, and Other Resources

- The myMemphis Portal system, eCampus Student tab provides access to [University library](#) ↗.
- The tutoring link in the course navigation bar provides access to free online tutoring through UpSwing tutoring.

Students With Disabilities

Qualified students with disabilities will be provided reasonable and necessary academic accommodations if determined eligible by disability services staff at the University of Memphis. Prior to granting disability accommodations in this course, the instructor must receive written verification of a student's eligibility for specific accommodations from the disability services staff. It is the student's responsibility to initiate contact with [Disability Resources for Students](#) ↗ (DRS) and to follow the established procedures for having the accommodation notice sent to the instructor.

Sexual Misconduct and Domestic Violence Policy

This policy specifically addresses sexual misconduct which includes dating violence, domestic violence, sexual assault, and stalking. The policy establishes procedures for responding to Title IX-related allegations of sexual misconduct. Complaints can be reported to the Office for Institutional Equity (OIE). You may contact OIE by phone at 901.678.2713 or by email at oiem@memphis.edu. Complaints can be submitted online at [File a Complaint](#) ↗. OIE's office is located at 156 Administration Building.

Non-Discrimination and Anti-Harassment Policy

University policy prohibiting discrimination and harassment based on protected characteristics and classes. Complaints of discrimination and harassment can be reported to the Office for Institutional Equity (OIE). You may contact OIE by phone at 901.678.2713 or by email at oiem@memphis.edu. The full text of the policy can be found at [GE2030 - Non-Discrimination and Antiharassment](#) ↗.

Technology Requirements

The following is a list of the minimum requirements to use our learning management system. Some courses will have more advanced requirements.

- Access to a reliable, high-speed Internet connection (DSL or Cable).

- Test your device to ensure it is compatible with our LMS (Learning Management System) using the System Check Wizard.
- Open PDF files using the free downloadable PDF software.
- Access Flash-based content with [Adobe Flash Player](#) (free).
- Use Microsoft Office for document creation (available for students via <http://umapps.memphis.edu/>)

Syllabus Changes

The instructor reserves the right to make changes as necessary to this syllabus. If changes are necessitated during the term of the course, the instructor will immediately notify students of such changes both by individual email communication and posting both notification and nature of change(s) on the course bulletin board.

Technical Support

Call the Helpdesk: 901-678-8888

[Online Helpdesk](#)

Course Summary:

Date	Details	Due
Mon Feb 26, 2024	Exam 1	due by 11:59pm
Thu Apr 11, 2024	Honors contract assignment	due by 11:59pm
Sat Feb 8, 2025	Title slide	due by 1:18pm
Wed Feb 19, 2025	Intro through objective and methods	due by 10:17am
	Title plus problem statement	due by 10:18am
Tue Mar 4, 2025	Intro through conclusions	due by 12:02pm

Date	Details	Due
	<u>BME Faculty Candidate Seminar</u> <u>2/21/2024</u>	due by 12:02pm
Sun Mar 16, 2025	<u>BME Faculty Candidate Seminar</u> <u>2/28/2024</u>	due by 2:34pm
	<u>Delivered mid-semester</u> <u>presentation</u>	
	<u>Roll Call Attendance</u>	