Course Syllabus

MBMB 606 Ph.D. Research forum

Academic Year 2026

Course ID and Title: MBMB 606 Ph.D. Research Forum

Course Coordinator: Assoc. Prof. Sujira Mukda, Ph.D.

Tel. 02-441-9003 to 7 Ext. 1274, Mobile: 062-454-1556

Email: sujira.muk@mahidol.edu

Office and Lab: D401-04 (4th floor, wing-D)

Institute of Molecular Biosciences, Mahidol University

Instructor:

1. Assoc. Prof. Sujira Mukda, Ph.D.

2. Asst. Prof. Jiraporn Panmanee, Ph.D.

Credits: 2(2-0-4)

Curriculum: Doctor of Philosophy Program in Molecular and Integrative Biosciences   (Core course)

Semester: 2nd Semester

Pre-Requisites:

None.

Course Learning Outcomes (CLOs):

By the end of the course, students should be able to:

1. Demonstrate advanced critical thinking and problem-solving skills in their chosen research area.

2. Effectively communicate and defend their original research findings in both written and oral formats and contribute to the advancement of the field through the development of original research proposals and projects.

3. Apply information technology and interpersonal communication skills through group discussion.

Alignment of Teaching and Assessment Methods to Course Learning Outcomes:

Course Learning Outcomes	Teaching Method	Assessment Method
1. Demonstrate advanced critical thinking and problem-solving skills in their chosen research area.	Lectures, Group Discussions	1. Q&A during lecture 2. Discussion performance 3. Quiz / short exercise 4. Assignment
2. Effectively communicate and defend their original research findings in both written and oral formats and contribute to the advancement of the field through the development of original research proposals and projects.	Student Presentations, Group Discussions	1. Discussion performance 2. Presentation performance 3. Assignment
3. Apply information technology and interpersonal communication skills through group discussion	Student Presentations, Group Discussions	1. Discussion performance 2. Presentation performance 3. Assignment

Course Description:

The Ph.D. Research Forum is an advanced course designed to guide Ph.D. students through the process of presenting and advancing their original research findings. The course covers advanced research methodologies, high-level communication of research results, and the development of original contributions to the field.

Course Schedule:

(Classroom XXX)

	Activities	Description	Time	Instructors and Assistants
DAY1 Monday, XXX XX, 20XX			
1	**Lecture/Discussion:** Introduction to graduate research forum	To go over the research methodology, effective communication of research	09:00 - 12:00	Sujira/Jiraporn

	Activities	Description	Time	Instructors and Assistants
		results, and critical analysis of research approaches. 9:00–10:00: Introduction to research presentation 10:00–11:00: Approaches in critical analysis of research findings. 11:00–12:00: Introduction to effective communication for research		
2	**Workshop 1:** Student research showcase: the evolution of research through their own experience with a specific project	Students summarize their research and present to the group. The students will discuss what they discover and what the problem they encounter. They will have the opportunity to exchange their ideas to peers and instructors	13:00 - 16:00	
	DAY2 Monday XXX XX, 20XX			
3	**Workshop 2:** Poster development 1	Students design their thesis/research work or on-going projects into academic poster with a guidance from faculty members.	09:00 - 12:00	Sujira/Jiraporn
4	**Workshop 3:** Poster development 2	Students will have the first draft of the poster with a comment from faculty members and friends.	13:00 - 16:00	
	DAY3, XXX XX, 20XX			
5	**Lecture/Discussion:** Introduction to oral presentation	9:00–10:00: Fundamentals of Oral Presentations 10:00–12:00: Structuring a Research Presentation and delivery technique 13:00–14:00: Handling Q&A & Audience Engagement	09:00 - 16:00	Sujira/Jiraporn

	Activities	Description	Time	Instructors and Assistants
		14:00–16:00: Drafting student presentation		
DAY4, XXX XX, 20XX				
5	**Workshop 4:** Oral presentation	9:00–11:00: Analyzing Great Presentations 11:00–12:00: Slide Feedback & Redesign 13:00–16:00: Short Presentations & Feedback	09:00 - 16:00	Sujira/Jiraporn
DAY5 Graduate Research forum day, XXX XX, 20XX				
5	**Graduate Research forum:** Oral presentation/ Pitching/ Poster presentation:	The students will present their works on the specific topic they have developed. In addition to the students enrolled in the course, this session will bring together the larger body of our research community including first-year students, Postdocs, and staff. Pitching (9:00-9:30) Oral presentation (10:00–12:00) Poster presentation (13:00-16:00)	09:00 - 16:00	MBMB lecturers

Assessment Criteria:

	Assessment Criteria	Description (in Details)	Scoring Rubric
1	**Participation and Attendance:** 15%	Group discussion performance (10%) Showing up in the class (5%)	• Full attendance (**4**) • ~ 80% attendance (**3**) • ~ 60% attendance (**2**) • < 50% attendance (**1**)

Assessment Criteria		Description (in Details)	Scoring Rubric
2	Assignments: 35%	The presence of intro, methods, results, discussion, and conclusion with no plagiarism (10%)	- Complete (4) ~ 80% complete (3) ~ 60% complete (2) < 50% complete (1)
		Data presentation (5%)	- Complete (4) ~ 80% complete (3) ~ 60% complete (2) < 50% complete (1)
		Data analysis and interpretation (5%)	- Excellent (4) - Good (3) - Fair (2) - Need to be improved (1)
		English and writing skills (5%)	- Excellent (4) - Good (3) - Fair (2) - Need to be improved (1)
		Report format and typing errors (5%)	- Excellent (4) - Good (3) - Fair (2) - Need to be improved (1)
		On-time submission (5%)	- On-time (4) - Late (2-3) - Very late (1)
3	Quizzes and Exams: 5%	Depending on the correctness and completion (5%)	Raw scores will be adjusted to be in a range of 0-5%
4	Presentation: 40%	Participation and performance (15%)	- Active (4) - Fairly active (2-3)

Assessment Criteria	Description (in Details)	Scoring Rubric
		• Inactive (1)
	Professional and interpersonal skills (responsibility, teamwork, and leadership) (10%)	• Active (4) • Fairly active (2-3) • Inactive (1)
	Creative and high-order thinking skills (15%)	• Highly expressed (4) • Fairly expressed (2-3) • Not shown (1)

Student's achievement will be graded using symbols: A, B+, B, C+, C, D+, D and F, based on the criteria as follows:

Percentage	Grade	Description
85–100	A	Excellent
80–85	B+	Very Good
70–79	B	Good
65–69	C+	Fairly Good
60–64	C	Fair
55–59	D+	Poor
50–54	D	Very Poor
0–49	F	Fail

Date of Revision: Feb 2025