

Course Syllabus
MBMB 622 Apprentice Teaching (Ph.D.)
Academic Year 20XX

Course ID and Title: MBMB 622 Apprentice Teaching (Ph.D.)
ชมชม ๖๒๒ การฝึกสอนสำหรับนักศึกษาระดับปริญญาเอก

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Credits: 1 (0–2–1)

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

Semester: **X^{XX}** Semester

Pre-Requisites:

None.

Course Learning Outcomes (CLOs):

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

1. Visualize the entire teaching or training procedure (**Knowledge**).
2. Develop teaching/training skills through actual teaching practice in an MB workshop (**Skills**).
3. Maintain professional ethics and integrity when performing a teaching/training role (**Ethics**).
4. Demonstrate proper trainer's characteristics with a good service mind to their trainees (**Characters**).

Alignment of Teaching and Assessment Methods to Course Learning Outcomes:

Course Learning Outcomes	Teaching Method	Assessment Method
1. Visualize the entire teaching or training procedure (Knowledge – Aligned with PLO1).	1. Overview / tutorials 2. Experience sharing 3. Discussion	1. Discussion performance 2. Assignment
2. Develop teaching/training skills through actual teaching	1. Overview / tutorials 2. Experience sharing	1. Teaching/training performance 2. Feedback from trainees

Course Learning Outcomes	Teaching Method	Assessment Method
practice in an MB workshop (Skills – Aligned with PLO2).	3. Teaching practice (in a real MB workshop)	
3. Maintain professional ethics and integrity when performing a teaching/training role (Ethics – Aligned with PLO3).	1. Overview / tutorials 2. Experience sharing 3. Teaching practice (in a real MB workshop)	1. Teaching/training ethics evaluation (observation during teaching practice) 2. Feedback from trainees 3. Self-reflection
4. Demonstrate proper trainer's characteristics with a good service mind to their trainees (Characters – Aligned with PLO4).	1. Overview / tutorials 2. Experience sharing 3. Teaching practice (in a real MB workshop)	1. Personality* 2. Responsibility* 3. Punctuality* 4. Feedback from trainees 5. Self-reflection (*observation during teaching practice)

Course Description:

Teaching and Training Procedure; Teaching Plan Preparation; Teaching Materials Preparation; Teaching Practice; Workshop Organization; Making Video Clip for Teaching Online

(in Thai) กระบวนการสอนและการฝึกอบรม การเตรียมแผนการสอน การเตรียมสื่อการสอน การฝึกสอน การจัดการอบรมเชิงปฏิบัติการ การสร้างคลิปวิดีโอสำหรับการสอนออนไลน์

Course objectives and learning format:

- To provide students the opportunity to be a teaching assistant (TA) in an MB workshop (Typically, MB run more than 15 workshops all year round).
- To develop students' teaching/training skills required for their future careers.
- To help students picturize how to set up and organize a workshop from scratch that would help students who might need to do a similar thing in their future careers.
- After enrolling this course, the schedule and key information of all MB workshops will be provided to students in order to let them choose a workshop they would like to be a TA for. Then, the workshop head (one of our MB teaching staff) will contact students to give them a guide/mentorship/demonstration of how to set up, plan, organize, and run a workshop. TA students will be assigned to help prepare teaching materials and teach a group of workshop participants. After the workshop, students will have a session for their reflections and share their teaching experience with other TA students (in the same or from different workshops).

Course Schedule:

Date/Time/Place: Any (flexible), depending on appointment made between the instructor and student(s) in a selected MB workshop.

	Topic	Class Activity/Teaching Methods/Media	Time	Instructors and Assistants
1	Orientation and Tutorials	<ul style="list-style-type: none"> Introduce the course and all MB workshops so that students can explore and select one of those that they would like to participate as a teaching assistant (TA) 	3 hours	Course coordinator
2	Workshop (Teaching/Training) Planning	<ul style="list-style-type: none"> Demonstrate/discuss how to make a plan/outline for a workshop 	Before running a workshop	Selected MB teaching staff
3	Workshop (Teaching/Training) Content Preparation	<ul style="list-style-type: none"> Demonstrate/discuss how to prepare content for a workshop 	Before running a workshop	Selected MB teaching staff
4	Workshop (Teaching/Training) Material Preparation	<ul style="list-style-type: none"> Demonstrate/discuss how to prepare materials (chemicals/reagents/equipment) for a workshop 	Before running a workshop	Selected MB teaching staff
5	Workshop Briefing and Run-through	<ul style="list-style-type: none"> Demonstrate/discuss/mock up a workshop for students to get a feel for teaching/training workshop participants. 	Before running a workshop	Selected MB teaching staff
6	Running a real workshop	<ul style="list-style-type: none"> Allow students to teach/train participants (in their assigned group) in a real workshop. 	3-5 days	Selected MB teaching staff
7	Making a short video clip (teaching a certain technique in Molecular Biology)	<ul style="list-style-type: none"> Allow students to outline and design their own teaching materials for teaching online. 	Flexible date/time	Course coordinator
8	Self-Reflection and Course Evaluation	<ul style="list-style-type: none"> Play the pre-recorded video clips for online teaching (by Ph.D. students) and let the whole class give some feedback. Wrap-up Self-reflection and sharing with the whole class Course evaluation and suggestions 	3 hours	Course coordinator

Assessment Criteria:

Assessment Criteria		Description (in Details)	Scoring Rubric
1	Teaching Performance (40%)	<ul style="list-style-type: none"> Explanation (10%) Demonstration (10%) Instructions (10%) Management (10%) 	<ul style="list-style-type: none"> Outstanding (4) Good (3) Fair (2) Need to be improved (1)
2	Personality (20%)	<ul style="list-style-type: none"> Enthusiasm in teaching/training (10%) Service mind (10%) 	<ul style="list-style-type: none"> Active (4) Fairly active (2-3) Inactive (1)
3	Responsibility (10%)		<ul style="list-style-type: none"> Active (4) Fairly active (2-3) Inactive (1)
3	Punctuality (10%)		<ul style="list-style-type: none"> Early (4) On-time (3) Late (1-2) Absent (0)
4	Reflection (20%)	Participation and responsive performance (5%)	<ul style="list-style-type: none"> Active (4) Fairly active (2-3) Inactive (1)
		Professional and interpersonal skills (responsibility, teamwork, and leadership) (5%)	<ul style="list-style-type: none"> Active (4) Fairly active (2-3) Inactive (1)
		Creative and high-order thinking skills (10%)	<ul style="list-style-type: none"> 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 or F, based on the criteria as follows:

Percentage	Grade	Description
80–100	A	Excellent
75–79	B+	Very Good
70–74	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: XXX 20XX