

Course Syllabus

MBNS 794 Doctoral Seminars in Integrated Neuroscience

Academic Year 2/2025

Course ID and Name: MBNS 794 Doctoral Seminars in Integrated Neuroscience

Course Coordinator: Assoc. Prof. Nuanchan Chutabhakdikul

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Instructors:

1. Prof. Dr. Banthit Chetsawang
2. Assoc. Prof. Dr. Nuanchan Chutabhakdikul
3. Assoc. Prof. Dr. Vorasith Siripornpanich
4. Assoc. Prof. Dr. Sujira Mukda
5. Asst. Prof. Dr. Sukonthar Ngampramuan
6. Lecturer Dr. Jiraporn Panmanee
7. Lecturer Dr. Siraprapa Boophahom
8. Lecturer Dr. Ekkaphot Khongkla
9. Lect. Dr. Sumeth Klomchitcharoen

Supporting Staff:

1. Mrs. Somsong Phengsukdaeng
2. Mr. Prapan Premsawat

Credits: 1 (1-0-2)

Curriculum: Doctor of Philosophy Program in Neuroscience (required course)

Semester offering: Second semester

Pre-requisites: None

Course description: Integrate knowledge from a variety of neuroscience disciplines to develop a future research question; Practice scientific presentation skills; Ethics in research citation

Course learning outcomes (CLOs):

Upon completion of this course, students are able to:

1. Searching pieces of literature to explore up-to-date neuroscience research. Review and summarize research findings from several original articles (PLO2)

2. Interpret, analyze, criticize, and integrate knowledge from a variety of neuroscience disciplines to fill the knowledge gaps and to develop future research questions (PLO3)
3. Communicate scientific ideas, procedures, results, and conclusions using appropriate language and formats (PLO5)
4. Demonstrate ethical awareness in academic presentation including; accurate acknowledgment of authors, accurate citation of sources, and avoiding plagiarism (PLO1)
5. Be an attentive audience, respond constructively by asking appropriate questions, discussing fruitfully, supporting and connecting with others (PLO4)

Alignment of teaching and assessment methods to course learning outcome:

Course learning outcome	Teaching method	Assessment method
CLO1: Searching pieces of literature to explore up-to-date neuroscience research. Review and summarize research findings from several original articles (PLO2)	(1) Assignment (2) Discussion with mentor	(1) Formative assessment by mentor using rubric scoring
CLO2: Interpret, analyze, criticize, and integrate knowledge from a variety of neuroscience disciplines to fill the knowledge gaps and to develop future research questions (PLO3)	(1) Assignment (2) Class discussion and feedback by mentor (3) Practicing scientific presentation	(1) Evaluation of presentation performance using Rubric Scoring
CLO3: Communicate scientific ideas, procedures, results, and conclusions using appropriate language and formats (PLO5)	(1) Mentoring (2) Practicing scientific presentation	(1) Evaluation of presentation performance using Rubric Scoring
CLO4: Demonstrate ethical awareness in academic presentation e.g., citation correctly, avoiding plagiarism (PLO1)	(1) Mentoring (2) Practicing scientific presentation	(1) Evaluation of abstract and presentation slides using Rubric Scoring
CLO5: Be an attentive audience, respond constructively by asking appropriate questions, discussing fruitfully, supporting and connecting with others (PLO4)	(1) Facilitate student's active participation by assigning various roles in seminar class	(1) Scoring for class participation

Course Schedule
MBNS 794 Doctoral Seminars in Integrated Neuroscience
Academic Year 2/2025

Date: Thursday, 15 January 2026 – 20 March 2026

Time: 9.00-12.00

Venue: MaSHARES Co-working Space and room A107, Institute of Molecular Biosciences

Date/Time	Topic/Details	Speaker
15 Jan, 2026 10.00am-11.00am	Course Orientation (Zoom)	Nuanchan
19 Feb 2026 10:00am-12:00pm	To be announced	Guest seminar: Dr. Lalitta Suriya-Arunroj
26 Feb, 2026 09:00am-10.30am	To be announced	M.Sc. Seminar #1
10:30am-12.00pm	To be announced	M.Sc. Seminar #2
5 Mar, 2026 09.00am-10.30am	To be announced	Ph.D. Seminar #1
10.30am-12.00pm	To be announced	Ph.D. Seminar #2
12 Mar, 2026 10.00am-12.00pm	To be announced	M.Sc. Seminar #3

Important date

* Students must submit the seminar topic, abstract, and reference papers (approved by mentor and verified to pass plagiarism checks) by email to nuanchan.chu@mahidol.edu

Due date: 15 February, 2026, Time: 6.00 pm

Email topic: Submit Seminar “First name- Surname”

Zoom link:

Join Zoom Meeting

<https://zoom.us/j/93572061812?pwd=ZFSeellB0QZUwP5QBvW7OTwzTYLDSR.1>

Meeting ID: 935 7206 1812

Passcode: 667065

Assessment Criteria:

Criteria	Assessment Method	Scoring Rubric
Formative assessment 20%		
Seminar Preparation (20%)	Assessment student's processes to preparing the seminar presentation	1) Responsibility and Punctuality 2) Problem solving and critical thinking skills 3) Ethical conduct
Summative assessments 80%		
Presentation skills (60%)	Assess scientific presentation skills using the rubric scores	(1) Comprehension (2) Ability to delivered presentation in a clear and engaging manner (3) Ability to create of future research questions (3) Ability to answer questions
Peer evaluation (10%)	Peer evaluation of the presentation skills using the rubric scores	(1) Comprehension (2) Ability to delivered presentation in a clear and engaging manner (3) Ability to create of future research questions (3) Ability to answer questions
Class attendance and participation (10%)	Teacher records the number of student's signed in to participate the seminar class. Teachers observe and record student's participation in class	(1) Calculate the percent of student attending the seminar classes, total hour is 100%. (2) Student demonstrates as an active audience during seminar such as discussion, asking questions, and comments on other's presentation.

Student's achievement will be graded based on the following criteria:

Percentage	Grades	Descriptions
85-100	A	Excellent
80-84	B+	Very good
70-79	B	Good
60-69	C+	Fairly good
50-59	C	Fair

SEMINARS IN NEUROSCIENCE
EVALUATION FORM [Ph.D.]

Course: MBNS794 (Doctoral Seminars in Integrated Neuroscience) Semester 2025-1 Credit: (1-0-2)

Speaker: Date:

Seminar title:

PLEASE USE THE RATING SCALE BELOW TO EVALUATE THE STUDENT'S PRESENTATION.

Evaluation Items	Unsatisfied 1	Poor 2	Fair 3	Good 4	Very Good 5
Seminar contents 40%					
Introduction serves to logically present the background information and coverage main reference articles	1	2	3	4	5
Understanding of materials and methods	1	2	3	4	5
Adequate explanation of tables and graphs	1	2	3	4	5
Clearly describe and adequately interpret the data	1	2	3	4	5
Discuss the results meaningfully in an integratory manner	1	2	3	4	5
Adequately discuss the limitations of the studies	1	2	3	4	5
Profound understanding of the topic presented	1	2	3	4	5
Presentation performance 20%					
Quality of power point presentation slides (concise and well-organized content, format consistency)	1	2	3	4	5
Delivered presentation in a clear and engaging manner	1	2	3	4	5
English proficiency and proper use of scientific terminologies	1	2	3	4	5
Ability to speak without reliance on verbatim reading notes.	1	2	3	4	5
Eye-contact with audiences, avoid distracting mannerisms	1	2	3	4	5
Ability to present the topic in appropriate time (45-50 min)	1	2	3	4	5
Answering the questions 20%					
Answer with clear and concise, response directly to the point.	1	2	3	4	5
Answer with critical thinking and logical reasoning	1	2	3	4	5
Respond confidently to the questions	1	2	3	4	5
Ability to handle difficult questions	1	2	3	4	5
Ability to develop future research questions 20%					
Create future research questions with a clear rationale	1	2	3	4	5
Integrate knowledge to resolve the missing issues in neuroscience	1	2	3	4	5
Research questions show the student's mastery of the in-depth knowledge and providing approaches to acquire new knowledge	1	2	3	4	5
Total (100%)					

Weight 60%

Comments, Constructive Criticism, Suggestions and Explanation of Ratings:

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Evaluate by.....