



## **Graduate Programs in Biochemistry (International Program) Faculty of Science, Mahidol University**

Study Plan

Scholarship  
Opportunities

Research Focus

Extracurricular  
Activities



# M.Sc. in Biochemistry (International Program)

## Study Plan

- Plan A1: Research only
  - Thesis 36 credits
- Plan A2: Coursework and research
  - Required courses 10 credits
  - Elective courses 8 credits
  - Thesis 18 credits



## Plan A1: Research only

Qualification of prospective students:

- Hold a Bachelor's degree in related fields
- GPAX  $\geq 3.00$
- Pass minimum English proficiency requirement
- Have a minimum of two years full-time research work experience **OR** of one publication in an international peer-reviewed journal
- Pass the SCBM372, SCBM374, SCBC322 and SCBC421 courses with an average grade of B (for SIM students)



## Plan A1: Research only

- Thesis 36 credits

Year	Semester 1	Semester 2
1	Thesis	Thesis (continued) Proposal examination
2	Thesis (continued)	Thesis (continued) Thesis defense

\* Student may register for other courses as audit with the recommendation and approval of the Program Committee and/or the advisor.



## Plan A2: Coursework and research

Qualification of prospective students:

- Hold a Bachelor's degree in related fields
- GPAX  $\geq 2.50$
- Pass minimum English proficiency requirement



### Plan A2: Coursework and research

- Required courses      10 credits
- Elective courses      8 credits
- Thesis                      18 credits

Year	Semester 1	Semester 2
1	Required courses (5 credits) Elective courses (3-5 credits)	Required courses (3 credits) Elective courses (3-5 credits)
2	Seminar course (1 credit) Thesis Proposal examination	Seminar course (1 credit) Thesis (continued) Thesis defense



# Ph.D. in Biochemistry (International Program)

## Study Plan

- Plan 1: Research only
  - Plan 1.1: For students with a Master's degree
- Plan 2: Coursework and research
  - Plan 2.1: For students with a Master's degree
  - Plan 2.2: For students with a Bachelor's degree



## **Plan 1.1: Research only (for students with a Master's degree)**

Qualification of prospective students:

- Hold a Master's degree in related fields
- GPAX  $\geq 3.50$
- Have at least one publication in an international peer-reviewed journal listed in Scopus database
- Pass minimum English proficiency requirement





## Plan 1.1: Research only (for students with a Master's degree)

- Thesis 48 credits

Year	Semester 1	Semester 2
1	Thesis Qualifying examination	Thesis (continued) Proposal examination
2	Thesis (continued)	Thesis (continued)
3	Thesis (continued)	Thesis (continued) Thesis defense

\* Student may register for other courses as audit with the recommendation and approval of the Program Committee and/or the advisor.



## **Plan 2.1: Coursework and research (for students with a Master's degree)**

Qualification of prospective students:

- Hold a Master's degree in related fields
- GPAX  $\geq$  3.50
- Pass minimum English proficiency requirement



**Plan 2.1: Coursework and research (for students with a Master's degree)**

- Required courses                    9 credits
- Elective courses                    3 credits
- Thesis                                    36 credits

Year	Semester 1	Semester 2
1	Required courses (3 credits) Elective courses (0-3 credits)	Required courses (3 credits) Elective courses (0-3 credits)
2	Seminar course (1 credit) Qualifying examination	Seminar course (1 credit) Thesis Proposal examination
3	Thesis (continued)	Seminar course (1 credit) Thesis (continued)
4	Thesis (continued) Thesis defense	



## **Plan 2.2: Coursework and research (for students with a Bachelor's degree)**

Qualification of prospective students:

- Hold a Bachelor's degree in related fields
- GPAX  $\geq$  3.50
- Pass minimum English proficiency requirement



## **Plan 2.2: Coursework and research (for students with a Bachelor's degree)**

- Required courses    13 credits
- Elective courses    11 credits
- Thesis                48 credits



## Plan 2.2: Coursework and research (for students with a Bachelor's degree)

Year	Semester 1	Semester 2
1	Required courses (5 credits) Elective courses (5-7 credits)	Required courses (5 credits) Elective courses (4-6 credits)
2	Seminar course (1 credit) Qualifying examination	Seminar course (1 credit) Thesis Proposal examination
3	Thesis (continued)	Seminar course (1 credit) Thesis (continued)
4	Thesis (continued)	Thesis (continued)
5	Thesis (continued)	Thesis (continued) Thesis defense



## English Proficiency Requirement for Master's Degree

TEST	ENTRANCE	GRADUATION
IELTS	-	5.0 (Writing = 5.0, Speaking = 5.0)
TOEFL-iBT	-	64 (Writing = 17, Speaking = 15)
MU GRAD Plus (MU GRAD Test + Speaking)	-	70 (Writing = 10, Speaking = 10)
MU ELT	-	84 (Writing = 10, Speaking = 10)



## English Proficiency Requirement for Doctoral Degree

TEST	ENTRANCE	GRADUATION
IELTS	3.0	6.0 (Writing = 6.0, Speaking = 6.0)
TOEFL-iBT	32	79 (Writing = 23, Speaking = 19)
MU GRAD Plus (MU GRAD Test + Speaking)	40	90 (Writing = 12, Speaking = 12)





## Scholarship Opportunities

- From Faculty of Science:

1. Scholarship for Young Scientists (ทุนเสริมสร้างนักวิทยาศาสตร์รุ่นใหม่)
2. Teaching Assistant Scholarship (ทุนผู้ช่วยสอน)

- From Department of Biochemistry:

1. Academic Excellence Award (รางวัลสำหรับนักศึกษาที่มีผลการเรียนดีเยี่ยม)
2. Academic Merit Scholarship (ทุนอุดหนุนการศึกษาสำหรับนักศึกษาที่มีผลการเรียนดี)
3. Grants for Attending Academic Conferences, Training Programs or Seminars (ทุนสนับสนุนนักศึกษาเข้าร่วมประชุม ฝึกอบรม และสัมมนา)



## Scholarship Opportunities

- From Faculty of Graduate Studies:
  1. ทุนเฉลิมพระเกียรติ 60 ปี ครองราชสมบัติ (for Thai students)
  2. 2024 Mahidol Postgraduate Scholarships for International Students
  3. ทุนสนับสนุนนักศึกษาระดับบัณฑิตศึกษาในการเสนอผลงานทางวิชาการภายในประเทศ
  4. ทุนอุดหนุนในการพัฒนานักศึกษาระดับปริญญาโท-เอกไปเสนอผลงานทางวิชาการ ณ ต่างประเทศ
  5. โครงการทุนผู้ช่วยวิจัยบัณฑิตศึกษา (RA: Research Assistantships) (for PhD students)
  6. การให้ทุนสนับสนุนการทำวิทยานิพนธ์บางส่วนสำหรับนักศึกษาระดับบัณฑิตศึกษา



## Research Focus

- Protein and Enzyme Structure and Function
- Gene Regulation and Metabolism
- Molecular Cancer
- Regenerative Medicine
- Biotechnology and Nanotechnology





Mahidol University  
Faculty of Science

Department of Biochemistry  
*Wisdom of the Land*





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	<b>Application Period</b>	<b>Interview Date</b>
<b>Round 1</b>	Dec 1, 2023 – Jan 31, 2024	Feb 15, 2024
<b>Round 2</b>	Feb 1, 2024 – Mar 31, 2024	Apr 23, 2024
<b>Round 3</b>	Apr 1, 2024 – May 31, 2024	Jun 18, 2024



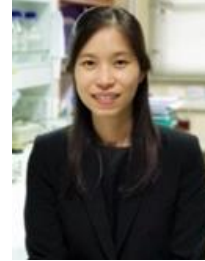
**Online Admission System**



*For more information, please feel free to contact the program directors and/or secretaries.*



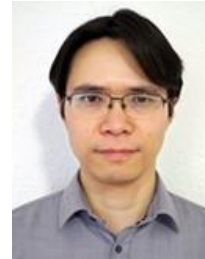
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