**Master of Science Program in Biochemistry**

**Name of Degree:** Master of Science (Biochemistry)

**Abbreviation:** M.Sc. (Biochemistry)

**Admission Requirements**

Plan A Type A 1:

Hold a bachelor's degree in biochemistry or related fields with a GPA of at least 3.25 or hold a bachelor's degree in science or related fields with a GPA of at least 3.50

Plan A Type A 2:

Hold a bachelor's degree in biochemistry or related fields with a GPA of at least 2.50 or has working experience in biochemistry-related job more than 1 year

**Curriculum**

**Total Credits**

Plan A Type A 1 36 Credits

Plan A Type A 2 36 Credits

**Curriculum Structure** **Type A 1** **Type A 2**

Required Courses 4 (Non-credit) 11 Credits

Elective Courses (\*\*) - 9 Credits

Thesis 36 16 Credits

Total 36 36 Credits

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| --- | --- | --- | --- |
| **First Year, 1st Semester** | | **Number of Credit** | |
| **Course Number** | **Course Title** | **Plan A Type A 1** | **Plan A Type A 2** |
| 318 701 | Biochemistry for Graduate Study I | - | 3(3-0-6) |
| 318 881 | Seminar in Biochemistry I | 1(1-0-2) (Non Credit) | - |
| 318 898 | Thesis | 9 | - |
| xxx xxx\*\* | Electives | - | 7 |
| **Total credits** | | **9** | **10** |
| **Cumulative credits** | | **9** | **10** |

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| --- | --- | --- | --- |
| **First Year, 2nd Semester** | | **Number of Credit** | |
| **Course Number** | **Course Title** | **Plan A Type A 1** | **Plan A Type A 2** |
| 318 702 | Biochemistry for Graduate Study II | - | 3(3-0-6) |
| 318 715 | Advanced Biochemical Techniques | - | 1(1-0-2) |
| 318 716 | Laboratory in Advanced Biochemical Techniques | - | 1(0-3-2) |
| 318 881 | Seminar in Biochemistry I | - | 1(1-0-2) |
| 318 882 | Seminar in Biochemistry II | 1(1-0-2) (Non Credit) | - |
| 318 898 | Thesis | 9 | - |
| xxx xxx\*\* | Electives | - | 2 |
| **Total credits** | | **9** | **8** |
| **Cumulative credits** | | **18** | **18** |

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| **Second Year, 1st Semester** | | **Number of Credit** | |
| **Course Number** | **Course Title** | **Plan A Type A 1** | **Plan A Type A 2** |
| 318 882 | Seminar in Biochemistry II | - | 1(1-0-2) |
| 318 883 | Seminar in Biochemistry III | 1(1-0-2) (Non Credit) | - |
| 318 898 | Thesis | 9 | - |
| 318 899 | Thesis | - | 8 |
| **Total** | | **9** | **9** |
| **cumulative credits** | | **27** | **27** |

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| --- | --- | --- | --- |
| **Second Year, 2st Semester** | | **Number of Credit** | |
| **Course Number** | **Course Title** | **Plan A Type A 1** | **Plan A Type A 2** |
| 318 883 | Seminar in Biochemistry III | - | 1(1-0-2) |
| 318 884 | Seminar in Biochemistry IV | 1(1-0-2) (Non Credit) | - |
| 318 898 | Thesis | 9 | - |
| 318 899 | Thesis | - | 8 |
| **Total** | | **9** | **9** |
| **cumulative credits** | | **36** | **36** |

**\*\* Electives**

318 713 Biological Techniques for Graduate Study 1(1-0-2)

318 714 Laboratory in Biological Techniques for Graduate Study 2(0-6-3)

318 722 Integrated Biochemistry 3(3-0-6)

318 724 Advanced Genetic Engineering in Prokaryotic Cells 2(2-0-4)

318 731 PCR Technology 3(3-0-6)

318 733 Protein Structure and Function 2(2-0-4)

318 734 Application of Immunological Techniques in Research Work 1(1-0-2)

318 735 Biochemistry and Biology of Cancer 3(3-0-6)

318 737 Analysis and Presentation of Biological Science articles 2(2-0-4)

318 891 Research Skill in Biochemistry 2(0-6-3)

**Lecturers**

1. Assoc. Prof. Thanaset Senawong, Ph.D. (Molecular and Cellular Biology)
2. Assoc. Prof. Sompong Klaynongsruang, Ph.D. (Biochemistry)
3. Assoc. Prof. Yanee Trongpanich, Ph.D. (Biochemistry)
4. Asst. Prof. Nipa Milintawisamai, Ph.D. (Soil Sciences)
5. Asst. Prof. Suporn Nuchdumrong, Ph.D. (Biochemistry)
6. Asst. Prof. Prasarn Sawassitang, Ph.D. (Nutrition)
7. Asst. Prof. Komsorn Lomthaisong, Ph.D. (Biochemistry and Physiology)
8. Asst. Prof. Paweena Pongdontri, Ph.D. (Biochemistry)
9. Asst. Prof. Rina Patramanon, Ph.D. (Biological Chemistry)
10. Dr. Somporn Katekaew, Ph.D. (Biochemistry)
11. Dr. Chamaiporn Champasri, Ph.D. (Biochemistry)
12. Dr. Gulsiri Senawong, Ph.D. (Molecular Biology and Genetic Engineering)