**Master of Science Program in Microbiology (2016)**

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

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

**Admission Requirements**

Plan A Type A 1:

Hold a bachelor's degree in microbiology or related fields obtained microbiology subjects at least 12 credits with a GPA of at least 3.25 and had a paper published in national or international journal

Plan A Type A 2:

Hold a bachelor's degree in microbiology or related fields with a GPA of at least 2.50

**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 (\*) 2 (Non credit) 12 Credits

Elective Courses (\*\*) - 9 Credits

Thesis 36 15 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** |
| 317 717\* | Fundamental Microbiology |  | 2 |
| 317 718\* | Applied Microbiology | - | 2 |
| 317 772\* | Research Techniques in Microbiology | - | 2 |
| 317 898 | Thesis | 9 | - |
| xxx xxx\*\* | Elective | - | 3 |
| **Total credits** | | **9** | **9** |
| **cumulative credits** | | **9** | **9** |

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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** |
| 317 714\*\* | Advanced Mycology | - | 2 |
| **or** 317 715\*\* | Advanced Bacteriology | - | 2 |
| **or** 317 716\*\* | Advanced Virology and Immunology | - | 2 |
| 317 721\* | Molecular Microbiology | - | 2 |
| 317 775\* | Instrument Usages for Advanced Microbiology | - | 2 |
| 317 898 | Thesis | 9 | - |
| 317 899 | Thesis | - | - |
| xxx xxx\*\* | Elective | - | 3 |
| **Total credits** | | **9** | **9** |
| **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** |
| 317 891\* | Seminar in Microbiology I | 1 (Non Credit) | 1 |
| 317 898 | Thesis | 9 | - |
| 317 899 | Thesis | - | 7 |
| xxx xxx\*\* | Elective | - | 1 |
| **Total credits** | | **9** | **9** |
| **cumulative credits** | | **27** | **27** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Second Year, 2nd Semester** | | **Number of Credit** | |
| **Course Number** | **Course Title** | **Plan A Type A 1** | **Plan A Type A 2** |
| 317 892\* | Seminar in Microbiology II | 1 (Non Credit) | 1 |
| 317 898 | Thesis | 9 | - |
| 317 899 | Thesis | - | 8 |
| xxx xxx\*\* | Elective | - | - |
| **Total credits** | | **9** | **9** |
| **cumulative credits** | | **36** | **36** |

**Program Lecturers**

1. Associate Professor Dr. Sopon Boonlue

2. Associate Professor Dr. Saowanit Tongpim

3. Assistant Professor Dr. Theerasak Somdee

4. Assistant Professor Dr. Ratanaporn Leesing

5. Assistant Professor Dr. Surasak Siripornadulsil

6. Assistant Professor Dr. Suwanna Niamsanit

7. Assistant Professor Dr. Atcha On-in