# 微生物及免疫學研究所碩士班

### 110 學年度

<table>
<thead>
<tr>
<th>最低修業年限</th>
<th>一年</th>
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<tbody>
<tr>
<td>應修學分數</td>
<td>至少應修滿 24 學分，其中包含本所訂定之必修科目</td>
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</tbody>
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### 本國生

#### 一般生

**必修課程**

1. 下列 a、b、c、d 必修課程四選三：
   a. 高等微生物及免疫學通論-免疫學(2 學分)或高等微生物及免疫學通論-免疫學(全英語)(2 學分)(中、英文版二擇一)
   b. 高等微生物及免疫學通論-病毒學(2 學分)或高等微生物及免疫學通論-病毒學(全英語)(2 學分)(中、英文版二擇一)
   c. 高等微生物及免疫學通論-細菌學(2 學分)或高等微生物及免疫學通論-細菌學(全英語)(2 學分)(中、英文版二擇一)

   註：上述abc的中、英文版請擇一選修，若中、英二版都選修，其中一門不能計入畢業學分內。

d. 現代生物學研究方法(2 學分)

#### 2. 學術研究倫理(0 學分必選課程)

1. 高選修「微生物與免疫學專題討論」(2 學分)，共需修 4 次，於修業期間內完成，且兩學年內至少必選一次「微生物與免疫學專題討論」(全英語)(2 學分)課程作為畢業門檻。

2. 自一年級第二學期末起每學期必選修「微生物與免疫學研究」(2 學分)。

3. 碩一生必選「生命科學院-生物醫學講座」(1 學分)，至少兩學期。

### 醫師科學家

**必修課程**

1. 下列 a、b、c 必修課程三選一：
   a. 高等微生物及免疫學通論-免疫學(2 學分)或高等微生物及免疫學通論-免疫學(全英語)(2 學分)(中、英文版二擇一)
   b. 高等微生物及免疫學通論-病毒學(2 學分)或高等微生物及免疫學通論-病毒學(全英語)(2 學分)(中、英文版二擇一)
   c. 高等微生物及免疫學通論-細菌學(2 學分)或高等微生物及免疫學通論-細菌學(全英語)(2 學分)(中、英文版二擇一)

   註：上述abc的中、英文版請擇一選修，若中、英二版都選修，其中一門不能計入畢業學分內。

2. 醫師科學家碩士專題研究(三)(3 學分)
3. 醫師科學家碩士專題研究(四)(3 學分)
4. 學術研究倫理(0 學分必選課程)

1. 必選修「微生物與免疫學專題討論」(2 學分)，共需修 2 次，於修業期間內完成，且至少必選一次「微生物與免疫學專題討論」(全英語)(2 學分)課程作為畢業門檻。

### 外籍生

**必修課程**

1. 下列 a、b、c 必修課程三選二：
   a. 高等微生物及免疫學通論-免疫學(全英語)(2 學分)
   b. 高等微生物及免疫學通論-病毒學(全英語)(2 學分)
   c. 高等微生物及免疫學通論-細菌學(全英語)(2 學分)
   d. 現代生物學研究方法(中文版)(2 學分)、生醫科學實驗技術(英文版)(2 學分)，二選一

2. 學術研究倫理，0 學分必選課程：

   1. 必選修「微生物與免疫學專題討論」(全英語)(2 學分)，共需修 4 次，於修業期間內完成。
   2. 自一年級第二學期末起每學期必選修「微生物與免疫學研究」(2 學分)。

### 備註
# Institute of Microbiology & Immunology Master Program
## Academic Year 2021

<table>
<thead>
<tr>
<th>Mini. Term of Study</th>
<th>One year</th>
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<tbody>
<tr>
<td>Minimum Credits</td>
<td>To obtain the degree, students must complete at least twenty-four credits, including all required courses.</td>
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## Curriculum and Regulations

### Native students

### General students

#### Required courses:

1. Among the following courses: a, b, c and d. Please choose at least three.
   
   a. “Advanced Microbiology and Immunology-Immunology” (2 credits), or “Advanced Microbiology and Immunology-Immunology (in English)” (2 credits), choose one.
   
   b. “Advanced Microbiology and Immunology-Virology” (2 credits), or “Advanced Microbiology and Immunology-Virology (in English)” (2 credits), choose one.
   
   c. “Advanced Microbiology and Immunology-Bacteriology” (2 credits) or “Advanced Microbiology and Immunology-Bacteriology (in English)” (2 credits), choose one.
   
   Note: Among the above courses: a, b, and c, please choose between Chinese class or English class; if choosing both Chinese and English classes, the credit of one class cannot be added in the total required credits for graduation.
   
   d. “Research Methods for Modern Microbiology & Immunology” (2 credits)

2. “Research ethics” course (0 credit)

#### Required elective courses:

1. Master's degree students need to take the "Seminars in Microbiology and Immunology" (2 credits), 4 times in total, to be completed within the study period, and within two years, native students group A and B must enroll in one time of the course “Seminars in Microbiology and Immunology (in English)” (2 credits), as a requirement for graduation.

2. After choosing the experimental lab, except the first semester of the first year, Master students must enroll in the course “Microbiology and Immunology Research” every semester.

3. 1st year Master students must choose “School of Life Sciences - Biomedical Lecture” (1 credit), at least in 2 semesters.

### Medical students

#### Required courses:

1. Among the following courses: a, b and c, please choose one.
   
   a. “Advanced Microbiology and Immunology-Immunology” (2 credits), or “Advanced Microbiology and Immunology-Immunology (in English)” (2 credits), choose one.
   
   b. “Advanced Microbiology and Immunology-Virology” (2 credits), or “Advanced Microbiology and Immunology-Virology (in English)” (2 credits), choose one.
   
   c. “Advanced Microbiology and Immunology-Bacteriology” (2 credits) or “Advanced Microbiology and Immunology-Bacteriology (in English)” (2 credits), choose one.
   
   Note: Among the above courses: a, b, and c, please choose between Chinese class or English class; if choosing both Chinese and English classes, the credit of one class cannot be added in the total required credits for graduation.
② “Medical students Master Progress Report (3)” (3 credits) (First semester).
③ “Master Progress Report (4)” (3 credits) (Second semester).
④ “Research ethics” course (0 credit)

**Required elective courses:**
① Master's degree students need to take the "Seminars in Microbiology and Immunology" (2 credits), 4 times in total, to be completed within the study period, and within two years, native students group A and B must enroll in one time of the course “Seminars in Microbiology and Immunology (in English)” (2 credits), as a requirement for graduation.

**International students**

**Required courses:**
① Among the following courses: a, b, c, and d, please choose at least three.
   a. “Advanced Microbiology and Immunology-Immunology (in English)” (2 credits),
   b. “Advanced Microbiology and Immunology-Virology (in English)” (2 credits),
   c. “Advanced Microbiology and Immunology-Bacteriology (in English)” (2 credits)
   d. “Research Methods for Modern Microbiology & Immunology” (in Chinese) (2 credits) or “Experimental techniques for biomedical science (in English)” (2 credits), choose one.

② “Research ethics” course (0 credit)

**Required elective courses:**
① Master's degree students need to take the "Seminars in Microbiology and Immunology (in English)” (2 credits), 4 times in total, to be completed within the study period.

② After choosing the experimental lab, except the first semester of the first year, Master students must enroll in the course “Microbiology and Immunology Research” every semester.