

生命科學系(學位學程)學士班學生畢業條件明細表(115學年度起入學適用)

項 目	項 目																																																															
<p>一、修業年限： (一)最低修業年限：四年(獸醫系五年) (二)可延長修業二年(不包括休學二年)</p> <p>二、應修最低畢業總學分數：共 128 學分。</p> <p>三、校必修課程及學分數： (一)體育課程：必修 2 學分，不計入畢業學分。 超修之體育課程至多採計為外系 2 學分。 運動績優生另依體育室相關規定辦理。 (二)英文能力檢定：0 學分。 (三)通識課程：28 學分。</p> <p>1.核心素養課程：共10類，至少3學分。 其中「資訊素養：程式設計與AI應用」修課規定如下： 必修 1 學分(外籍生得免修)。</p> <p>2.語文素養課程：10 學分。 (1)本國語文：4學分 敘事表達：語文素養2學分。 敘事表達：語文應用2學分。 (2)外國語文：6學分 ■英語溝通與表達2學分。 ■學術英文聽讀2學分。 ■學術英文說寫2學分。</p> <p>3.領域素養課程：至少 10 學分 (1)應修習「人文、社會、自然」三領域各 1 門 課程，合計至少 6 學分。 (2)應修習「統合領域」課程至少 4 學分。 (3)國防教育類通識課程(非必修)，至多採計 1 門為通識畢業學分，超修該類課程不可以採計為外系學分。 (4)本系隸屬生命科學學群，至多採計 1 門該學群課程為通識畢業學分，超修該學群課程不可以採計為外系選修學分。</p> <p>4.超修之通識課程可以採計為外系選修至多 10 學分。</p> <p>四、院專業必修課程及學分數：無</p> <p>五、系專業必修課程及學分數：最低應修 46 學分</p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width:60%;">科目名稱</th> <th style="width:15%;">全或半</th> <th style="width:25%;">學分</th> </tr> </thead> <tbody> <tr><td>(1)普通生物學(共二年)</td><td>全</td><td>12</td></tr> <tr><td>(2)普通生物學實驗(共一年)</td><td>全</td><td>2</td></tr> <tr><td>(3)普通化學</td><td>半</td><td>3</td></tr> <tr><td>(4)普通化學實驗</td><td>半</td><td>1</td></tr> <tr><td>(5)有機化學</td><td>半</td><td>3</td></tr> <tr><td>(6)有機化學實驗</td><td>半</td><td>1</td></tr> <tr><td>(7)生物化學</td><td>全</td><td>6</td></tr> <tr><td>(8)生物統計學與實習</td><td>半</td><td>3</td></tr> <tr><td>(9)遺傳學</td><td>半</td><td>3</td></tr> <tr><td>(10)遺傳學實驗</td><td>半</td><td>1</td></tr> <tr><td>(11)專題討論</td><td>全</td><td>2</td></tr> </tbody> </table>	科目名稱	全或半	學分	(1)普通生物學(共二年)	全	12	(2)普通生物學實驗(共一年)	全	2	(3)普通化學	半	3	(4)普通化學實驗	半	1	(5)有機化學	半	3	(6)有機化學實驗	半	1	(7)生物化學	全	6	(8)生物統計學與實習	半	3	(9)遺傳學	半	3	(10)遺傳學實驗	半	1	(11)專題討論	全	2	<table border="1" style="width:100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width:70%;">科目名稱</th> <th style="width:15%;">全或半</th> <th style="width:15%;">學分</th> </tr> </thead> <tbody> <tr><td>(12)生態學</td><td>半</td><td>3</td></tr> <tr><td>(13)分子生物學</td><td>半</td><td>4</td></tr> <tr><td>(14)動物生理學</td><td>半</td><td>3</td></tr> <tr><td>(15)植物生理學</td><td>半</td><td>3</td></tr> <tr><td>(16)細胞生物學</td><td>半</td><td>3</td></tr> <tr><td>(17)演化學</td><td>半</td><td>3</td></tr> <tr><td>(18)微生物學</td><td>半</td><td>3</td></tr> <tr><td>(19)生物技術</td><td>半</td><td>3</td></tr> </tbody> </table> <p>六、系專業選修課程及學分數：最低應選修 24 學分。</p> <p>七、其他特別規定： (1)承認外系學分：最多 30 學分 (2)生態學、演化學二科中任選一科為必修。 (3)動物生理學、植物生理學、細胞生物學三科中任選一科為必修。 (4)分子生物學、微生物學、生物技術三科中任選一科為必修。 (5)至少修習 3 門本系之選修實驗/實習課/專題研究(2 學分)/畢業論文(3 學分)。</p> <p>八、輔系：學生修習輔系之學分，應在其主系規定最低畢業學分以外加修之科目及學分數(至少二十學分)，請見教務處課務組公告事項。</p> <p>九、雙主修： (一)學生修讀雙主修，其加修學系(所、學位學程)畢業條件以核准修讀學年度的畢業條件為基準。修讀雙主修學生，除應修滿所屬系(所、學位學程)規定畢業科目學分外，應至少修滿加修學系(所、學位學程)全部專業必修科目學分始可取得雙主修資格。 (二)學士班學生如加修專業必修科目學分數不足四十學分，或修讀科目名稱相同學分數不同者，應由加修學系(所、學位學程)指定科目補足學分。</p> <p>十、跨域專長： 本系有開設，申請對象學士班；跨域專長課程與學生本系(學位學程)、雙主修、輔系或其他跨域專長應修課程及學分重複者，由跨域專長的系(學位學程)或學院指定與專長相關選修課程補足。</p> <p>十一、入學資格：屬修業年限少於國內高級中等學校及專科學校之國外同等學校畢業生，如海外中五學制畢(結)業生，畢業學分數應增加至少 12 學分，其增加之學分數與修習科目請詳附表。</p>	科目名稱	全或半	學分	(12)生態學	半	3	(13)分子生物學	半	4	(14)動物生理學	半	3	(15)植物生理學	半	3	(16)細胞生物學	半	3	(17)演化學	半	3	(18)微生物學	半	3	(19)生物技術	半	3
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※必修科目及畢業學分數規定，由各系依課程規劃表填列。

※畢業條件異動請依畢業條件異動簡化程序建議表辦理。如無課程或學分異動，不須每學年提送。

※本表經 110 學年度第 3 次校課程委員會通過後生效。

系(學位學程)承辦人：

主任簽章：

年 月 日修訂

附表：

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二、入學資格屬修業年限少於國內高級中等學校及專科學校之國外同等學校畢業生，如海外中五學制畢(結)業生，畢業學分數應增加至少 12 學分，其增加之學分數與修習科目如下列：

不限本系、外系科目學分 12 學分

系(學位學程)承辦人：

主任簽章：

年 月 日修訂

Department of Life Sciences Graduation Requirements for Students Enrolled after **2026**

Items	Items																																																												
<p>I. Years of Enrollment : Minimum years of enrollment : 4 years (5 years for Veterinary Medicine) Can be extended for 2 more years (excluding 2 years of suspension)</p> <p>II. Minimum graduation credits required: <u>128</u> credits</p> <p>III. Courses required by the university curriculum:</p> <ol style="list-style-type: none"> 1. Physical Education: 2 credits, not included in the credits for graduation. Extra taken PE course credits will be counted as from other departments, and are limited to a maximum of 2 credits. Athletes with outstanding sports achievements will be handled according to the relevant regulations of the Office of Physical Education and Sports. 2. English Proficiency Requirement: 0 credit. 3. General Education : 28 credits <ol style="list-style-type: none"> i. Core Competencies: at least 3 credits. International students do not need to take the “Information Literacy” course. ii. Language Competencies: <ul style="list-style-type: none"> ➤ Native Language and Literature : 4 credits Narrative Expression: Language Literacy Narrative Expression: Language Application ➤ Foreign Language: 6 credits. <ul style="list-style-type: none"> ■ English Communication and Expression ■ Academic English : Listening and Reading ■ Academic English : Speaking and Writing iii. Domain Competencies: at least 10 credits <ul style="list-style-type: none"> ➤ Humanistic Domain, Social Science Domain, and Natural Domain: at least one course in each Domain, total at least <u>6</u> credits. ➤ Integrated Domain: at least 4 credits. ➤ For National Defense education courses, only credits of 1 course can be counted as general education credits. ➤ Our program belongs to the area of <u>life sciences</u>, therefore, only one course from this area will be recognized. IV. Extra credits can be counted in the graduation credits, and are limited to a maximum of 10 credits. <p>IV. Courses required by college curriculum: <u>0</u> credits</p> <p>V. Required professional courses by the department: <u>46</u> credits.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;">Core Course Title</th> <th style="width: 10%;">Semester /Year</th> <th style="width: 10%;">Credits</th> </tr> </thead> <tbody> <tr><td>1. General Biology (2 years)</td><td>Year</td><td>12</td></tr> <tr><td>2. General Biology Laboratory (1 year)</td><td>Year</td><td>2</td></tr> <tr><td>3. General Chemistry</td><td>Semester</td><td>3</td></tr> <tr><td>4. General Chemistry and Lab</td><td>Semester</td><td>1</td></tr> <tr><td>5. Organic Chemistry</td><td>Semester</td><td>3</td></tr> <tr><td>6. Organic Chemistry Lab.</td><td>Semester</td><td>1</td></tr> <tr><td>7. Biochemistry</td><td>Year</td><td>6</td></tr> <tr><td>8. Biometrics and practice</td><td>Semester</td><td>3</td></tr> <tr><td>9. Genetics</td><td>Semester</td><td>3</td></tr> <tr><td>10. Lab in Genetics</td><td>Semester</td><td>1</td></tr> <tr><td>11. Seminar</td><td>Year</td><td>2</td></tr> <tr><td>12. Ecology</td><td>Semester</td><td>3</td></tr> <tr><td>13. Molecular Biology</td><td>Semester</td><td>4</td></tr> <tr><td>14. Animal Physiology</td><td>Semester</td><td>3</td></tr> <tr><td>15. Plant Physiology</td><td>Semester</td><td>3</td></tr> <tr><td>16. Cell Biology</td><td>Semester</td><td>3</td></tr> <tr><td>17. Evolution</td><td>Semester</td><td>3</td></tr> <tr><td>18. Microbiology</td><td>Semester</td><td>3</td></tr> <tr><td>19. Biotechnology</td><td>Semester</td><td>3</td></tr> </tbody> </table> <p>VI. Minimum of professional elective credits: <u>24</u> credits</p> <p>VII. Other Regulations:</p> <ol style="list-style-type: none"> 1. Other department courses are limited to a maximum of 30 credits. 2. Ecology, Evolution: At least one course is required. 3. Animal Physiology, Plant Physiology, Cell Biology: At least one course is required. 4. Molecular Biology, Microbiology, Biotechnology: At least one course is required. 5. Elective laboratory courses, practice courses, Undergraduate Research (2 credits), Thesis (3 credits) offered by our department: At least three courses are required. 	Core Course Title	Semester /Year	Credits	1. General Biology (2 years)	Year	12	2. General Biology Laboratory (1 year)	Year	2	3. General Chemistry	Semester	3	4. General Chemistry and Lab	Semester	1	5. Organic Chemistry	Semester	3	6. Organic Chemistry Lab.	Semester	1	7. Biochemistry	Year	6	8. Biometrics and practice	Semester	3	9. Genetics	Semester	3	10. Lab in Genetics	Semester	1	11. Seminar	Year	2	12. Ecology	Semester	3	13. Molecular Biology	Semester	4	14. Animal Physiology	Semester	3	15. Plant Physiology	Semester	3	16. Cell Biology	Semester	3	17. Evolution	Semester	3	18. Microbiology	Semester	3	19. Biotechnology	Semester	3
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Department of Life Sciences Graduation Requirements for Students Enrolled after 2026

VIII. Minor Degree: If a student intends to study for a minor degree, he/she will need to take 20 (or more) credits in addition to the department's minimum credits required for graduation. For more details, please see the bulletin of Curriculum Division website.

IX. Double Major: The graduation requirements for students in pursuit of a double major (department or degree program) shall be based on the relevant regulations applicable at the time (year) when the application was approved. Double major students not only have to fulfill all graduation credit requirements of their original major (department or degree program), they must also complete all core courses for the second major (department or degree program) in order to be granted a double major degree.

Undergraduate students who did not complete or are short of 40 credits for the second major must make up for those credits by taking courses designated by the second-major department or degree program.

X. Cross-Disciplinary Expertise Development Program: For students whose compulsory courses and credits are the same as the ones offered by the departments (degree programs), double major, minor, or other cross-disciplinary expertise programs providing cross-disciplinary expertise courses, they shall take other elective courses that are related to their expertise and designated by the departments (degree programs) or colleges providing cross-disciplinary expertise module courses.

XI. Students who graduate from the study period of the senior high school less than 6 years will be required to take at least 12 extra credits in their graduation requirements.

2024/5/6

Coordinator 系(所、學位學程)承辦人：

Chairperson 系所主管簽章：

若中文版本與英文翻譯版本有任何差異，以中文版本為準。

In the event of any discrepancies between the Chinese version and its English translation, the Chinese version shall prevail.