

課程流水號 Serial Number	24011
課號 Course Number	LS3018
班次 Class	*
科目名稱(中文) Course Title(in Chinese)	動物生理學
科目名稱(外文) Course Title(In English or other languages)	Animal Physiology
授課老師(中文) Instructor(in Chinese)	黃佳瑜,高永旭,金秀蓮,羅月霞
授課老師(外文) Instructor(In English or other languages)	Chia-Yu Huang, Yung-Hsi Kao, Shioh-Lian Catherine Jin, Yueh-Hsia Luo
辦公時間(中文) Office Hour(in Chinese)	星期一下午2:00以後
辦公時間(外文) Office Hour(In English or other languages)	Monday, after 2:00 pm
課程目標(中文) Course Objective(in Chinese)	The main objective of this course is to introduce the functions and the underlying molecular and cellular mechanisms of different physiological systems in our body. The gross and/or detail structures of the tissues and organs involving in each system is also expounded.
課程目標(外文) Course Objective(In English or other languages)	The main objective of this course is to introduce the functions and the underlying molecular and cellular mechanisms of different physiological systems in our body. The gross and/or detail structures of the tissues and organs involving in each system is also expounded.
授課內容(中文) Course Description(in Chinese)	Feb 20/21 The study of body function (1; 高) Feb 27 Interactions between cells and the extracellular environment (6; 高) Feb 28 Holiday March 6/7 The nervous system: neurons and synapses (7; 黃) March 13/14 The central nervous system (8; 黃) March 20/21 The autonomic nervous system (9; 黃) March 27/28 Endocrine glands: secretion and action of hormones (11; 高) April 3/4 1st exam/Spring break

	<p>April 10/11 Endocrine glands: secretion and action of hormones (11/19; 高)</p> <p>April 17/18 The digestive system (18; 高)/mid-exam</p> <p>April 24/25 Immune system (15; 羅)</p> <p>May 1/2 Respiratory physiology (16; 羅)</p> <p>May 8/9 Physiology of the kidney (16/17; 羅)</p> <p>May 15/16 Physiology of the kidney (17; 羅)</p> <p>May 22/23 3rd exam/Blood, heart, and circulation (13; 金)</p> <p>May 29/30 Cardiac output, blood flow, and blood pressure (13; 金)</p> <p>June 5/6 Cardiac output, blood flow, and blood pressure (14; 金)</p> <p>June 12/13 Reproduction (20; 金)</p> <p>June 19/20 Final examination (20; 金)</p>
授課內容(外文) Course Description(In English or other languages)	<p>Feb 20/21 The study of body function (1; 高)</p> <p>Feb 27 Interactions between cells and the extracellular environment (6; 高)</p> <p>Feb 28 Holiday</p> <p>March 6/7 The nervous system: neurons and synapses (7; 黃)</p> <p>March 13/14 The central nervous system (8; 黃)</p> <p>March 20/21 The autonomic nervous system (9; 黃)</p> <p>March 27/28 Endocrine glands: secretion and action of hormones (11; 高)</p> <p>April 3/4 1st exam/Spring break</p> <p>April 10/11 Endocrine glands: secretion and action of hormones (11/19; 高)</p> <p>April 17/18 The digestive system (18; 高)/mid-exam</p> <p>April 24/25 Immune system (15; 羅)</p> <p>May 1/2 Respiratory physiology (16; 羅)</p> <p>May 8/9 Physiology of the kidney (16/17; 羅)</p> <p>May 15/16 Physiology of the kidney (17; 羅)</p> <p>May 22/23 3rd exam/Blood, heart, and circulation (13; 金)</p> <p>May 29/30 Cardiac output, blood flow, and blood pressure (13; 金)</p> <p>June 5/6 Cardiac output, blood flow, and blood pressure (14; 金)</p> <p>June 12/13 Reproduction (20; 金)</p> <p>June 19/20 Final examination (20; 金)</p>
教科書/參考書(中文) Textbook/References(in Chinese)	<p>Stuart Ira Fox. Human Physiology, 14th Edition, McGraw Hill Co.</p> <p>Textbook: Stuart Ira Fox, 2016. Human Physiology, 14th Edition, McGraw Hill Co.</p> <p>Reference book: Knut Sch midt-Nielsen, 1998. Animal Physiology: Adaptation and environment, Cambridge University Press.</p>
教科書/參考書(外文) Textbook/References(In English or other languages)	<p>Stuart Ira Fox. Human Physiology, 14th Edition, McGraw Hill Co.</p> <p>Textbook: Stuart Ira Fox, 2016. Human Physiology, 14th Edition, McGraw Hill Co.</p>













	Reference book: Knut Schmidt-Nielsen, 1998. Animal Physiology: Adaptation and environment, Cambridge University Press.
自編教材比例 Self-compiled Textbook/References Proportion	
授課方式 Requirements	講授Lecture
評量配分比重(中文) Grading(in Chinese)	1st exam + midterm exam + 3rd exam + final exam = 84%; Homework=8%; Participation/ Attendance/Discussion (8%); Office hours: After 2:00 pm on Monday <b>**Note**</b> : (1)上課時請勿使用筆電、手機等電子產品，違規一次者，上面課堂參與成績分數以扣1分計算之，依此類推。(2)請勿翹課，翹課1次者，上面課堂參與成績分數以扣2分計算之，依此類推。(提醒：請同學留意一下校方學則內第二篇與『學士班』相關之規定。)
評量配分比重(外文) Grading(In English or other languages)	1st exam + midterm exam + 3rd exam + final exam = 84%; Homework=8%; Participation/ Attendance/Discussion (8%); Office hours: After 2:00 pm on Monday <b>**Note**</b> : (1)上課時請勿使用筆電、手機等電子產品，違規一次者，上面課堂參與成績分數以扣1分計算之，依此類推。(2)請勿翹課，翹課1次者，上面課堂參與成績分數以扣2分計算之，依此類推。(提醒：請同學留意一下校方學則內第二篇與『學士班』相關之規定。)
課程所屬學制 Educational System	學士班(Undergraduate Programme)
課程領域 Course Domain	生理
跨系課程領域 Cross Department Course Domain	

系所核心能力 Core Competencies of Department	強度指數 Overall Rating						評量方式 Corresponding Assessments
	0 不具備 Zero	1 非常低 Very Low	2 低 Low	3 普通 Medium	4 高 High	5 非常高 Very High	

<div>強度指數 Overall Rating</div> <div>系所核心能力 Core Competencies of Department</div>	0 不具 備 Zero	1 非常 低 Very Low	2 低 Low	3 普通 Medium	4 高 High	5 非常 高 Very High	評量方式 Corresponding Assessments
基礎生物專業知識 Basic Biological Sciences	●	●	●	●	●	●	<input checked="" type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input checked="" type="checkbox"/> 作業練習(Assignments) <input type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)
發掘問題及實驗能力 Question approaching and experimental skills	●	●	●	●	●	●	<input checked="" type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input checked="" type="checkbox"/> 作業練習(Assignments) <input type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)

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邏輯分析 Logical thinking and analysis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input checked="" type="checkbox"/> 作業練習(Assignments) <input type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)
電腦應用 Computer application	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input checked="" type="checkbox"/> 作業練習(Assignments) <input type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)

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溝通技巧 Communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input type="checkbox"/> 作業練習(Assignments) <input type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)
獨立思考與自我學習 Independent thinking and self-learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input checked="" type="checkbox"/> 作業練習(Assignments) <input type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)

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	0 不具 備 Zero	1 非常 低 Very Low	2 低 Low	3 普通 Medium	4 高 High	5 非常 高 Very High	
團隊合作 Team work							<input type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input type="checkbox"/> 作業練習(Assignments) <input type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input checked="" type="checkbox"/> 無(No assessment)
博雅通識 General knowledge							<input checked="" type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input checked="" type="checkbox"/> 作業練習(Assignments) <input type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)