



文藻外語大學 111 學年度第 1 學期 教學綱要
Wenzao Ursuline University of Languages
Syllabus for the 1st Semester of the 2023 Academic Year
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壹、課程基本資料

課程名稱 Course Title	生物 BIOLOGY			
課程類別(學制) School System	日間部五專 5-Year Junior College of Day Division			
開課單位 Academic Unit	通識教育中心			
授課教師 Instructor	吳大平		職稱 Academic Rank	助理教授
師生互動 Data of Instructor	辦公室 Office	Z0625	辦公室電話 Office Phone Number	7126
	電子信箱 E-mail	100479@mail.wzu.edu.tw		
	約談時間 Office Hours	Wednesday 11:00-12:00 and by appointment		
學分 Credits	2學分	選課別 Category	[✓]必修 Required Course []選修 Elective Course	
開課類別 Course Length	[]學年課 Year-long course(2 semesters) [✓]學期課 semester course(1 semester)		開課年級Year Taught: 1年級 授課班級Class Taught: 日五專英文一年級	
課程內容概要 Course Content Syn opsis	<p>■課程內容概要：本課程內容包括：生命現象；細胞的構造與生理；生物的歧異；營養與消化；呼吸與排泄；循環與免疫；神經與運動；內分泌與生殖；基因與遺傳；人類的遺傳；生物技術及其應用；自然保育與永續經營等。以及生命世界中的交互作用、族群、群集和生態系、生物圈中生命形態及其生活環境、人類和生物圈、形形色色的生物等。方法除演講式教學外，亦活用各種教學活動，如小組討論、剪報討論、觀看並討論生物影片、適時介紹與職業教育相關之生物科技。</p> <p>The contents include life phenomena ; cell's structure and physiology; biological diversity ; nutrition and digestion; breath and excretion; circulation and immunity; nerve and movement; internal secretion and reproduction; gene and heredity; biological technology and application; nature reservation and sustainable development.</p> <p>■主要授課語言： 英語(English)</p>			
課程學習目標 Course Learning Goals	<p>1. 使學生經由探討生命現象的奧秘，瞭解生物學與人生的關係，培養現代國民應具備的基本生物學素養。 2. 使學生經由認識生物圈中生命的共同性與多樣性，培養學生鑑賞生命與自然和諧之美，以及尊重生命、愛護生態環境和維持永續發展的情操。 3. 使學生培養觀察、推理、理性思辨及創造等能力，以解決日常生活中所遭遇到的問題。</p> <p>1.To enable students to philosophize about the mysteries of life, and to understand the relationship between the biology and life. 2. To enable students to recognize the commonality and diversity of life in the biosphere, appreciate the beauty of life in harmony with nature, respect for life, and care about the environment. 3. So that students can develop the capabilities of observation, reasoning, and critical thinking to solve all problems they encountered.</p>			
系培育目標與核心能力以及學習目標Development Goals, Skill Indicator, & Learning Objectives	系培育目標 Development Goal	核心能力指標 編碼 Skill Indicator Code	核心能力 Skill Indicator	學習目標 Learning Objective
	3. 倫理實踐能力	3-1-1	生命關懷能力	
	3. 倫理實踐能力	3-1-3	環境保護能力	

	4. 美學素養能力	4-1-4	生命的感受能力	
	5. 分析綜合能力	5-1-1	邏輯思辨能力	
	7. 建立關係能力	7-1-1	團隊合作能力	
	其他(Others)			
學生先備知能 Prerequisite Knowledge Skills	Course will be taught in English.			
教學學理基礎 Theoretical Foundation of Instruction	This course will explore all aspects of the living world. By learning in English, the students will be better able to understand biological information from international sources.			
授課資訊 Instructional Information	■課程類型(Top Down)			
	一般課程Regular course			
	■教學平台			
	實體教學Face-to-face instruction			
	■主要教學策略			
	講授Lecture 分組討論Group discussion 問題導向Problem-based			
評量 Student Assessment	■評量方式與評分比例分配 Evaluation Criteria			
	Students will be evaluated on the basis of their participation in class activities and on the basis of their completion of assignments and tests.			
	30% Mid-term exam 30% Final exam 40% Class activities and quizzes			
	■課堂要求 Course Requirements & Policies			
	REQUIREMENTS:			
	1. Course materials and class announcements will be uploaded to the Wenzao Cloud e-learning service. It is the student's responsibility to regularly check for updates.			
	2. Preparation before class, which includes completing assignments, previewing the scheduled content, and bringing the right material to class			
	3. Punctuality 3.1. Come to class on time before the bell rings. 3.2. Submit assignments on time. All late assignments will be graded 50 if it is turned in within two days after the due time. An assignment will be graded 0 if it's late for more than three days late. Therefore, it is your responsibility to make sure that the teacher has received your assignment.			
	4. Honesty and integrity. Whoever cheats (including plagiarism) will receive a zero as the score.			
	5. All students must abide by the attendance regulations set by Wenzao Ursuline University of Languages. Your class participation and learning attitude will be seriously considered for the final result of this course. 5.1. Being late for more than 10 minutes or leaving the class at least 10 minutes before the bell rings is an absence for the whole period.			
教材 Learning Materials	「請學生務必使用正版教科書」 Please respect copyright and use original textbooks.			
	■教科書 Textbooks			
	尚未輸入			
	■參考書目或網址 References or Websites			
尚未輸入				
教學用軟體	尚未輸入			

Software	
補充資料 Additional Remark	本科目無相關下載檔案。

貳、課程內容與進度(Course Content and Schedule)

週次 Week	上課日期 Date	單元名稱 Units	授課方式 Instructional Approaches	作業、報告、考試或其它 Assignments, Tests and Others	備註 Remarks
1	111/09/11 ~ 111/09/17	Orientation and Organization	Lecture and discussion		
2	111/09/18 ~ 111/09/24	Studying Life	Lecture and discussion		
3	111/09/25 ~ 111/10/01	Chemistry of Life	Lecture and discussion		
4	111/10/02 ~ 111/10/08	Cells	Lecture and discussion		
5	111/10/09 ~ 111/10/15	Metabolism	Lecture and discussion		
6	111/10/16 ~ 111/10/22	Genetics and Heredity	Lecture and discussion		
7	111/10/23 ~ 111/10/29	Genes and Proteins	Lecture and discussion		
8	111/10/30 ~ 111/11/05	Biotechnology	Lecture and discussion		
9	111/11/06 ~ 111/11/12			Mid-term exam	
10	111/11/13 ~ 111/11/19	Evolution	Lecture and discussion		
11	111/11/20 ~ 111/11/26	Microbial Life	Lecture and discussion		
12	111/11/27 ~ 111/12/03	Plant and Animal Systems	Lecture and discussion		
13	111/12/04 ~ 111/12/10	Ecosystems and Biodiversity	Lecture and discussion		
14	111/12/11 ~ 111/12/17	Circulatory and Respiratory Systems	Lecture and discussion		
15	111/12/18 ~ 111/12/24	Digestive and Nervous Systems	Lecture and discussion		
16	111/12/25 ~ 111/12/31	Immune and Reproductive Systems	Lecture and discussion		
17	112/01/01 ~ 112/01/07	Other Body Systems	Lecture and discussion		
18	112/01/08 ~ 112/01/14			Final exam	