

輔仁大學 113 學年度 學士班 必選修科目表
Bachelor's degree Curriculum plan of Academic Year 113 in Fu Jen Catholic University

Type	Module	Course Title	Credits	Select	prescribed credits	first grade		second grade		third grade		fourth grade		Minimum required credits for	Minimum number of required	Remark		
						first semester	second semester	first semester	second semester	first semester	second semester	first semester	second semester					
校訂 Courses Required by the University		導師時間 Time for Class Advisor	02795	R	0	0	0	0	0	0	0	0	0	0	0			
H o l i s t i c 全 人 教 育 課 程 E d u c a t i o n	核心課程 Core Abilities Courses	大學入門 Introduction to University Studies	00155	R	2	2								32	8			
		人生哲學 Philosophy of Life	00007	R	4			2	2									
		專業倫理-科技倫理 Professional Ethics-Scientific and Technology Ethics	08199	R	2							2						
		體育 Physical Education	00009	R	0	0	0	0	0									
	基本能力課程 Fundamental Courses	國文 Chinese	00001	R	4	2	2							12				
		外國語文 Foreign Language	10001	R	8	2	2	2	2									
		資訊素養 Information Literacy	***	R	0													
	通識涵養課程 General Education Courses	人文與藝術通識領域 Humanities & Arts	***	G	4									12				
		自然與科技通識領域 Nature & Technology	***	G	4													
		社會科學通識領域 Social Sciences	***	G	4													
院 系 R 修 課 程 D e p a r t m e n t R e q	C o m F o u n d a t i o n 課程	普通生物學(一) General Biology I	32632	R	3	3							30	9				
		普通化學(一) General Chemistry I	32197	R	3	3												
		程式設計(一) Computer Programming I	18630	R	3		3											
	C o r e 領 域 核 心 課 程 C o u r s e s	普通生物學(二) General Biology II	24159	R	3		3							21				
		有機化學 Organic Chemistry	01456	R	3		3											
		前瞻生命科學專題導論 Frontier topics in modern life science	30950	R	3		3											
		普通生物學實驗 General Biology Lab	02286	R	2	1	1											
		生物統計學 Biostatistics	01358	R	3			3										
		生物化學(一) Biochemistry I	07991	R	3			3										
		專題討論 Seminar	02154	R	2					1	1							
論文選讀 Seminar	02781	R	2							1	1							
本 系 生 物 資 源 B i o l o g i c a l R e s o u r c e s	必 修 c o u r s e s	生態學 Ecology	01371	R	3	3							36	18	畢業前至少需完成一學群(生物醫學學群或生物資源學群)之修課要求。 Before graduation, students must complete at least one course requirement (biomedical science			
		生物科學應用與發展 Application and Development of BioScience	34901	R	2			2										
		遺傳學 Genetics	02818	R	3				3									
		植物生理學 Plant Physiology	02298	R	3				3									
		永續資源導論 Introduction on Sustainable Resources	36665	R	2					2								
		動物生理學 Animal Physiology	02039	R	3					3								
		生物資源研究法 Research methods of Biological Resources	35310	R	2						2							
	必 選 修 c o u r s e s	生質能源概論 Introduction to Bioenergy	17807	R	3	3							16					
		微生物學 Microbiology	02381	R	3			3										
		昆蟲學 Entomology	01639	R	3				3									
		演化學 Evolution	16603	R	3					3								
		植物組織培養學 Plant Tissue Culture	24604	R	2					2								
		植物發育學 Plant Developmental Biology	24096	R	2					2								
		生物資源專題研究 Special Topics of Biological Resources	35311	R	2						2							

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Type	Module	Course Title	Credits	Select	prescribed credits	first grade		second grade		third grade		fourth grade		Minimum required credits	Minimum number of required	Remark
						first semester	second semester	first semester	second semester	first semester	second semester	first semester	second semester			
		醫衛分子檢測 Molecular Diagnosis of Medicine and Health	17019	R	2							2				
Holistic Education Credits A		32	Department Required Credits B	Required	48					Electives C Professional	10			Graduation credits A+B+C		128
				others	18					External	20	30				

輔仁大學 112 學年度 學士班 必選修科目表
Bachelor's degree Curriculum plan of Academic Year 113 in Fu Jen Catholic University

Type	Module	Course Title	Credits	Select	prescribed credits	first grade		second grade		third grade		fourth grade		Minimum required	Minimum number of	Remark		
						first semes	second	first semes	second	first semes	second	first semes	second					
校訂 Courses Required by the University		導師時間 Time for Class Advisor	02795	R	0	0	0	0	0	0	0	0	0	0	0			
		全民國防教育軍事訓練 All-out Defense Education Military Training	21020	R	0	0	0							0	0			
Holisti 全人教育課程 c Education	核心課程 Core Abilities Courses	大學入門 Introduction to University Studies	00155	R	2	2								32	8			
		人生哲學 Philosophy of Life	00007	R	4			2	2									
		專業倫理-科技倫理 Professional Ethics	08199	R	2							2						
		體育 Physical Education	00009	R	0	0	0	0	0									
	基本能力課程 Fundamental Courses	國文 Chinese	00001	R	4	2	2							12				
		外國語文 Foreign Language	10001	R	8	2	2	2	2									
		資訊素養 Information Literacy	***	R	0													
	通識涵養課程 General Education Courses	人文與藝術通識領域 Humanities & Arts	***	G	4									12				
		自然與科技通識領域 Nature & Technology	***	G	4													
社會科學通識領域 Social Sciences		***	G	4														
院系必修課程 Department Required	Fundamental	普通生物學(一) General Biology I	32632	R	3	3							30	9				
		普通化學(一) General Chemistry I	32197	R	3	3												
		程式設計(一) Computer Programming I	18630	R	3		3											
	Core Area Core Courses	普通生物學(二) General Biology II	24159	R	3		3							21				
		有機化學 Organic Chemistry	01456	R	3		3											
		前瞻生命科學專題導論 in modern life science	30950	R	3		3											
		普通生物學實驗 General Biology Lab.	02286	R	2	1	1											
		生物統計學 Biostatistics	01358	R	3			3										
		生物化學(一) Biochemistry I	07991	R	3			3										
		專題討論 Seminar	02154	R	2					1	1							
論文選讀 Seminar	02781	R	2							1	1							
本系生物資源 Biological Resources	必修 Required	生態學 Ecology	01371	R	3	3							36	18	畢業前至少需完成一學群(生物醫學學群或生物資源學群)之修課要求。Before graduation, students must complete at least one course requirement (biomedical science group or bioresources group).			
		生物科學應用與發展 Application and Development of BioScience	34901	R	2			2										
		遺傳學 Genetics	02818	R	3				3									
		植物生理學 Plant Physiology	02298	R	3				3									
		永續資源導論 Introduction on Sustainable Resources	36665	R	2					2								
		動物生理學 Animal Physiology	02039	R	3					3								
		生物資源研究法 Introduction on Sustainable Resources	35310	R	2						2							
	Resourc	生質能源概論 Introduction to Bioenergy	17807	R	3	3								18				
		微生物學 Microbiology	02381	R	3			3										
		昆蟲學 Entomology	01639	R	3				3									

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Type	Module	Course Title	Credits	Select	prescribed credits	first grade		second grade		third grade		fourth grade		Minimum required	Minimum number of	Remark		
						first semester	second semester	first semester	second semester	first semester	second semester	first semester	second semester					
es	必選 R e q u i r e d e l e c t i v e	演化學 Evolution	16603	R	3					3								
		植物組織培養學 Plant Tissue Culture	24604	R	2						2							
		植物發育學 Plant Developmental Biology	24096	R	2						2							
		生物資源專題研究 Special Topics of Biological Resources	35311	R	2							2						
		生物資訊學 Bioinformatics	06542	R	3							3						
		分子生物學 Molecular Biology	01166	R	3							3						
		基因工程技術原理 Principles of Gene Technology	10866	R	3							3						
		植物基因轉殖 Plant Gene Transfer	11746	R	2								2					
		生物資源應用特論 Special Topics of Biological Resources	36666	R	2								2					
		專題研究 Seminar	02152	R	2								2					
		海洋生物學 Marine Biology	19695	R	3									3				
		保育生物學 Conservation Biology	17021	R	2									2				
		基因體學 Genomics	32876	R	2									2				
本系 C 學 群 課 程 C L A S S C	必 修 C o u r s e s	動物組織學 Animal Histology	02042	R	3			3						36	18	畢業前至少需完成一學群（生物醫學學群或生物資源學群）之修課要求。Before graduation, students must complete at least one course requirement (biomedical science)		
		生物化學(二) Biochemistry II	08343	R	3				3									
		遺傳學 Genetics	02818	R	3					3								
		細胞生物學 Cellular Biology	04190	R	3						3							
		動物生理學 Special Topics of Animal Physiology	02039	R	3						3							
		分子生物學 Molecular Biology	01166	R	3							3						
	必 選 R e q u i r e d	微生物學 Microbiology	02381	R	3			3							6			
		比較解剖學 Comparative Anatomy	01268	R	3				3									
		動物生理學特論 Special Topics of Animal Physiology	08255	R	2						2							
		免疫學 Immunology	01560	R	3							3						
		病毒學 Virology	01964	R	3								3					
		必 選 R e q u i r e d	動物組織學實驗 Animal Histology Lab.	02043	R	1			1								4	
			微生物學實驗 Microbiology Lab.	02382	R	1			1									
			生物化學實驗 Biochemistry Lab.	01357	R	1				1								
			比較解剖學實驗 Comparative Anatomy Lab.	03080	R	1				1								
			細胞生物學實驗 Cellular Biology Lab.	04191	R	1					1							
			動物生理學實驗 Animal Physiology Lab.	02040	R	1						1						
			發育生物學實驗 Developmental Biology Lab.	35898	R	1						1						
		e l e c t i v e	基因工程技術原理實驗 Principles of Gene Technology Lab.	10867	R	1							1					
發育生物學 Developmental Biology	35314		R	3						3				8				
基因工程技術原理 Principles of Gene Technology	10866		R	3							3							
神經科學 Neuroscience	19694		R	2							2							

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Type	Module	Course Title	Credits	Select	prescribed credits	first grade		second grade		third grade		fourth grade		Minimum required	Minimum number of	Remark		
						first semes	second semes	first semes	second semes	first semes	second semes	first semes	second semes					
	e	生物醫學研究法 Methods for Biomedical Research	35315	R	2						2							
		組織工程學 Tissue Engineering	35900	R	3							3						
		基因治療 Gene Therapy	22747	R	2							2						
		基因體學 Genomics	32876	R	2								2					
		醫衛分子檢測 Molecular Diagnosis of Medicine and Health	17019	R	2								2					
Holistic Education Credits A		32	Department Required Credits B	Required others	48		66	Electives Credits C	Professional	10		30	Graduation credits A+B+C			128		
					18				External	20								

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Type	Module	Course Title	Credits	Select	prescribed credits	first grade		second grade		third grade		fourth grade		Minimum required	Minimum number of	Remark
						first semester	second semester	first semester	second semester	first semester	second semester	first semester	second semester			
		醫衛分子檢測 Molecular Diagnosis of Medicine and Health	17019	R	2								2			
Holistic Education Credits A		32	Department Required Credits B	Required	48	66		Electives Credits C	Professional	10	30		Graduation credits A+B+C			128
				others	18				External	20						

輔仁大學 110學年度 學士班 必選修科目表
Bachelor's degree Curriculum plan of Academic Year 113 in Fu Jen Catholic University

Type	Module	Course Title	Credits	Select	prescribed credits	first grade		second grade		third grade		fourth grade		Minimum required	Minimum number of	Remark			
						first semester	second semester	first semester	second semester	first semester	second semester	first semester	second semester						
校訂 Courses Required by the University	導師時間 Time for Class Advisor		02795	R	0	0	0	0	0	0	0	0	0	0	0				
	全民國防教育軍事訓練 All-out Defense Education Military Training		21020	R	0	0	0							0	0				
H o l i s t i c 全 人 教 育 課 程	核心課程 Core Abilities Courses	大學入門 Introduction to University Studies	00155	R	2	2								32	8				
		人生哲學 Philosophy of Life	00007	R	4			2	2										
		專業倫理-科技倫理 Professional Ethics	08199	R	2							2							
		體育 Physical Education	00009	R	0	0	0	0	0										
	基本能力課程 Fundamental Courses	國文 Chinese	00001	R	4	2	2							12					
		外國語文 Foreign Language	10001	R	8	2	2	2	2										
		資訊素養 Information Literacy	***	R	0														
	通識涵養課程 General Education Courses	人文與藝術通識領域 Humanities & Arts	***	G	4									12					
		自然與科技通識領域 Nature & Technology	***	G	4														
		社會科學通識領域 Social Sciences	***	G	4														
院 系 R 修 課 程 D e p a r t m e n t	C o u r s e	普通生物學(一) General biology I	32632	R	3	3								30	9				
		普通化學(一) General Chemistry I	32197	R	3	3													
		程式設計(一) Computer Programming I	18630	R	3		3												
	C o r e C o u r s e	普通生物學(二) General Biology II	24159	R	3		3									21			
		有機化學 Organic Chemistry	01456	R	3		3												
		前瞻生命科學專題導論 Frontiers in modern life science	30950	R	3		3												
		普通生物學實驗 General Biology Lab.	02286	R	2	1	1												
		生物統計學 Biostatistics	01358	R	3			3											
		生物化學(一) Biochemistry I	07991	R	3			3											
		專題討論 Seminar	02154	R	2					1	1								
論文選讀 Seminar	02781	R	2							1	1								
本 系 生 物 資 源 B i o l o g i c a l R e s o u r c e s	必 修 C o u r s e s	生態學 Ecology	01371	R	3	3								36	18	畢業前至少需完成一學群(生物醫學學群或生物資源學群)之修課要求。 Before graduation, students must complete at least one course requirement (biomedical science			
		生物科學應用與發展 Application and Development of BioScience	34901	R	2			2											
		遺傳學 Genetics	02818	R	3				3										
		植物生理學 Plant Physiology	02298	R	3				3										
		生物資源應用與發展(一) Application and Development of Biological Resources (I)	35308	R	2					2									
		動物生理學 Animal Physiology	02039	R	3					3									
		生物資源研究法 Introduction on Sustainable Resources	35310	R	2						2								
		生質能源概論 Introduction to Bioenergy	17807	R	3	3													
	必 選 R e q u i r e d	微生物學 Microbiology	02381	R	3			3							18				
		昆蟲學 Entomology	01639	R	3				3										
		演化學 Evolution	16603	R	3					3									
		植物組織培養學 Plant Tissue Culture	24604	R	2					2									
		植物發育學 Plant Developmental Biology	24096	R	2					2									
		生物資源專題研究 Special Topics of Biological Resources	35311	R	2						2								
		生物資訊學 Bioinformatics	06542	R	3						3								

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Type	Module	Course Title	Credits	Select	prescribed credits	first grade		second grade		third grade		fourth grade		Minimum required	Minimum number of	Remark	
						first semester	second semester	first semester	second semester	first semester	second semester	first semester	second semester				
	elective	分子生物學 Molecular Biology	01166	R	3						3						
		基因工程技術原理 Principles of Gene Technology	10866	R	3						3						
		植物基因轉殖 Plant Gene Transfer	11746	R	2							2					
		生物資源應用特論 Special Topics of Biological Resources	36666	R	2							2					
		專題研究 Seminar	02152	R	2							2					
		海洋生物學 Marine Biology	19695	R	3								3				
		保育生物學 Conservation Biology	17021	R	2								2				
		基因體學 Genomics	32876	R	2								2				
本系生物醫學 Biomedical	必修 Required	動物組織學 Animal Histology	02042	R	3			3						畢業前至少需完成一學群（生物醫學學群或生物資源學群）之修課要求。	36	18	
		生物化學(二) Biochemistry (II)	08343	R	3				3								
		遺傳學 Genetics	02818	R	3				3								
		細胞生物學 Cellular Biology	04190	R	3						3						
		動物生理學 Special Topics of Animal Physiology	02039	R	3						3						
		分子生物學 Molecular Biology	01166	R	3							3					
	必選 Required	必修 Required	微生物學 Microbiology	02381	R	3			3							6	
			比較解剖學 Comparative Anatomy	01268	R	3				3							
		必選 Required	elective	動物生理學特論 Special Topics of Animal Physiology	08255	R	2						2				4
				免疫學 Immunology	01560	R	3								3		
				病毒學 Virology	01964	R	3									3	
				動物組織學實驗 Animal Histology Lab.	02043	R	1			1							
				微生物學實驗 Microbiology Lab.	02382	R	1			1							
				生物化學實驗 Microbiology Lab.	01357	R	1				1						
				比較解剖學實驗 Comparative Anatomy Lab.	03080	R	1				1						
				細胞生物學實驗 Cellular Biology Lab.	04191	R	1						1				
				動物生理學實驗 Animal Physiology Lab.	02040	R	1						1				
				發育生物學實驗 Developmental Biology Lab.	35898	R	1						1				
				基因工程技術原理實驗 Principles of Gene Technology Lab.	10867	R	1								1		
				必選 Required	elective	發育生物學 Developmental Biology	35314	R	3							3	
基因工程技術原理 Principles of Gene Technology	10866	R	3									3					
神經科學 Neuroscience	19694	R	2									2					
生物醫學研究法 Methods for Biomedical Research	35315	R	2									2					
組織工程學 Tissue Engineering	35900	R	3										3				
基因治療 Gene Therapy	22747	R	2										2				
基因體學 Genomics	32876	R	2										2				
醫衛分子檢測 Molecular Diagnosis of Medicine and Health	17019	R	2										2				
Holistic Education Credits A	32		Department Required Credits B	Required	48	66		Electives Credits C	Professional	10	30		Graduation credits A+B+C	128			
				others	18				External	20							