

Department of Physics, NTHU

Undergraduate Program of Physics

Table of required courses and credits (applicable to students enrolling in 2020)

Categories	Courses		Credits		Note
			FS	SS	
University Required (30 credits)	College Chinese		2		
	English		8		
	General Education Courses	Core courses required	8-12		Min. one course respectively out of the 4 dimensions
		Optional courses	8-12		
		Total	20		
	Physical education		0		Required from Year 1 to Year 3
	Service Learning		0		60 hours required
	Conduct				Pass in each semester
Department Required (60 credits)	General chemistry		3	3	
	General chemistry laboratory		1	1	
	General physics		4	4	
	General physics laboratory		1	1	
	Calculus		4	4	
	Applied Mathematics		3	3	
	Electromagnetics		3	3	
	Experimental physics		2		
	Theoretical Mechanics		3	3	
	Thermal and Statistical Physics I		3		
	Quantum Physics		3	3	
	Modern Physics Experiment		2		
	Experimental Technique in Physics			2	
	Undergraduate Physics Colloquium		1		
Required Selective Courses Offered by Physics Dept. (12 credits)	Courses code “PHYS 3xxx” or “ASTR 3xxx” and above		12		Must choose min. one course in any of Introduction courses
Other Selective Courses (26 credits)			26		

Min. credits requirement at graduation: 128

*Double major students are required to take all the courses offered by Physics Dept.

Department of Physics, NTHU

Undergraduate Program of Astrophysics

Table of required courses and credits (applicable to students enrolling in 2020)

Categories	Courses		Credits		Note
			FS	SS	
University Required (30 credits)	College Chinese		2		
	English		8		
	General Education Courses	Core courses required	8-12		Min. one course respectively out of the 4 dimensions
		Optional courses	8-12		
		Total	20		
	Physical education		0		Required from Year 1 to Year 3
	Service Learning		0		60 hours required
	Conduct				Pass in each semester
Department Required (68 credits)	General chemistry		3	3	
	General chemistry laboratory		1	1	
	General physics		4	4	
	General physics laboratory		1	1	
	Calculus		4	4	
	Applied Mathematics		3	3	
	Theoretical Mechanics		3		
	Electromagnetics		3	3	
	Experimental physics		2		
	Thermal and Statistical Physics I		3		
	Quantum Physics		3	3	
	Undergraduate Physics Colloquium		1		
	General Astronomy (I) · (II)		3	3	Choose five in nine courses
	Applied Electronics (I)			3	
	Optics (1)		3		
	Intro. Elementary Particle Physics(I)		3		
	Introduction to Relativity (I)		3		
	Fundamentals of Observational Astronomy			3	
Introduction to Astrophysics			3		
Introduction to Modern Cosmology			3		
Required Selective Courses Offered by Physics Dept. (5 credits)	Courses code “PHYS 3xxx” or “ASTR 3xxx” and above		5		
Other Selective Courses (25 credits)			25		
Min. credits requirement at graduation: 128					
*Double major students are required to take all the courses offered by Physics Dept					

Department of Physics, NTHU

Undergraduate Program of Optics and Photonics

Table of required courses and credits (applicable to students enrolling in 2020)

Categories	Courses		Credits		Note	
			FS	SS		
University Required (30 credits)	College Chinese		2			
	English		8			
	General Education Courses	Core courses required		8-12		Min. one course respectively out of the 4 dimensions
		Optional courses		8-12		
		Total		20		
	Physical education		0		Required from Year 1 to Year 3	
	Service Learning		0		60 hours required	
	Conduct				Pass in each semester	
Department Required (71 credits)	General chemistry		3	3		
	General chemistry laboratory		1	1		
	General physics		4	4		
	General physics laboratory		1	1		
	Calculus		4	4		
	Applied Mathematics		3	3		
	Electromagnetics		3	3		
	Theoretical Mechanics I		3			
	Experimental physics		2			
	Experimental Technique in Physics			2		
	Quantum Physics		3	3		
	Applied Electronics		3	3		
	Applied Electronics Lab.		2			
	Optics		3	3		
	Introduction to Optical Physics			3		
	Optics Laboratory			2		
Undergraduate Physics Colloquium		1				
Required Selective Courses Offered by Physics Dept. (6 credits)	Courses code “PHYS 3xxx” or “ASTR 3xxx” and above		6		Must choose min. one course in any of Introduction courses	
Other Selective Courses (21 credits)			21			

Min. credits requirement at graduation: 128

*Double major students are required to take all the courses offered by Physics Dept.