## Department of Physics, NTHU

### **Undergraduate Program of Physics**

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

Catagorias	Courses		Cre	dits	Note
Categories			FS	SS	Note
	College Chinese			2	
	English			8	
University	General	Core courses required	8	-12	Min. one course respectively out of the 4 dimensions
Required	Education	Optional courses	8	-12	
(30 credits)	Courses	Total	,	20	
(50 cr cuits)	Physical education			0	Required from Year 1 to Year 3
	Service Lea	rning		0	60 hours required
	Conduct	•			Pass in each semester
	General che	emistry	3	3	
	General che	emistry laboratory	1	1	
	General phy	vsics	4	4	
	General phy	vsics laboratory	1	1	
Department	Calculus		4	4	
Department	Applied Mathematics		3	3	
Required	Electromagnetics		3	3	
	Experimental physics		2		
(60 credits)	Theoretical		3	3	
		Thermal and Statistical Physics I			
	Quantum Physics		3	3	
	Modern Physics Experiment		2		
	Experimental Technique in Physics			2	
	Undergradu	ate Physics Colloquium		1	
Required					
Selective		Courses code			
Courses	"PHYS	S 3xxx" or "ASTR 3xxx"	12		Must choose min. one course in
Offered by		and above		12	any of Introduction courses
Physics Dept.					
12 credits)					
Other			26		
Selective					
Courses					
(26 credits)					
Min. credits requirement at graduation: 128					
*Double major students are required to take all the courses offered by Physics Dep					

#### **Department of Physics, NTHU**

### **Undergraduate Program of Astrophysics**

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

~ .	Courses		Credits		Note	
Categories			FS SS			
	College Chinese			2		
	English		8			
University	General	Core courses required	8	3-12	Min. one course respectively out of the 4 dimensions	
Required	Education	Optional courses	8	8-12		
(30 credits)	Courses	Total	20			
	Physical education			0	Required from Year 1 to Year 3	
	Service Learning		0		60 hours required	
	Conduct	-			Pass in each semester	
	General cher	nistrv	3	3		
		nistry laboratory	1	1		
	General phys		4	4		
		sics laboratory	1	1		
	Calculus	Calculus		4		
	Applied Mat	hematics	3	3		
	Theoretical N		3			
_	Electromagn	etics	3	3		
Department	Experimenta	l physics	2			
Required	Thermal and	Statistical Physics I	3			
	Quantum Ph	ysics	3	3		
(68 credits)	Undergradua	te Physics Colloquium	1			
	General Astr	onomy (I) 、 (II)	3	3		
	Applied Electronics (I)			3		
	Optics (1)					
	Intro. Elementary Particle Physics(I)				Choose five in nine courses	
	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.	"PHYS	Courses code 3xxx" or "ASTR 3xxx" and above	5		Must choose min. one course in any of Introduction courses	
(5 credits) Other Selective Courses (25 credits)				25		
		*Double major student			edits requirement at graduation: 128 to take all the courses offered by Physics Dep	

#### **Department of Physics, NTHU**

### **Undergraduate Program of Optics and Photonics**

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

	Courses		Î	dits	<u> </u>	
Categories			FS	SS	Note	
	College Chinese			2		
	English			8		
University	General	Core courses required	8	-12	Min. one course respectively out of the 4 dimensions	
Required	Education	Optional courses	8	-12		
(30 credits)	Courses	Total	,	20		
(50 cr cuits)	Physical education			0	Required from Year 1 to Year 3	
	Service Lea	arning		0	60 hours required	
	Conduct				Pass in each semester	
	General che	emistry	3	3		
	General che	emistry laboratory	1	1		
	General phy	ysics	4	4		
	General phy	ysics laboratory	1	1		
	Calculus		4	4		
	Applied Ma	athematics	3	3		
Department	Electromag	netics	3	3		
Deguined	Theoretical	Mechanics I	3			
Required	Experimental physics		2			
(71 credits)	Experiment	al Technique in Physics		2		
	Quantum P	hysics	3	3		
	Applied Electronics		3	3		
	Applied Electronics Lab.		2			
	Optics		3	3		
	Introduction	n to Optical Physics		3		
	Optics Lab	oratory		2		
	Undergradu	ate Physics Colloquium	1			
Required						
Selective		Courses code				
Courses	"PHYS	3xxx" or "ASTR 3xxx"		6	Must choose min. one course in any	
Offered by	11115	and above		6	of Introduction courses	
Physics Dept.						
(6 credits)						
Other Selective Courses (21 credits)				21		
Min. credits requirement at graduation: 12 *Double major students are required to take all the courses offered by Physics Dep						