

MUST Curriculum Planning for Undergraduate Students for Academic Years 2025-2028
Department of Semiconductor and Electro-Optical Technology

1st year						2nd year						3rd year						
	Course	FEB 2025		SEP 2025			Course	FEB 2026		SEP 2026			Course	FEB 2027		SEP 2027		
		Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.	
MUST Core Required Courses	Classified general Education	2	2	2	2	MUST Core Required Courses	Classified general Education	2	2	2	2	MUST Core Required Courses						
	Classified general Education	2	2	2	2													
	Physical Education	2	2	2	2													
	Subtotal	6	6	6	6		Subtotal	2	2	2	2		Subtotal	0	0	0	0	
School Professional Required Courses	Technical English(I)(II)	2	2	2	2	School Professional Required Courses	Technical English(III)(IV)	2	2	2	2	School Professional Required Courses						
	Applied Chinese(I)(II)	2	2	2	2													
	Calculus(I)(II)	3	3	3	3													
	Physics and Physics Laboratory	2	2															
	Chemistry and Laboratory	2	2															
	Introduction to Computersand Programming	2	2															
	Introduction to Artificial Intelligence			2	2													
	Subtotal	13	13	9	9		Subtotal	2	2	2	2		Subtotal	0	0	0	0	
Compulsory Courses	Introduction to Semiconductors and Optoelectronics			2	2	Compulsory Courses	Electromagnetic(I)(II)	2	2	2	2	Compulsory Courses	Project of Semiconductor and Optoelectronics	1	1	1	1	
	Basic Electronics			2	2		Engineering Mathematics(I)(II)	3	3	3	3		Optoelectric Lab(II)	2	2			
	Electronics Lab(I)			3	3		Applied Electronics	2	2				Semiconductor Manufacturing Technology	3	3			
	Introduction to Materials			2	2		Electronics Lab(II)	3	3				Ethics for Engineers			2	2	
					Introduction to Modern Physics		3	3			Laser Engineering				2	2		
					Geometrical Optics				2	2								
					Optoelectric Lab(I)				2	2								
					Semiconductor Materials and Devices				3	3								
	Subtotal	0	0	9	9		Subtotal	13	13	12	12		Subtotal	6	6	5	5	
Elective Courses	Introduction to Semiconductor and Optoelectric Industry	1	1			Elective Courses	Programming Language	2	2			Elective Courses	Certification of Solid Design CAD and License Counseling	2	2			
	Basic Circuit Theory	2	2				Vacuum Technology	2	2				Computer-aided Optical System Design	2	2			
	Vector Analysis	3	3				Mechanism of Optoelectronic System	2	2				Graphical Programming Language Design	2	2			
	Chinese Proficiency Test Preparation (I)	2	2				CAD of Solid Design			2	2		Practice of Digital Circuits	2	2			
	Chinese Grammar and Writing	2	2				Graphical Programming Language Design			2	2		Thin Film Technology	2	2			
	Basic Electricity and Electricity Experiment			2	2		Introduction to Bio-Medicine			2	2		Solid State Lighting	2	2			
	Photoelectric Drawing and modeling			2	2								Wave Optics	2	2			
	Electronic Circuit and License Counseling			2	2								Optoelectronic Material & Device Physics	2	2			
	Chinese Proficiency Test Preparation (II)			2	2								Semiconductor Lab			3	3	
													Materials Analysis			3	3	
													Computer-aided Illumination System Design			2	2	
													Applied Circuits in Optoelectronics			2	2	
													Flat Panel Display			3	3	
													Optoelectronic Device and Application			2	2	
													Chromatics			2	2	
													Optical Thin Film and Coating Technology			2	2	
													Optoelectronic Detection Engineering			2	2	
													Introduction to Optical Microelectromechanical System			2	2	
													Semiconductor biomedical chip			2	2	

4th year					
	Course	FEB 2028		SEP 2028	
		Cr.	hr.	Cr.	hr.
MUST Core Required Courses					
	Subtotal	0	0	0	0
School Professional Required Courses					
	Subtotal	0	0	0	0
Compulsory Courses					
	Subtotal	0	0	0	0
Elective Courses	Off-Campus Practice Training(I)(II)	9	9	9	9
	Project of Semiconductor and Optoelectronics(I)(II)	3	3	3	3
	Design and Operation of TFT-LCD Panels	3	3		
	Creative Design in Optoelectronics	3	3		
	Liquid Crystal Materials and Optic	3	3		
	Solar Photovoltaic Technology	3	3		
	Computer-Assisted Design of Optical Thin Films	3	3		
	The Measurement of Semiconductors	3	3		
	Micro Opto Electro Mechanical Device and System	3	3		
	Solar-Cell-Driven LED Display			3	3
	Technology Management			3	3
	Semiconductor Material Analysis			3	3
	Nano Bio-photonics			3	3
	Technology of Organic Light-Emitting Diode display			3	3
	Projection Display Technology			3	3

Cr./hr.=Credit/hour

Remarks:

- 1.Minimum graduation credits: 128 credits, including 41 elective credits (at least 29 credits for this major, the rest can be other departments).
- 2.The first, second, and third grade, students must take 16-30 credits each semester, and 9-30 credits each semester in the 4th grade.
- 3.Elective courses for listed are subject to change if necessary.
- 4.According to university regulations, students are required to meet the graduation requirement of basic proficiency and professional skills.
- 5.For off-campus internship courses, please follow the relevant implementation regulations.

