	2021 Ac	ademic Four-Year Curricu	lum of Department of O	ptoelectronics and Materia	ls Engineering		For 2021 e	enrolled students
grade	freshman grade		sophomore grade		junior grade		senior grade	
semester	first semester	second semester	first semester	second semester	first semester	second semester	first semester	second semester
Basic Requred Courses (17credits)	Calculus(I)	3 Calculus(Π)	B Engineering Mathematics	3	Techonology English Report	2		
	Physics	3 Applied Chemistry	2					
		Basic Circuit Experiments	l .					
Core Requred Courses (38credits)	Photoelectric Science	2 Circuit Theory	2 Electronics	3 Electromagnetics	3 Senior Projects(I)	1 Senior Projects(Π)	1	
	Materials Science and Engineering(I)	3 Materials Science and Engineering(Π)	3 Optics	3 Introduction of Micro-processor	3 Optical and Materials Experiments(I)	1 Optical and Materials Experiments(Π)	1	
		Basic Programming (Python)★	Matlab Programming ★	3 Optical Design	3			
				Opto-electronical Materials	3			
Required Elective Courses (6credits)	Creativity Engineering(requred)	2 Applications of Office(requred)	2			Ethics of engineering(requred)	2	
Electives Courses (36credits)			Programming verification(Python)	3 Applied Artificial Intelligence★	3 IoT Applications	3 Human-Machine Interface and Virtual Reality	3 Employment Ethics	3 Factory Practice
			Introduction to Green Technology	3 Database System	3 Deep Learning Applications	3 Biomedical Image Processing	Manufacturing Practice	3 Business Experience
				Optical system technology application	3 Medical Data Analysis and Machine Learning	3 Biomedical Signal Processing	3 Interships	3 Work Ethics
				Metallographic Analysis	3 Optoelectronic and Semiconductor Components and Package Technology	3 Biomedical Data and Software Applications	Optoelectronics and Semiconductor Industry Development	3
				Semiconductor Process Technology	3 Principle of sensor	3 Solar cell manufacturing and inspection technology	3	
						Laser Principle and Applications	3	
School Requred Courses (28credits) include general education courses 22credits)	English(I)	2 English(Π)	English (IΠ)	1 English (IV)	1 Workplace English	0		
	physical education (I)	0 physical education(Π))					
			Qualifica	ntions for graduation from o	our department			1 1
ired credits: 83 credits (includ	ding 55 credits of our departmental re-	quired, 6 credits of English, and 22 credits	of General Education)					
es credits: 45 credits (includ	ling 36 credits of our departmental ele	ctives and 9 credits of other departments (C	General Education, Physical Education	, and Mlitary Training are not included in	the calculation))			

School and College Common required Notes

1. Students in our Department must complete the required credits of English and General Education courses in accordance with the "Regulations for English Courses at Chung Hua University" and "Regulations for General Education Courses at Chung Hua University" within the graduation period to be eligible for graduation.

2. Students must complete the required credits of physical education courses in accordance with the "Regulations for Physical Education Courses at Chung Hua University" within the period of study to be eligible for graduation.

3.In order to achieve the "Communication and Expression Ability" in the Basic Competency Index of CHU students, students of this department must complete and pass the English language test and the Chinese language test in accordance with the "Regulations for the Implementation of the English Language Test for CHU Students" within the period of study to be eligible for graduation.

4.In order to achieve the "Social Care Ability" in the basic competency index of CHU students, students of this department must complete the required 18 hours of service according to the "Implementation Guidelines for CHU Volunteer Campus Culture Promotion" within the term of study in order to be eligible for graduation.

5.In order to achieve the "Health and Fitness Ability" in the Basic Competency Index of CHU students, students must complete the required credits and pass the swimming ability and physical fitness tests in accordance with the "Regulations for Physical Education Courses at CHU" within the period of study to be eligible for graduation.

6.In order to achieve the "Information Application Ability" in the Basic Competency Index of CHU students, students must take the "Office Software Application" course (with a grade on the transcript), the "Basic Programming (Python)" course, and the "Matlab Programming" course, in accordance with the "Regulations for the Implementation of Information Application Ability Testing at CHU", and complete the required credits. The course is designed for students who have completed the required credits and passed the information application test.

7. In order to achieve the "Innovation and Creativity" in the basic competency index of CHU students, students must pass the assessment criteria and take the "Creative Engineering" course (with a grade on the transcript) and the "Senior Projects (1)" and "Senior Projects (2)" courses, which are required for the department's major, within the period of study. The student is eligible for graduation.

8.In order to achieve the "Basic Literacy" in the basic competency index for students in the College of Computer Science and Electrical Engineering of Chung Hua University, students must take and pass "Emotion Management and Interpersonal Communication" or a course recognized by the department in the General Education Studies 22 credit within the period of study.

9. In order to enable students to understand the curriculum characteristics of different colleges in our school, and to achieve the concept of interdisciplinary teaching in their freshman year, students are required to complete the "Intercollege Micro programs" in their freshman year, and the credits earned can be recognized as 9 credits in outside the department required.

10. Required elective course: defined as a course that must be taken within the period of study (withdrawal for the second time during the semester is considered not taken), and a grade in the subject on the transcript is recognized as an elective in the department's major field, and is eligible for graduation.

11. The core courses are marked with \star (Matlab Programming is recognized as Introduction to Computing, Basic Programming (Python) is recognized as Introduction to Visual Programming and Logic Design Computing, and Introduction to Artificial Intelligence is recognized as Introduction to Artificial Intelligence is recognized as Introduction to Artificial Intelligence).

12. The time sequence of courses for foreign students can be adjusted after the decision of the Department's Curriculum Planning Committee.