## National Taiwan Ocean University

0503-Department of Electrical Engineering (For the academic year 2024; Admission Status: International Students)

Subject category	Subject name	Credit points	Cross- disciplinary	Fin acad ye	emic	acad	ond emic ear	Th acad ye		Fou acade ye	emic	Fi acad ye	emic	Remarks
<b>U I</b>		•	subjects	F	S	F	S	F	S	F	S	F	S	
	Chinese	4	Unlimited	2	2									You can choose courses with different course codes, as long as you complete the required credits.
General education courses	English B9B01968 、 B9B01969	4	Unlimited	2	2									<ul> <li>English Credit Exemption Regulations:</li> <li>a) Passing the General English Proficiency Test (GEPT) Intermediate Level, First Stage, exempts 2 credits of Freshman English.</li> <li>b) Passing the GEPT Intermediate Level, Second Stage, exempts 4 credits of Freshman English.</li> <li>c) Passing the GEPT Advanced Level, First Stage, exempts 4 credits of Freshman English and 2 credits of Advanced English.</li> <li>d) Achieving equivalent scores in English proficiency tests approved by the Ministry of Education allows for processing according to the above regulations.</li> </ul>
	38- Advanced English	2	Unlimited			2								Can be taken starting from the second year and above.
	English Graduation Requirements B9D03TVS	0	Unlimited					0						According to the implementation guidelines for the English graduation threshold of our university, students who do not meet the university's English proficiency standards during their

											course of study must provide proof of non-compliance. After verification by their respective departments, they are required to take the "Essential English" course (zero credits) in place of the English proficiency test. Only those who pass this course can graduate.
Introduction to Artificial Intelligence B9M01024	2	Unlimited	2								Required Liberal arts Courses for Freshmen
Introduction to Oceanography B9M01Z64	2	Unlimited		2							Required Liberal arts Courses for Freshmen
11- Liberal arts courses	14	4			2,2	2,2	2,2	2			The courses in this field include four major subfields: Humanities Exploration, Social Dynamics, Technological Innovation, and Cross-disciplinary Sustainability. A minimum of 2 credits is required for Cross-disciplinary Sustainability, and each subfield can be credited for a maximum of 4 credits.
19- Physical education courses	0	Unlimited	0	0	0	0					Four semesters of mandatory courses with zero credits are required. The elective courses offered by the Physical Education Department each semester (one credit) are not included in the graduation credits.
Swimming Graduation Requirements B92A12P5	0	Unlimited					0				Those who meet one of the following conditions will be considered eligible: 1. Completed a swimming course during the academic period. 2. Participated in the school's swimming proficiency test and received certification for

														completing a fifty-meter swim from the Physical Education Office. 3. Previously engaged in swimming competitions, with recognized participation or performance certificates from the organizing authority. 4. Certified by a medical professional as unfit or unable to participate in swimming activities, with a specified period during which swimming is prohibited, and this period exceeds the remaining duration of the student's enrollment at the school.
Subtotal of go credits	eneral education course	28		6	6	6	4	4	2	0	0	0	0	
	General Physics B53114EE > B53214EE	4	Unlimited	2	2									
	Calculus B5311M9H B5321M9H	8	Unlimited	4	4									
	Introduction to Programming B5301M33	3	Unlimited	3										
Departmental required courses	Introduction to Programming Lab. B5301M30	1	Unlimited	1										
	Switching Circuit and Logic Design B5301498	3	Unlimited	3										
	Switching Circuit and Logic Design Lab. B53014EB	1	Unlimited	1										
	Introduction to Microprocessors B530111E	3	Unlimited		3									

Microprocessor Lab B5301N06	1	Unlimited	1							
Electric Circuits B5311P48 B5322P48	6	Unlimited	3	3						The course "Electric Circuits" is required to be taken sequentially in the first and second semesters.
Engineering Mathematics (I) B530108U	3	Unlimited	3							
Engineering Mathematics (II) B530208V	3	Unlimited		3						
Linear Algebra B5302S60	3	Unlimited		3						
Electromagnetics B5302P50	3	Unlimited		3						
Electronics B5312P17 、 B5322P17 、 B5333P17	9	Unlimited		3	3	3				
Lab for Electronics B5312P18 \ B5322P18 \ B5333P18	3	Unlimited		1	1	1				
Electromagnetic Waves B5302P49	3	Unlimited			3					
Probability Theory B5302T86	3	Unlimited			3					
Signals and Systems B5302D81	3	Unlimited			3					
Research in Special Topics(I) B53034GL	2	Unlimited					2			
Research in Special Topic (II) B53044GM	2	Unlimited						2		

Subtotal of credits	departmental required	67		14	16	16	13	4	2	2	0	0	0	
departmental mandatory elective courses	33- departmental mandatory elective	9	Unlimited				3	3	3					The six core courses, namely "Automatic Control," "Data Structure," "Physics of Semiconductor Devices," "Electric Machines," "Complex Variables," and "Communication Engineering," require a minimum selection of three courses. Additionally, students must take two specified courses in the corresponding field (refer to the elective courses for each field).
Subtotal of delective credits	lepartmental mandatory	9		0	0	0	3	3	3	0	0	0	0	
Т	otal credits	104		20	22	22	20	11	7	2	0	0	0	
Total	required credits	110												
Minimu	m elective credits	27												
Minimum	n graduation credits	137												
Note on minimum elective credits		<ol> <li>External elective credits should not exceed 12 credits, with a maximum of 6 credits from courses offered outside the College of Electrical Engineering and Computer Science.</li> <li>"Japanese" (up to 4 credits) can be counted as department-designated professional elective courses.</li> <li>Credits from "General education courses," "Military Training," and "Physical education courses" are not counted as department-designated professional elective credits.</li> </ol>												
Note on minin	mum graduation credits		•		•									
	Remarks	Total re	equired credits	(110)	), inclu	uding	requir	ed ele	ctive	credit	s of 1	5.		