National Taiwan Ocean University

060C-Department of Communications, Navigation and Control Engineering (For the academic year 2024; Admission Status: International Students)

Subject category	Subject name	Credit points	Cross-disciplinary subjects	First academic year		Second academic year		Third academic year		Fourth academic year		Fifth academic year		Remarks
				F	S	F	S	F	S	F	S	F	S	
General Education Courses	Chinese	4	Unlimited	2	2									Two credits per semester.
	English B9B01968、B9B01969	4	Unlimited	2	2									English: two credits per semester.
	38- Advanced English	2	Unlimited			2								
	11- Liberal arts courses	14	4	2	2	2,2	2,2	2						This field includes four major subfields: Humanities Exploration, Social Dynamics, Technological Innovation, and Interdisciplinary Sustainability. A minimum of two credits must be earned in Interdisciplinary Sustainability, and a maximum of four credits can be earned in each subfield.
	Introduction to Oceanography B9100Z64	2	Unlimited		2									Liberal Arts Courses Requirement
	19- Physical education courses	0	Unlimited	0	0	0	0							Students must complete four semesters of zero-credit mandatory courses, including at least one semester of a swimming course. However, students who meet the university's criteria for exemption from the swimming course may be exempted and are required to take another physical education course instead. The regulations for exempting students from the swimming course are specified separately by the university.

Course	Credits															Notes
Swimming Graduation Requirements B92A12P5	0	Unlimited					0									One of the following conditions must be met for exemption: 1. Completion of a swimming course during the study period. 2. Participation in the university's swimming ability assessment and certification by the Sports Office as capable of swimming 50 meters. 3. Participation in swimming competitions with certification of participation or results from the organizing body. 4. A medical certificate stating that the student is unable to engage in swimming and specifying the duration of the restriction, which must exceed the remaining study period at the university.
English Graduation Requirements B9D03TVS	0	Unlimited					0									According to the university's English graduation threshold guidelines, students who do not meet the English proficiency standards during their studies must provide proof of not passing. After verification and registration by their respective departments, they are required to take the "English Enhancement" course (zero credits) as a substitute for the English proficiency test. Only those who pass this course will be eligible to graduate.
Introduction to Artificial Intelligence B9M01024	2	Unlimited	2													Liberal Arts Courses Requirement

	Course	Credits		Sem1	Sem2	Sem3	Sem4	Sem5	Sem6	Sem7	Sem8	Sem9	Sem10	Notes
Subtotal of general education course credits		28		8	8	6	4	2	0	0	0	0	0	
	Introduction to Communication、Navigation and Control B6C011IX	1	Unlimited	1										
	Introduction to Computer Science B6C0199M	3	Unlimited	3										
	Practice of Computer Structure B6C0197L	1	Unlimited	1										Two hours of internship per week.
	General Physics B6C11L66、B6C21L66	6	Unlimited	3	3									
	Calculus B6C11M97、B6C21M97	6	Unlimited	3	3									
	Programming Language and Software Design B6C01M33	3	Unlimited		3									
	Linear Algebra B6C02S60	3	Unlimited		3									
	Engineering Mathematics(1) B6C0222M	3	Unlimited			3								
	Engineering Mathematics(2) B6C023R7	3	Unlimited				3							
	Electronic Circuits Laboratory B6C120K8、B6C220K8	2	Unlimited			1	1							Two hours of internship per week.
	Electric Circuits	3	Unlimited			3								

Course	Credits	Availability											Remarks
B6C02P48													
Electronics(1) B6C02P1A	3	Unlimited			3								
Electronics(2) B6C03P1A	3	Unlimited				3							
Probability B6C02T0G	3	Unlimited				3							
Signals and Systems B6C02D81	3	Unlimited				3							
Navigation Systems B6C02T52	2	Unlimited					3						
Navigation System Laboratory B6C020HC	2	Unlimited						2					Four hours of internship per week.
Automatic Control Systems B6C02625	3	Unlimited					3						
Control Systems Laboratory B6C03629	2	Unlimited						2					Four hours of internship per week.
Communication Theory B6C0301N	3	Unlimited					3						
Communications Systems Laboratory B6C030HA	2	Unlimited						2					Four hours of internship per week.
Electromagnetics B6C03P50	3	Unlimited						3					
Directed Research B6C031L2	1	Unlimited						1					
Directed Research B6C0439D	1	Unlimited							1				
Subtotal of required courses credits	66		11	12	10	13	9	10	1	0	0	0	
Total credits	94		19	20	16	17	11	10	1	0	0	0	
Total required credits	94												
Minimum elective credits	40												
Minimum graduation credits	134												

Note on minimum elective credits	A minimum of 24 credits must be earned from departmental electives.
Note on minimum graduation credits	
Remarks	1. Students pursuing a double major within this department must complete all required courses of this department.