

## 0702-Department of Mechanical and Mechatronic Engineering (For the academic year 2023; 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	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.
	Introduction to Oceanography B9M01Z64	2	Unlimited		2									A required liberal arts courses for all freshmen at the university.
	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.
	12-Chinese	4	Unlimited	2	2										Two credits each for the first and second semesters of the freshman year.
	English B9B01968 、 B9B01969	4	Unlimited	2	2										Freshman English is divided into two semesters, each worth 2 credits. For international students outside the English-speaking field, a total of four credits must be completed in the foreign language area. English-speaking nationality students are required to take foreign language courses in a language other than their native language.
	38- Advanced English	2	Unlimited			2									
	11- Liberal arts courses	14	4			2,2	2,2	2	2						This field encompasses four sub-areas: humanities exploration, societal dynamics, technological innovation, and interdisciplinary sustainability. A minimum of two credits is required for interdisciplinary sustainability, with each sub-area allowing a maximum of four credits. The College of Engineering has course regulations that permit the selection of courses from the four major areas. The semesterly elective distribution for the General Education courses is provided for

														graduation qualification assessment and credit exemption purposes. For elective distribution and course regulations for each department, please refer to the General Education Center's webpage on "Liberal Arts Courses," specifically the "Credit Distribution and Course Regulations for Required Subjects in Each Department from the 112th Academic Year Onward."
	19- Physical education courses	0	Unlimited	0	0	0	0							2 hours of class per week.
	Service-Learning Program-Campus Service(I) B7201NNX	0	Unlimited	0										1 hours of Internship per week.
	Service-Learning Program-Campus Service (II) B7201NNY	0	Unlimited		0									1 hours of Internship per week. The course " Service-Learning Program _Community Service" is also eligible for credit exemption.
	Introduction to Artificial Intelligence B9M01024	2	Unlimited	2										Required Liberal arts Courses for Freshmen
	Subtotal of general education course credits	28		8	6	6	4	2	2	0	0	0	0	
Departmental required courses	Engineering Graphics B7201083	1	Unlimited	1										
	Engineering Graphics Drawing B7201081	1	Unlimited	1										3 hours of Internship per week.
	Matlab Programming Language B7201ML1	3	Unlimited	3										
	Work Shop Practice B7201099	1	Unlimited	1										4 hours of Internship per week. One class is offered each semester; Class



	B7202070													
	Mechanics of Materials B7202690	3	Unlimited				3							
	Machine Design B7203T79	3	Unlimited						3					
	Mechanism B7203T74	3	Unlimited					3						
	Manufacture Process B7203T83	3	Unlimited					3						
	Fluid Mechanics B7203925	3	Unlimited					3						
	Heat Transfer B7203S51	3	Unlimited						3					
	Automatic Control Systems (I) B7203635	3	Unlimited					3						
	CapStone-Research B7203I36	2	Unlimited						2					
	Mechanical and Mechatronic Engineering Laboratory (I) B7203N6W	1	Unlimited							1				3 hours of Internship per week.
	Mechanical and Mechatronic Engineering Laboratory ( II ) B7204N6V	1	Unlimited								1			3 hours of Internship per week.
	General Chemistry(I) B7201L6L	2	Unlimited											
	General Chemistry Lab. B7201L6G	1	Unlimited											2 hours of Internship per week.
Subtotal of credits	departmental required	74		12	13	15	12	12	9	1	0	0	0	

Departmental Required Courses of Specialty	23-Departmental Required Courses of Specialty	12	Unlimited					3	3	3	3			Referring to the regulations for course requirements in the study domain, courses in the main domain are not restricted by academic year, and a minimum of 12 credits of required and elective courses in the study domain must be completed.
Subtotal of departmental required courses of specialty credits		12		0	0	0	0	3	3	3	3	0	0	
Total credits		114		20	19	21	16	17	14	4	3	0	0	
Total required credits		114												
Minimum elective credits		18												
Minimum graduation credits		132												
Note on minimum elective credits		At least 12 credits of elective courses from this department are required.												
Note on minimum graduation credits		<ol style="list-style-type: none"> <li>1 To graduate, students must complete a minimum of 98 credits of courses offered by the department. This includes compulsory common professional courses (74 credits), compulsory and elective courses in the chosen major area (at least 12 credits), and 12 credits of other elective courses offered by the department.</li> <li>2 Students must choose one major area based on their interests and take the required courses within that area, which are mandatory credit requirements. Please refer to the course regulations for each major area for details on compulsory courses.</li> <li>3 Liberal arts courses are limited to 2 credits and are included in the "minimum graduation credits."</li> <li>4 National defense education is not included in the calculation of "minimum graduation credits."</li> </ol>												
Remarks		<ol style="list-style-type: none"> <li>1 Regarding the courses listed in the curriculum of the College of Engineering from other departments, students may apply for exemption in writing. Upon approval by the department chair, these courses may be considered as elective credits for our department.</li> <li>2 Double major students in our department should complete all required courses and elective courses totaling 12 credits.</li> <li>3 Once students have chosen their major and minor fields, the final deadline for adjusting field groups is before the start of the fourth academic year. No adjustments will be accepted after this deadline.</li> </ol>												









熱力學(一) B7202S42	3	不限			3								
熱力學(二) B7202S43	3	不限				3							
動力學 B7202H30	3	不限			3								
工程材料學 B7202070	3	不限			3								
材料力學 B7202690	3	不限				3							
機械設計 B7203T79	3	不限						3					
機動學 B7203T74	3	不限					3						
機械製造 B7203T83	3	不限					3						
流體力學 B7203925	3	不限					3						
熱傳學 B7203S51	3	不限						3					
自動控制(一) B7203635	3	不限					3						
專題研究 B7203I36	2	不限						2					
機械與機電工程實驗(一) B7203N6W	1	不限						1					每週實習 3 小時
機械與機電工程實驗(二) B7204N6V	1	不限							1				每週實習 3 小時
普通化學(一) B7201L6L	2	不限											
普通化學實驗 B7201L6G	1	不限											每週實習 2 小時
系訂專業必修學分小計	74		12	13	15	12	12	9	1	0	0	0	

系訂主領域必修及選修	23-機械系主領域	12	不限					3	3	3	3			參考學習領域修課規定，主領域課程不限修習年級，修習學習領域所屬之必修及選修課程至少 12 學分。	
	系訂主領域必修及選修學分小計	12		0	0	0	0	3	3	3	3	0	0		
	總學分	114		20	19	21	16	17	14	4	3	0	0		
	必修總學分數	114													
	選修最低學分數	18													
	畢業最低學分數	132													
	選修最低學分數備註	須含本系選修課程至少 12 學分													
	畢業最低學分數備註	<p>一、需修習本系所開設之課程至少 98 學分始可畢業：共同專業必修課程（74 學分）、主領域必修及選修（至少 12 學分）及本系其他選修 12 學分。</p> <p>二、學生須依興趣擇一主領域，修習學習領域所屬之課程，並為必選之學分數。各學習領域之主領域必修課程請參考學習領域修課規定。</p> <p>三、博雅課程列入「畢業最低學分」之選修課程以 2 學分為限。</p> <p>四、國防教育不列入「畢業最低學分」之計算。</p>													
	備註	<p>一、工學院各項學程課程表所列之外系課程，學生經書面申請抵免並經系主任審核同意後，得視為本系選修學分數。</p> <p>二、修讀本系雙主修學生，應修滿本系全部必修科目與選修課程 12 學分。</p> <p>三、學生擇定主領域及副領域後，晉升四年級開學日前為最終修改領域組別時間，逾期恕不受理調整。</p>													