



SCCT 4 years (แผนการศึกษาในเล่ม มม.2)

SCCT แผนการเรียน 4 ปี (ชั้นปีที่ 1 แผน 3 ปี และแผน 4 ปี ลงทะเบียนเหมือนกัน)

1 st Year Semester 1			1 st Year Semester 2		
SCBE 101	General Biology I	3 (3-0-6)	SCCT 112	Analytical Chemistry	3 (3-0-6)
SCBE 102	General Biology Laboratory	1 (0-3-1)	SCCT 116	Analytical Chemistry Laboratory	1 (0-3-1)
SCCT 111	Principle of Chemistry	3 (3-0-6)	SCCT 118	Chemistry Laboratory II	1 (0-3-1)
SCCT 117	Chemistry Laboratory I	1 (0-3-1)	SCCT 121	Principle of Organic Chemistry	3 (3-0-6)
SCMA 174	Calculus and system ODE	3 (3-0-6)	SCCT 141	Chemical Structure and Properties	3 (3-0-6)
SCPY 180	General Physics	3 (3-0-6)			
SCPY 111	Basic Physic Laboratory	1 (0-3-1)			
LAEN 180	English for Academic Purpose I	2 (2-0-4)	LAEN 181	English for Academic Purpose II	2 (2-0-4)
xxx	General education	3 (3-0-6)	SCGI 134	Internet of Things and Big Data	3 (3-0-6)
xxx	General education	2 (2-0-4)	xxx	General Education	3 (3-0-6)
			xxx	Free Elective	2 (2-0-4)
	Total Credits	22		Total Credits	21

1 nd Year Summer		
SCSI xxx	General Education	0-5
xxx xxx	Free Elective	0-2
	Total Credits	5



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2 nd Year Semester 1			2 nd Year Semester 2		
SCCT 212	Instrumental Analysis	3 (3-0-6)	SCCT 232	Energy Balance and Analysis	3 (2-2-5)
SCCT 221	Chemical Transformations	3 (3-0-6)	SCCT 251	Chemical Innovation I	2 (2-0-4)
SCCT 226	Building Molecules	1 (0-3-1)	SCCT 261	Polymers from Origin to Technology	3 (3-0-6)
SCCT 231	Chemical Dynamics in Industrial Applications	3 (2-2-5)	SCCT 262	Tools for Giant Molecules	2 (2-0-4)
SCCT 241	Chemical Elements in Modern World	2 (2-0-4)	SCCT 271	Instrumental Analysis Laboratory	2 (0-6-2)
			SCCT 281	Digital Transformation	2 (2-0-4)
SCSI 211	Chemical Safety and Hazardous Waste management	3 (3-0-6)			
SCSI 212	Cooperative Education Preparation	2 (2-0-4)			
xxx	Free Elective	2 (2-0-4)	xxx	Free Elective	2 (2-0-4)
Total Credits		19	Total Credits		16

2 nd Year Summer	
SCCT xxx	Specific Courses 0-7
Total Credits 7	



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3 rd Year Semester 1			3 rd Year Semester 2		
SCCT 331	Quantum Developments	3 (2-2-5)	SCCT 352	Industrial Experienced-Based Learning	2 (2-0-4)
SCCT 371	Advance Chemical Technology Laboratory	1 (0-3-1)	SCCT 382	Carbon Neutrality	2 (2-0-4)
SCCT xxx	Elective course I	3 (3-0-6)	SCCT 395	Scientific Communication	1 (1-0-2)
SCCT xxx	Elective course II	2 (2-0-4)	SCCT xxx	Elective course III	3 (3-0-6)
xxx	General education	2 (3-0-6)	SCCT xxx	Elective course IV	2 (3-0-6)
xxx	General education	2 (3-0-6)			
Total Credits		13	Total Credits		10

3 rd Year Summer	
SCSI xxx	General Education 0-7
Total Credits 7	



2.3) Major Elective courses

no less than 15 Credits

SCCT 314	Environmental Chemistry	3 (3-0-6)
SCCT 321	Drug Design and Drug Action	3 (3-0-6)
SCCT 322	Molecular Design and Synthesis	3 (3-0-6)
SCCT 325	Problem Solving in Chemistry	2 (2-0-4)
SCCT 332	Charge Transfer Systems and Technologies	3 (3-0-6)
SCCT 342	Colour Dye and Textile	2 (2-0-4)
SCCT 383	Chemistry Start-Ups	2 (2-0-4)
SCCT 392	Frontiers in Chemical Technology	2 (2-0-4)
SCCT 411	Automation in Chemical Analysis	3 (2-0-6)
SCCT 412	Innovative Chemical Sensors	3 (3-0-6)
SCCT 423	Green Chemistry	3 (3-0-6)
SCCT 424	Molecular Assembly and Applications	3 (3-0-6)
SCCT 443	Inorganic Chemistry in Industry	2 (2-0-4)
SCCT 461	Plastics Technology for Sustainability	2 (2-0-4)
SCCT 462	Through the Rubber World	2 (2-0-4)
SCCT 463	Composites for the Future	2 (2-0-4)
SCCT 464	Product Development	2 (2-0-4)
SCCT 465	Keys to Surface and Coating innovation	2 (2-0-4)