This is your 2021 Curriculum Structure & Guide for:

Bachelor of Science in Information Technology (International)

Curriculum Structure: 160 credits total

1. General Education Courses (40 Credits)
General Education courses serve as a foundation for your major and helps you develop a well-rounded body of knowledge and skills. You must choose 10 subjects in the following categories. We've recommended a year to help you decide when to take any given subject.

1.1 Humanities – *Please choose one subject (4 credits) from the following list of courses*

Course Code		Course Name		☑	Course Code		Course Name		☑
ART	101	Art Appreciation	1	☐	HIS	106	Introduction to World Civilization	1	☐
ART	102	Film Appreciation	1	☐	LIT	300	Fiction into Film	3	☐
ATH	101	Introduction to Cultural Anthropology	1	☐	LIT	310	International Short Stories (Pre: ENG 102)	3	☐
ATH	102	Mythology and Folklore	1	☐	LIT	311	Stories of Asia (Pre: ENG 102)	3	☐
ECO	101	Sufficiency Economy	1	☐	MUS	101	Music of World Cultures	1	☐
LIB	155	Creative Writing (Pre: ENG 102)	2	☐	PHI	101	Introduction to Western Philosophy	1	☐
LIB	215	Popular Fiction	2	☐	PHI	102	Introduction to Eastern Philosophy	1	☐
LIB	223	Presentation Skills (Pre: ENG 101)	2	☐	PHI	103	Introduction to Comparative Philosophies	1	☐
HIS	101	Thai History and Culture	1	☐	POL	104	Issues in International Human Rights	1	☐
HIS	103	Asia in a Global Perspective	1	☐	SOC	104	Comparative World Religions	1	☐
HIS	104	Foundation of Western Civilization	1	☐	LAN	101	Foreign Language I	3	☐
HIS	105	Foundation of Eastern Civilization	1	☐	LAN	102	Foreign Language II	4	☐

1.2 Social Sciences – *Please choose two subjects (8 credits) from the following list of courses*

Course Code		Course Name		☑	Course Code		Course Name		☑
GEO	101	World Geography	1	☐	SOC	222	Business Culture and Current Issues in Western Europe	2	☐
GEO	102	Cultural (Human) Geography	1	☐	SOC	223	Business Culture and Current Issues in Latin America	2	☐
PSY	101	General Psychology	1	☐	SOC	224	Business Culture and Current Issues in Africa	2	☐
PSY	102	Personality Development	1	☐	SOC	225	Business Culture and Current Issues in North America	2	☐
PSY	201	Business Psychology	2	☐	SOC	226	Business Culture and Current Issues in the Middle East	2	☐
PSY	202	Developmental Psychology	2	☐	SOC	227	Business Culture and Current Issues in China	2	☐
SOC	101	Introduction to Sociology	1	☐	SOC	228	Business Culture and Current Issues in Japan	2	☐
SOC	221	Business Culture and Current Issues in ASEAN	2	☐	SOC	229	Business Culture and Current Issues in Eastern Europe	2	☐

1.3 Languages – *You must complete the following 3 subjects (12 credits)*

Course Code		Course Name	Year	☑
ENG	101	Introduction to Academic Writing	1	☐
ENG	102	Academic Writing (Pre: ENG 101)	1	☐
ENG	103	College English III (Pre: ENG 102)	2	☐

1.4 Science & Mathematics – *Please choose 4 subjects (16 credits) from the first lists below.*

Course Code		Course Name	Year	☑	Course Code		Course Name	Year	☑
MAT	101	College Algebra I (Pre: MAT 100)	1	☐	MIS	103	Computer Applications	1	☐
MAT	102	Quantitative Methods for Business (Pre: MAT 101)	1	☐	STA	101	Introduction to Statistics (Pre: MAT 101)	1	☐

2. Professional Courses (100 Credits)

Professional courses serve as the main body of knowledge and skills of your degree and make up 25 subjects (100 credits) in total. Your basic core courses will help you develop essential business abilities alongside other IT students, and your Major Requirements will generally involve more advanced topics relating to fundamental knowledge of IT. Your 5 Major Elective courses will then allow you to focus your studies in a specific branch of business and give you the option to select a minor.

2.1 Basic Core – *You must complete the following 4 subjects (16 credits)*

Course Code		Course Name	Year	☑	Course Code		Course Name	Year	☑
ITE	101	Information Technology Fundamentals	1	☐	ITE	103	Introduction to Data Structure and Algorithms Analysis	3	☐
ITE	102	Discrete Mathematics Structure (Pre: MAT 101)	1	☐	ITE	104	Computer Organization	3	☐

2.2 Major Requirements – *You must complete the following 16 subjects (64 credits)*

Course Code		Course Name	Year	☑	Course Code		Course Name	Year	☑
ITE	210	Social and Professional Issues in Information Technology	1	☐	ITE	479	IT Planning and Project Management	3	☐
ITE	321	System Analysis, Design, and Implementation	1	☐	ITE	331	Introduction to 3D Modeling and Virtual Reality	3	☐
ITE	120	Web Development I (Pre: ITE 254 and ITE 221)	2	☐	ITE	441	Database Management Systems I	2	☐
ITE	224	Introduction to Data Science (Pre: ITE 102 and STA 101)	2	☐	ITE	442	Database Management Systems II (Pre: ITE 441)	2	☐
ITE	233	Introduction to Internet of Things (Pre: ITE 221)	3	☐	ITE	222	Programming II (Pre: ITE 221)	2	☐
ITE	221	Programming I (Pre: ITE 103)	1	☐	ITE	254	Human Computer Interaction	2	☐
ITE	231	System Administration and Maintenance	3	☐	ITE	420	Information Assurance and Security I (Pre: ITE 475)	2	☐
ITE	240	Operating Systems	2	☐	ITE	475	Network I	2	☐

2.3 Major Electives – *Please choose 5 subjects (20 credits) from the following list*

Students who successfully complete 20 credits from within the same track will be awarded a certificate of Specialized Study in that track. If students do not choose to follow these tracks, they will not be awarded a certificate.

Software Engineering Track									
Course Code		**Course Name**	**Year**	☑	**Course Code**		**Course Name**	**Year**	☑
ITE	220	Web Development II (Pre: ITE 222)	3	☐	ITE	367	Software Architecture and Modelling (Pre: ITE 321)	3	☐
ITE	343	Mobile Application Development (Pre: ITE 222)	3	☐	ITE	368	Software Testing and Maintenance (Pre: ITE 222)	3	☐
ITE	365	Software Quality Management	3	☐					

E-Commerce Technology Track									
Course Code		**Course Name**	**Year**	☑	**Course Code**		**Course Name**	**Year**	☑
MKT	213	Principles of Marketing	3	☐	MKT	345	Gamification	3	☐
MKT	333	Digital Marketing	3	☐	ITE	362	Digital Advertising Technology	3	☐
ITE	340	E-Commerce Systems and Infrastructure (Pre: ITE 220)	3	☐					

Data Science Track									
Course Code		**Course Name**	**Year**	☑	**Course Code**		**Course Name**	**Year**	☑
ITE	351	Programming for Data Science (Pre: ITE 224)	3	☐	ITE	354	Business Intelligence and Decision Modeling (Pre: ITE 224)	3	☐
ITE	352	Artificial Intelligence and Machine Learning (Pre: ITE 224)	3	☐	ITE	355	Data Warehousing and Data Mining (Pre: ITE 224)	3	☐
ITE	353	Machine Learning Foundation (Pre: ITE 224)	3	☐					

		Network and Security Track							
Course Code		**Course Name**	**Year**	☑	**Course Code**		**Course Name**	**Year**	☑
ITE	201	IT Service Desk & Incident Management	3	☐	ITE	476	Network II (Pre: ITE475)	3	☐
ITE	421	Information Assurance and Security II (Pre: ITE 420)	3	☐	ITE	477	Window Server	3	☐
ITE	451	AWS Cloud Foundations	3	☐					

3. Free Electives (8 Credits)
*Free electives allow you to study in an area of personal interest. You must complete **2 subjects** in this category and you may choose any subject you are eligible for offered at the university.*

4. Internship (12 Credits)
Your Internship allows you to put into practice the knowledge and skills you acquired during your coursework and reflect on how well you can apply these skills. Your Internship is to be taken in your last term, after completing all your coursework and will provide you with your final 12 credits to graduate.