

STIU Curriculum Structure & Guide

Information Technology (2021)

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

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

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

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

Course Code	Course Name	Year	✓
ENG 101	Introduction to Academic Writing	1	<input type="checkbox"/>
ENG 102	Academic Writing (Pre: ENG 101)	1	<input type="checkbox"/>
ENG 103	College English III (Pre: ENG 102)	2	<input type="checkbox"/>

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	<input type="checkbox"/>	MIS 103	Computer Applications	1	<input type="checkbox"/>
MAT 102	Quantitative Methods for Business (Pre: MAT 101)	1	<input type="checkbox"/>	STA 101	Introduction to Statistics (Pre: MAT 101)	1	<input type="checkbox"/>

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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	<input type="checkbox"/>	ITE 103	Introduction to Data Structure and Algorithms Analysis	3	<input type="checkbox"/>
ITE 102	Discrete Mathematics Structure (Pre: MAT 101)	1	<input type="checkbox"/>	ITE 104	Computer Organization	3	<input type="checkbox"/>

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	<input type="checkbox"/>	ITE 479	IT Planning and Project Management	3	<input type="checkbox"/>
ITE 321	System Analysis, Design, and Implementation	1	<input type="checkbox"/>	ITE 331	Introduction to 3D Modeling and Virtual Reality	3	<input type="checkbox"/>
ITE 120	Web Development I (Pre: ITE 254 and ITE 221)	2	<input type="checkbox"/>	ITE 441	Database Management Systems I	2	<input type="checkbox"/>
ITE 224	Introduction to Data Science (Pre: ITE 102 and STA 101)	2	<input type="checkbox"/>	ITE 442	Database Management Systems II (Pre: ITE 441)	2	<input type="checkbox"/>
ITE 233	Introduction to Internet of Things (Pre: ITE 221)	3	<input type="checkbox"/>	ITE 222	Programming II (Pre: ITE 221)	2	<input type="checkbox"/>
ITE 221	Programming I (Pre: ITE 103)	1	<input type="checkbox"/>	ITE 254	Human Computer Interaction	2	<input type="checkbox"/>
ITE 231	System Administration and Maintenance	3	<input type="checkbox"/>	ITE 420	Information Assurance and Security I (Pre: ITE 475)	2	<input type="checkbox"/>
ITE 240	Operating Systems	2	<input type="checkbox"/>	ITE 475	Network I	2	<input type="checkbox"/>

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	<input type="checkbox"/>	ITE 367	Software Architecture and Modelling (Pre: ITE 321)	3	<input type="checkbox"/>
ITE 343	Mobile Application Development (Pre: ITE 222)	3	<input type="checkbox"/>	ITE 368	Software Testing and Maintenance (Pre: ITE 222)	3	<input type="checkbox"/>
ITE 365	Software Quality Management	3	<input type="checkbox"/>				

E-Commerce Technology Track

Course Code	Course Name	Year	✓	Course Code	Course Name	Year	✓
MKT 213	Principles of Marketing	3	<input type="checkbox"/>	MKT 345	Gamification	3	<input type="checkbox"/>
MKT 333	Digital Marketing	3	<input type="checkbox"/>	ITE 362	Digital Advertising Technology	3	<input type="checkbox"/>
ITE 340	E-Commerce Systems and Infrastructure (Pre: ITE 220)	3	<input type="checkbox"/>				

Data Science Track

Course Code	Course Name	Year	✓	Course Code	Course Name	Year	✓
ITE 351	Programming for Data Science (Pre: ITE 224)	3	<input type="checkbox"/>	ITE 354	Business Intelligence and Decision Modeling (Pre: ITE 224)	3	<input type="checkbox"/>
ITE 352	Artificial Intelligence and Machine Learning (Pre: ITE 224)	3	<input type="checkbox"/>	ITE 355	Data Warehousing and Data Mining (Pre: ITE 224)	3	<input type="checkbox"/>
ITE 353	Machine Learning Foundation (Pre: ITE 224)	3	<input type="checkbox"/>				

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Network and Security Track									
Course Code		Course Name	Year	<input checked="" type="checkbox"/>	Course Code		Course Name	Year	<input checked="" type="checkbox"/>
ITE	201	IT Service Desk & Incident Management	3	<input type="checkbox"/>	ITE	476	Network II (Pre: ITE475)	3	<input type="checkbox"/>
ITE	421	Information Assurance and Security II (Pre: ITE 420)	3	<input type="checkbox"/>	ITE	477	Window Server	3	<input type="checkbox"/>
ITE	451	AWS Cloud Foundations	3	<input type="checkbox"/>					

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.