

Course Overview: Technology Studies

General Core: All students take these courses in their first 2 years. Courses are mandatory unless otherwise indicated.

교필 - General Courses (13 Cr)		교필 Core7 - 7 Core competencies (16 Cr)	
Course Title	Cr	Course Title	Cr
Freshmen Seminar	2	Cross Cultural Communication	3
Career Development 1 (Intersession?)	2	Thinking Creatively and Logically	3
Year 2 Capstone	3	Ethics and Decision Making	2
Career Development 2 (Intersession?)	2	Thinking Critically	3
Year 4 Capstone	3	Global Issues Seminar	2
		Principles of Leadership	3

교필 - Foundations (6 Cr)		교필 - Innovation (6 Cr)	
Course Title	Cr	Course Title	Cr
Leadership and Teamwork: High Performance Collaboration	3	Introduction to Innovation	3
Introduction to Industry 4.0	3	Design Thinking	3

교필 - Communication (12 – 15 Cr) One track, based on English skills test			
Residency-Intensive English Program		OR	Academic Communication
Reading + Vocabulary	3		Reading and discussion: Topics in Technology and World Affairs
Writing + Grammar	3		Academic Composition
Listening + Speaking	3		Public Speaking and Presentation OR Introduction to Debate
Intensive English - Summer OR Winter intersession	3		Independent guided research and composition – Summer OR Winter intersession
Year 2 remedial (if fails testing)	3		

전필 - Technology Studies Major Mandatory (12 Cr)			
Foundations of Computer Science 1	3	Contemporary Internets: People, Data, Services, Things	3
Foundations of Computer Science 2	3	Introductory Programming	3

전선 - Technology Studies Major Electives Year 2 (Select 1, 2 Cr)			
Digital Media Content and Development	2	History of Technology	2
Digital Design and CAD	2	Problem Analysis and Technological Solution	2
Introduction to Linux	2		

교필 - Second Language (21 Cr)			
Korean	Chinese	Academic Communication	

교선 - Liberal Arts Electives (6 CR)					
Liberal Arts (Select 2)				Academic skill concentration (Fall, Select 1)	
Spring		Fall	2		2
Introduction to Psychology	2	Korean History (Ancient, modern, etc)	2	Advanced Research and Composition	2
Introduction to Sociology	2	Digital Gaming in Contemporary Society	2	Rhetoric and Argumentation	2
Introduction to Philosophy	2	Contemporary Korean Society	2	Multimedia and Presentation	2
Understanding Culture through World Literature	2	Modern Asian Regional History (Korea, Japan, China)	2	Interviewing and Qualitative Research	2
Culture, Myth, and Storytelling	2	Women's Studies		Quantitative Research Design	2
				Statistics	2

전필 - Technology Studies Major (Years 3 and 4)					
Core Courses (24 Cr)					
Computer Science	3	Data Analytics	3	Smart Manufacturing: Connectivity, autonomy, and production	3
Java	3	Cyber Security	3	Technology Foresight and Forecasting	3
Human Computer Interaction	3	Mathematics for Programming	3		

전선 - Technology Studies Electives					
Select 3 (2 Cr each)					
Do It Yourself Technology Culture	2	Industry 4.0 and Development	2		
Prototyping	2	Technology and Society	2		
User Psychology	2				

전필 - Concentration Courses (24 Cr) Students Choose One Track, 8 Courses					
Technology Management			Industry 4.0: Advanced technology (IoT, Augmented Reality, Cyber-security)		
Introduction to Management	3	Applied IoT	3		
Strategic Management	3	Data Communications and Networking	3		
Operations Management	3	Electrical Engineering 1: Analogue Circuits	3		
Global Leadership and Organizational Behavior	3	Smart Technology Design	3		
Strategic Technology Analysis	3	Electrical Engineering 2: Digital Electronics & Microcontrollers	3		
Human Resources Management	3	Advanced Programming	3		
Technology Entrepreneurship	3	Web Development	3		
Data Mining	3	Software Development	3		
Cyber-Security Management	3	Graphic System Development	3		
Project Management in Complex Environments	3	Virtual and Augmented Reality	3		
Technology Research and Development	3	IT Infrastructure Protection	3		
Technology Brand Management	3	IoT and Cyber Security	3		
Accounting and Management Technologies	3	Advanced Cyber Security	3		
Organization, Innovation, and Technology	3				

Industry 4.0: Advanced Automation (3D Printing, Robotics, Industrial Automation)		Industry 4.0: Advanced Intelligence (Big Data, Artificial Intelligence, Cloud Computing)	
Electrical Engineering 1: Analogue Circuits	3	Advanced Programming	3
Electrical Engineering 2: Digital Electronics & Microcontrollers	3	Algorithms	3
Information Systems Analysis and Development	3	Theories of Computation	3
Smart Factory Systems	3	Data Communications and Networking	3
Product Design and Fabrication	3	Analytics Programming	3
Robotics and Intelligent Systems	3	Advanced Data Science	3
Automatic Control Systems	3	Data Visualization and Analysis	3
Sensors and Input Data	3	Computer Architecture	3
Robotics Engineering	3	Principles of Artificial Intelligence	3
3D Modeling and CAD	3	Machine Learning	3
Mechanics and Application	3	Data Mining	3
Manufacturing Systems	3	Web Development	3
Additive Manufacturing	3	Cloud 1: Application and Architecture	3
Automated Manufacturing	3	Cloud 2: Security and Privacy	3