

Required Courses

Subject	Grade/Credits								total
	freshman		sophomore		junior		senior		
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	
Calculus (I) 、(II)	3	3							6
General Physics	3	3							6
Materials Science	3								3
Engineering Graphics	2								2
The Mechanical Technology	2								2
Computer Programming		3							3
Statics		2							2
Computer Aided Drawing		2							2
Mechanical Engineering Experiments		1							1
Engineering Mathematics			3	3					6
Circuit Theory			3						3
Dynamics			3						3
The Processes of Manufacturing			3						3
Experiments of Electric Circuits			1						1
Digital Logic Design			2						2
Labs of Digital Logic			1						1
Applied Electronics (I)				3					3
Mechanics of Materials				3					3
Experiment of Applied Electronics				1					1
Thermodynamics				3					3
Mechanisms					3				3
Automatic Control Engineering					3				3
Experiments of Automatic Control					1				1
Mechanical Engineering Design						3			3
Mechatronics Technology						1			1
Special Topics on Opto-Mechatronic Engineering						1	1		2
Special Topics on Automatic Engineering						1	1		2
Special Topics on Precision Machining and Manufacture						1	1		2

Selective courses

Subject	Grade/Credits								total
	freshman		sophomore		junior		senior		
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	
Computer-Aided Manufacturing			3						3
Chemistry			3						3
The Principle and Technology of Computerized Numerical Control Machine Tool				2					2
Signals and Systems				3					3
The Pinciple and Application of Fluid Control							3		3
Microprocessor				3					3
Engineering Mathematics (III)					3				3
Fluid Mechanics					3				3
Electromagnetism (I)					3				3
Electromagnetism (II)						3			3
Applied Electronics (II)					3				3
Vibration						3			3
Heat Transfer						3			3
Principles of Optics						3			3
The Principles and Application of Sensors							3		3
Programmable Logic Control							3		3
Semiconductor Devices and Physics							3		3
Microcomputer Interface Design							3		3
Machine Vision						3			3
Optoelectronic sensors and their applications							3		3
Computer 3D Modeling Graphics							3		3
Microcomputer Control							3		3
CAE Design Automation and Optimization							3		3
Factory Practical Training							3		3
The Introduction of Automated Production							2		2