

TEMASEK POLYTECHNIC DIPLOMA IN ELECTRONICS	WICHITA STATE UNIVERSITY
<b>Level 1 Common Subjects</b>	
EEE 1003: Digital Fundamentals 1	CS 194: Introduction to Digital Design
EEE 1001: Circuit Analysis	Engineering elective
EMA 1001: Engineering Mathematics 1	MATH 112: Precalculus Mathematics
EED 1001: Electronic Prototyping	Free elective
ECS 1004: Introduction to Effective Communication	ENGL 102: College English II *must validate with English Exit Exam 102
ECS 1003: Writing and Oral Presentation	ENGL 101: College English I *must validate with English Exit Exam 101
GCD 1001: Applied Principles for Effective Living 1	Free elective
EEE 1004: Digital Fundamentals 2	Free elective
EEE 1002: Electronic Devices and Circuits	EE 492: Electronic Circuits I
EMA 1002: Engineering Mathematics 2	MATH 242: Calculus I
ESE 1005: Computer Programming	Free elective
EED 1002: Printed Circuit Board Design	Free elective
EPL 1003: Problem-Solving and Process Skills	Free elective
<b>Level 2 and 3 Cluster Elective - Common Subjects</b>	
EMC 2001: Microcontroller Technology	Free elective
EEE 2001: Integrated Circuit Applications	Engineering elective
ECC 1002: Networking Fundamentals	CS 464: Computer Networks
ETW 2001: Telecommunication Principles	Free elective
EMA 2001: Engineering Mathematics 3	MATH 555: Differential Equations I
GCD 1002: Applied Principles for Effective Living 2	Free elective
ECT 2001: Circuits and Control Systems	EE 684: Introductory Control Systems Concepts
EEE 3004: Power Electronics and Drives	Engineering elective
EEE 3001: Advanced Electronics	Engineering elective
ECS 2003: Organisational Communication	Under evaluation
EMP 3001: Major Project	Free elective
EMC 3002: Embedded Control and Applications	Free elective
ECS 3002: Career Communication	ENGL 210: Composition: Business, Professional and Technical Writing
GCD 1003: Applied Principles for Effective Living 3	Free elective
<b>Level 2 and 3 Cluster Elective - Networking</b>	
ECC 2007: Networking Infrastructure	Free elective
ECC 3001: Internetworking Technologies	MIS 611: Topics in Computer Networking
ECC 3008: Network Security	MIS elective
ECC 2011: Network Security Fundamentals	Free elective
<b>Level 2 and 3 Cluster Elective - Photonics</b>	
EPH 3001: Principles of Photonics	Free elective
EPH 3002: Optical Communications	Engineering elective

EPH 3003: Optical Devices	Free elective
<b>Level 2 and 3 Cluster Elective - Robotics</b>	
EMC 3004: Data Acquisition Systems	Free elective
ECT 3003: Robotic Control Systems	Engineering elective
ECT 3002: Analytical Robotics	Engineering elective
<b>Level 2 and 3 Cluster Elective - Mobile Computing</b>	
ESE 3006: ASP .NET Web Programming	Under evaluation
ETW 2005: Wireless Technology	Free elective
ESE 2006: Mobile Computing Applications	Engineering elective
<b>Level 2 and 3 Aerospace Electronics Option</b>	
EMC 2001: Microcontroller Technology	Free elective
EEE 2001: Integrated Circuit Applications	Engineering elective
ECC 1002: Networking Fundamentals	CS 464: Computer Networks
ETW 2001: Telecommunication Principles	Free elective
EMA 2001: Engineering Mathematics 3	MATH 555: Differential Equations I
EMP 3001: Major Project	Free elective
EAE 1004: Fundamentals of Aeronautical Science	Free elective
EAE 3007: Propulsion and Instrument Systems	Free elective
EAE 3006: Radio Fundamentals and Navigation Systems	Free elective
ECS 2003: Organisational Communication	Under evaluation
EAE 1002: Electrical Fundamentals <b>AND</b> EEE 1001: Circuit Analysis	EE 282: Circuits I
EAE 1003: Electronic Fundamentals and Systems	Free elective
EAE 2002: Aviation Legislation and Human Factors	Free elective
EAE 3009: Basic Aerodynamics	AE 324: Fundamentals of Atmospheric Flight
ECS 3002: Career Communication	ENGL 210: Composition: Business, Professional and Technical Writing
<b>Level 2 and 3 Engineering Business Option</b>	
ETW 1001: Telecommunications and Systems	Free elective
ECC 1002: Networking Fundamentals	CS 464: Computer Networks
EBZ 1001: Business Fundamentals	Business elective
EBZ 1002: Principles of Economics	ECON 201: Principles of Macroeconomics
EBZ 2006: Service Quality and Management	Business elective
ECS 2003: Organisational Communication	Under evaluation
ECC 1003: Web Design and Development	MIS 610: Dynamic Web Programming
ESZ 1002: Quantitative Methods	ECON 231: Introductory Business Statistics <b>AND</b> ECON 232: Statistical Software Applications for Business
EBM 3003: Financial Management and Forecasting	FIN 340: Financial Management I

EBZ 2005: Marketing Concepts and Strategies	MKT 300: Marketing
ECS 2002: Engineering Business Communication	Business elective
EMP 3001: Major Project	Free elective
EPZ 3001: Customer Relationship Management	Business elective
EBZ 2002: Marketing Intelligence	MKT 403: Marketing Research
EBZ 3008: Technopreneurship	Business elective
ECS 3002: Career Communication	ENGL 210: Composition: Business, Professional and Technical Writing

*Last updated: October 23, 2013*