

WMU Essential Studies GUIDE FOR ENGINEERING & APPLIED SCIENCES MAJORS

FOUNDATIONS (Level I)

<u>Writing*:</u> All majors – IEE 1020	<u>Inquiry and Engagement:</u> OPEN for all majors
<u>Oral and Digital Communications:</u> AE – AE 2610 CE, EE – ECE 2210 CHEG, CEN, CIV, EDT, IEE, MFT, UEM, PPRP – IEE 2610 CS – COM 1040 ME – ME 2615 GPS – OPEN CYS – OPEN	<u>Quantitative Literacy:</u> All Majors – MATH 1180, MATH 1220/1700

***Note:** Writing in Level I is a prerequisite, and must be taken prior to, Societies and Cultures in Level II.

EXPLORATION AND DISCOVERY (Level II)

<u>Societies and Cultures*</u> OPEN for all majors	<u>Personal Wellness</u> OPEN for all majors
<u>World Language and Culture</u> OPEN for all majors	<u>Science and Technology</u> AE, ME – ME 2320 CIV, CE, CEN, EE, IEE – IEE 3100 EDT, MFT, UEM – EDMM 1500 GPS – STAT 2160 CHEG, PPRP – CHEG 2611 CS – PHIL 3160 CYS – OPEN
<u>Scientific Literacy with Lab</u> All BSE Majors – PHYS 2050/2060 CS – GEOS 1300 EDT, MFT, UEM – PHYS 1130/1140 GPS – OPEN CYS – OPEN	<u>Artistic Theory and Practice</u> OPEN for all majors

***Note:** Societies and Cultures in Level II is a prerequisite, and must be taken prior to, Local and National Perspectives and Global Perspectives in Level III.

CONNECTIONS (Level III)

<u>Local and National Perspectives</u>	<u>Global Perspectives</u>
AE – AE 4800 CE, EE – ECE 4820 CEN, CIV – CCE 4850 CHEG – CHEG 4870 CS – CS 4910 EDT, MFT, UEM – EDMM 4910 GPS – GPS 4850 IEE – IEE 4190 ME – ME 4800 PPRP – PAPR 4870 CYS – OPEN	OPEN for all majors

Major Abbreviations & Degree Type

Aerospace Engineering	AE (BSE)	Engineering Design Technology	EDT (BS)
Computer Engineering	CE (BSE)	Engineering Mgmt. Technology	UEM (BS)
Construction Engineering	CEN (BSE)	Graphic & Printing Sciences	GPS (BS)
Chemical Engineering	CHEG (BSE)	Industrial & Entrepreneurial Engr.	IEE (BSE)
Civil Engineering	CIV (BSE)	Mechanical Engineering	ME (BSE)
Computer Science	CS (BS)	Manufacturing Engr. Technology	MFT (BS)
Cybersecurity	CYS (BS)	Paper Engineering	PPRP (BSE)
Electrical Engineering	EE (BSE)		