Electrical Engineering at Michigan Tech

Bachelor of Science in Electrical Engineering 2024-2025

Environmental Applications Concentration

SAMPLE PLAN
Caculus-ready students

Sem. 1- Fall	Sem. 2 - Spring	Sem. 3 - Fall	Sem 4 - Spring	Sem. 5 - Fall	Sem. 6 - Spring	Sem. 7 - Fall	Sem. 8 - Spring
Calculus Ready Students	ENT1960(1)	ENT2950(1)	ENT2960(1)	Decide: Enterprise or Senior Design or EPS 5) ENT3950(1)	ENT3960(1)	ENT4950(2) OR EE4901 (2) EE Design 1 *Fall only*	ENT4960(2) ENT4950 & ENT4960: take in same enterprise & consecutive semesters. EE4910 (2) EE Design 2 *Spring only*
MA1160/61 (4) Calculus I	MA2160 (4) Calculus II	*MA2321(2) Accelerated. Linear Alg TrackA	MA3160 (4) Multi-Variable Calculus	EE3131 (4) Electronics and Lab	EE3901 (2) Design Fund.	5) EE3131 EE3901	
(C)	(C)	Pre-req / Co-register			UN1015 EE3131(C)	5)	
ENG1101(3) Engrg Analysis	ENG1102 (3) MODEL & DESGN	Track B *MA3521(2) Accel. Diff. Eq.	EE2112 (4) Electric Circuits II & Lab	EE3160 (3) Signals & Systems	EE3171 (4) Microcontroller Appls and Lab	4) EE_____ EE Elective (3)	4) EE_____ EE Elective (3)
Spatial Visualization Test			(C)		CS1111 o rCS1121 EE2174		
CH1150 (3) Univ Chem I		EE2111 (3) Electric Circuits I	*EE3120 (3) Electric Energy Systems	EE3140 (3) Electro-magnetics	EE3180 (3) Intro. Probability & Random Sig. Anal.		EE _____ EE Elective (3)
			Remote Sensing choice 2 may be begin in SO year. Postpone EE3120, take EE2190		EE3160		
CH1151 (1) Univ Chem I Lab	PH1100 (1) Physics I Lab	PH1200 (1) Physics II Lab		*Choose Remote Sensing: Seq 1 or Seq 2:*	1 _____ Free Electives (2)	1 EE4252(4)	1 GE4250(3)
	(C)	(C)			MA3521/20 PH2200		
	MA1160/61 PH1100 (c) **PH2100 (3) Physics I	MA2160 PH2100 PH2200 (3) Univ. Physics 2		MA2160 CH1150/51 CEE3501 (3) Env Engg Fund	2 EE2190 (3)	2 EE3190(3)	2 _____ Free Electives(3)
					MA2160 CH1150/51 CEE3502 (3) Monitoring & measurement	CEE_____ **** Env Qual elec(3)	CEE_____ **** Env Qual elec(3)
	**PH2110 (2) Physics 1 Workshop REQUIRED with CD or D in Calculus I	CS1111 (3) Intro C/C++ Programming *Fall only*	EE2174(4) Digital Logic & Lab				
UN1015 (3) Composition	_____ (3) Social Resp/ Ethical Reasoning	_____ (3) Critical/Creative Thinking core					
	UN1025 (3) Global Issues						
			Co-Curr. Unit (.5)	_____(3) HASS HU,FA	_____(3) HASS Social Behavioral Sci	_____(3) HASS Comm/ Composition	_____(3) HASS ANY
	Co-Curr. Unit (.5)	Co-Curr. Unit (.5)	Co-Curr. Unit (.5)	Co-Curr. Unit (.5)	Co-Curr. Unit (.5)		
14	17.5	17.5	16	16.5 / 17.5	15.5 / 16.5	17/18	17

NOTE: Keep Friday am or pm free for CEE3502 lab

Choose at least 6 credits of 3000-4999 HASS

Take 14cr min.

May take MA2320, delay MA3520&EE2112

(C) → Concurrent prerequisite (a prereq. that can be taken concurrently)

Total: 130
(132 w/ Enterprise)
plus 3 units co-curricular activities

Undergraduate advisor:
Kailee Laplander: EERC 131 kllaplan@mtu.edu