

University of Hawai'i at Mānoa College of Engineering Program Sheet 2017-2018

Bachelor of Science (BS) in Electrical Engineering

Admissions: Freshmen = Open / Transfer = Min. Criteria Process: Declaration Min. Total Credits: 123 (123 in core & major + 0 in electives)

HIM C IFI I' C P '	D D
UHM General Education Core Requirements	Degree Requirements
Foundations	Bachelor of Science Requirements
☐ FW ENG 100, 100A, 190, ESL 100, or AMST 111	Calculus I & II
□ FS MATH 241, 242	General Chemistry I with lab & II
$\Box \operatorname{FG}(A/B/C)$	General Physics I & II with labs
$\square \operatorname{FG}(A/B/C)$	
	College Requirements
Diversification	
□ DA COMG 251	Admission Requirements for Transfer Students
DH/DL	• 3.0 cumulative GPA
☐ DB not required for EE students.	• Completion of the following courses:
□ DP CHEM 161, 162, PHYS 170, 272	○ ENG 100*FW
DY CHEM 161L, 162L, PHYS 170L, 272L	o MATH 241* ^{FS}
DS ECON 120, 130, 131	o MATH 242
' '	○ CHEM 161* ^{DP} / 161L* ^{DY}
□ DS	○ CHEM 162* ^{DP}
	○ PHYS 170* ^{DP} / 170L* ^{DY}
* See degree, college and major requirements for courses that	
can also fulfill these.	Math Requirements ☐ MATH 241*FS
UHM Graduation Requirements	
	☐ MATH 242
Focus	☐ MATH 243
□ Н	☐ MATH 244
□ E (300+)	
□ O (300+)	Natural Sciences Requirements ☐ CHEM 161*DP / ☐ 161L*DY
	□ CHEM 161* ^{DF} / □ 161L* ^{DT}
□ W	CHEM 162*DP
□ W	□ PHYS 170* ^{DP} / □ 170L* ^{DY}
□ W	□ PHYS 272* ^{DP} / □ 272L* ^{DY}
□ W (300+)	
□ W (300+)	Grade Point Average
	• 2.0 GPA for all upper division (300+) mathematics,
Hawaiian / Second Language	sciences, and engineering courses.
The Hawaiian or Second Language requirement is not	
required for students admitted to the College of	
Engineering.	
3 1 3	
Credit Minimums	
120 total applicable	
30 in residence at UHM	
45 upper division (300+ level) credits	
Grade Point Average	

This program sheet was prepared to provide information and does not constitute a contract. See back for major requirements.

Meet regularly with your major advisor. Advising is mandatory every semester for Engineering students.

2.0 cumulative or higher (Note: Other GPAs may be

required)

Good academic standing

Major Requirements for BS in F	Electrical Engineering		
Admission: Open			
Application: Required for students who do not apply straight into the program.			
Min. major credits: 71			
Min. exit GPA: 2.0 overall and 2.0 in upper division technical coursework.			
Enrollment in EE courses requires	a C (not C-) grade or better, in all prerequis	ites.	
Requirements			
Electrical Engineering Core Cou	urses (38 credits)		
☐ EE 110 or EE 160			
□ EE 211			
□ EE 213			
□ EE 260			
□ EE 315			
□ EE 323 / □ 323L			
□ EE 324			
□ EE 342			
□ EE 371			
□ EE 495			
□ PHYS 274			
□ MATH 307			
Electrical Engineering Projects (6 credits) ☐ EE 296 (or ENGR 296) (Sophomore standing)			
☐ EE 290 (of ENGR 290)			
□ EE 496	(Junior Standing)		
■ EE 490			
Flectrical Engineering Major Tu	rack (17 credits; choose one track below)		
	ch includes all courses in Group I and remain	ing courses from Group II	
17 credits in one major track, wine	Group I (11 credits)	Group II (6 credits)	
	Group I (II creates)	EE 422/422L, 423, 425, 427	
	□ EE 326 / □ 326L	EE 328/328L, 426	
☐ Electro-Physics Track	□ EE 327	EE 470, 471, 473, 474, 475, 477	
j	□ EE 372 / □ 372L	EE 435, 438	
		EE 480	
	□ FF 242 / □ 242I	EE 344, 442, 446, 449	
D. Cristonia Trools	□ EE 343 / □ 343L □ EE 351 / □ 351L	EE 452, 453	
☐ Systems Track	□ EE 415	EE 416, 417, 445	
	G EE 413	EE 435	
Electrical Engineering Technica	l Electives (7 credits)		
7 additional credits from track lists, including 3 credits outside the major track and a 1 credit laboratory:			
☐ Technical Elective			
☐ Technical Elective			
☐ Technical Elective Lab			
List of Computer Engineering Technical Electives: EE 205, 361/361L, 362, 366, 367/367L, 406, 461, 467, 468, 469			
	nnical Elective, but the track designation is a	letermined on a case-by-case basis.	
☐ Engineering Breadth (3 credits; one of the following options)			
• CEE 270, ME 311, or a 300+ level course from CEE, ME, OE, or BE.			
• 300+ physical, biological, or computer science courses (with department's undergraduate curriculum committee			
approval).			
approvai).			
	Notes		
College of Engineering: Holmes 250;	Notes (808) 956-8404; info@eng.hawaii.edu; www.engbbry, PhD; Holmes 240A; (808) 956-8404; tep@		