

CURRICULUM CHECK SHEET  
August 2020

The program of courses listed below satisfies the ABET accreditation criteria of 32 credits of mathematics and basic sciences, and 48 credits of engineering sciences and engineering design. Any deviations must be approved by the student's advisor, department chair and dean. The University General Education Core & graduation requirements for Engineering are included. All lower division CEE courses must be completed before taking upper division CEE courses, except CEE 370 and 370L.

ALL COURSES MUST BE TAKEN FOR LETTER (A-F) GRADES

LOWER DIVISION											
FRESHMAN						SOPHOMORE					
Eng 100 (FW)	3		Math 242	4		CEE 270	3		CEE 271 or ME 271	3	
Math 241 (FQ)	4		Phys 170 (DP)	4		Math 243	3		Math 244	3	
Chem 161 (DP)	3		Phys 170L (DY)	1		Phys 272 (DP)	3		CEE 370	3	
Chem 161L (DY)	1		Chem 162 (DP)	3		Phys 272L (DY)	1		CEE 370L	1	
FG	3		EE160, 110 or ICS 111	3/4		FG	3		BSE (DB)	3	
						DH or DL	3		COMG 251 (DA)	3	
H Focus (1)			E Focus (1)			O Focus (1)			W Focus (5)		

UPPER DIVISION											
JUNIOR						SENIOR					
CEE 305	3		CEE 330	4		CEE 431	3		CEE 421	3	
CEE 320	4		CEE 355	4		CEE 461, 462 or 464	3		CEE 455	3	
CEE 361	3		CEE 375	3		CEE 471 or 472	3		CEE 490	3	
Econ 120, 130 or 131 (DS)	3		CEE 381	3		CEE 485 or 486	3/4		TES	3	
Math 302 or EARTH312	3		DS	3		CEE 489B	2		TE	3	
						CEE 489C	1				

ALTERNATIVE SENIOR YEAR TRACKS											
STRUCTURES*						SUSTAINABILITY AND INNOVATION*					
CEE 471 or 472	3		CEE 421	3		CEE 431	3		CEE 440	3	
CEE 484	3		CEE 455	3		CEE 462 or 464	3		TES	3	
CEE 485	4		CEE 486	3		CEE 444	3		CEE 441	3	
SME	3		CEE 490	3		CEE 449 or 499*	3		CEE 499* or TE*	3	
CEE 489B	2		TES	3		CEE 489B	2		CEE 490	3	
CEE 489C	1					CEE 489C	1				

\* Students who want to pursue a specialty track should ask the department office to assign them an advisor from the specialty area.

**ELECTIVES**

BSE: Biological Science Elective

BE 120; Micr 130; Biol 171; Zool 101  
The associated laboratories are not required.  
Students interested in the environmental area are encouraged to take BE 120 or Micr 130 for the BSE.

TE: Technical Elective

Any 400 or 600 level CEE course.  
May include a maximum of one course from  
EE 211; ME 311; 374; ORE 411; EARTH 454

TES: Technical Elective with focus on Sustainability

BE 410; CEE 440; CEE 441; CEE 444; GEOG 410;  
ME 453; OCN 435

SME: Structural Math Elective

ME 360; Phys 305; Math 307; Math 311

**NOTES**

1. Please refer to General Education Core Requirements in UH Mānoa Catalog for Diversification (DH, DL, DS) and FG Foundation Courses.
2. Math 251/252/253 may be substituted for Math 241-244 above.
3. Chem 181/181L or Chem 171/171L may be substituted for Chem 161/161L and Chem 162 above.
4. Writing Intensive (W) required - 5 courses (minimum of 2 in upper division).
5. One course each required for Hawaiian, Asian & Pacific Issues (H), Oral Communication (O) and Contemporary Ethical Issues (E).
6. C' or better required for passing Phys 170 and CEE 270.

APPROVED FOR GRADUATION: Initial: \_\_\_\_\_

Date: \_\_\_\_\_