Required UMaine Undergraduate CIE Degree Courses in Which an Engineering for Change (E4C) Component Can be Introduced

Course Number	Course Name	When Offered	E4C Options for HVSC credits	E4C Student Portfolio Content ²	Introduce E4C Module within Existing Course ³	New E4C Course
CIE 100	Intro to Civil and Env Engineering	Fr1			х	
HVSC Elective		Fr1	х			
CIE 101	Civil Engineering Graphics	Fr2		x	х	
CMJ 103	Fundamentals of Public Communication	So1		x		
Science Elective		So2				x ⁴
CIE 225	Transportation Engineering	So2		x	Х	
HVSC Elective		So2	х			
ENG 320	Technical Communication for Engineers	Ju1		x		
HVSC Elective		Ju2	х			
CIE 394	Engineering Practice Co-op	Ju or Se		x		
CIE 412	Engineering Decisions	Se1		x	х	
HVSC Elective		Se1	х			
HVSC Elective		Se2	х			
CIE 42x - 45x	CIE Concentration areas (multi-course) ¹	Se1 and Se2		x	х	
CIE 411	Capstone	Se1 and Se2		x		
CIE 498	Technical Elective Selected Studies	Se1 or Se2				x ⁵

1. Concentrations require 3 courses at 400+ level within one of four principal practice areas: Transportation; Structural; Environmental; Water Resources

2. https://eddesignlab.org; completion of badges in HVSC credits, Portfolio content and E4C modules within existing courses results in transcript Credential

3. To be developed for CIE faculty

4. Methods in Community-Oriented Field Science; can be offered outside of CIE

5. Socio-Technical Mapping and the Built Environment; can be offered outside of CIE

Relevant UMaine Undergraduate Courses for Engineering for Change (E4C) Credential - HVSC options

			Meets General Education Requirements						
Course	Course Title	w	S	С	P	Α	E	WI	Relevance
LST 101	Introduction to Labor Studies		х						1
WGS 101	Introduction to Women's, Gender, and Sexuality Studies		х				х		
NAS 102	Introduction to Wabanaki Culture, History and Contemporary Issues		х	х					
SOC 201	Social Inequality		х	х					
PAX 201	Introduction to Peace and Reconciliation Studies		х	х					
LST 201	Work and Labor in a Global Economy		х						
FAS 270	Immigration -Yesterday and Today		х	х			х	х	
ANT 270	Environmental Justice Movements in the United States		х	х					1
PAX 290	Non-Violence: Perceptions and Perspectives			х			х		
DIS 300	Disability: Interaction of Human Diversity and Global Environment			х	x				-
WGS 303	Social Movements, Media and Change		х	х					
SOC 309	Sociology of Gender		х	х					
SOC 338	Race and Ethnicity Transnational Feminisms		х	х					1
WGS 340				x					
CHF 351	Human Sexuality		х	~	x		X X X		-
ECO 381	Sustainability Science, Policy, and Action								
DIS 400	Disability as Diversity			х					
PAX 401	Women Social Activists: Warriors for Peace and Justice	Warriors for Peace and Justice		х					
NUR 415	Socio-Cultural Issues in Health		x x	x					-
ANT 430	Who Owns Native Cultures?		x	x					-
PHI 432	Environmental Justice		x	~	x		x	x	-
DIS 450	Disability: Population - Environment Diversity		~		x		x	x	-
NAS 451	Native American Cultures and Identities			х					-
HTY 415	African-American History								
LDR POS 220	Leadership and Social Movements								-
ENG 243	Topics in Multicultural Literature	х		х			х		
EES 312	Energy, Law & Environment: Contending with Climate Change								_
HTY 330	Robber Barons, Reformers and Radicals	х							
EES 351	Energy, Wealth, and Power: a Biophysical Systems View of Nature and Society				х				2
ECO 381	Sustainable Development Principles and Policy				x		х		-
ANT 410	Human Dimensions of Climate Change				x				
CMJ 466	Narrative, Performance, and Social Change					х		x	-
CMJ 107	Communication and the Environment	[x		x		1	[
FAS 120	People, Places and Pasts		~		x				-
PHI 132	Life, Technology and Evolution				x				-
ECO 180	Citizens, Energy & Sustainability		x		x				-
CIE 210	Sustainability in Engineering		~		x		x		-
ANT 225	Climate Change, Societies and Cultures				x		~		-
ANT 250	Conservation Anthropology: Socio-Cultural Dimension of Environmental Issues			x	x				-
GEE 250	Sustainable Solutions in the Developing World			x	x				- 3
HTY 251	Technology and Society from Ancient Times till the Present	x	x	~	^				1
GEO HTY 265	The Power of Maps		~ ~	x		x			
ENG 320	Technical Communication for Engineering		x	~		~		x	
HTY 365	The American Immigrant Experience		^		x			x	
CET 412	Sustainable Population and Environmental Design and Construction				x			^	
EET 484	Engineering Economics		x		^		x		
LL1 404		1	X				X		

1 = Relevant as described

2 = Potentially significantly relevant; could require additional content or specific selection of readings
3 = Generally relevant; would require additional specific focus on power structures in culture and social inequality within the U.S.

W = Western Cultural Tradition

S = Social Context and Institutions

C = Cultural Diversity and International Perspectives

P = Population and the Environment

A = Artistic and Creative Expression

E = Ethics

WI = Writing Intensive