

**Required UMaine Undergraduate CIE Degree Courses in Which a Social Justice Component Can be Threaded into Coursework and/or a New Course Created**

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

1. Students must take courses in 3 of the 5 CIE practice areas; concentrations require 3 courses at 400+ level within one of four principal practice areas

2. <https://eddesignlab.org>; completion of badges in HVSC credits, Portfolio content and SJ modules within existing courses results in Micro-Credential for transcript

3. In development; Practices areas for CIE Concentration: Transportation; Structural; Environmental; Water Resources

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

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

Relevant UMaine Undergraduate Courses for a Social Justice Engineering Micro-Credential - HVSC options

Course	Course Title	Meets General Education Requirements							Relevance
		W	S	C	P	A	E	WI	
NAS 102	Introduction to Wabanaki Culture, History and Contemporary Issues		x	x					1
SOC 201	Social Inequality		x	x					
ANT 270	Environmental Justice Movements in the United States		x	x					
ECO 381	Sustainability Science, Policy, and Action				x		x		
ANT 430	Who Owns Native Cultures?		x	x					
PHI 432	Environmental Justice		x		x		x	x	
NAS 451	Native American Cultures and Identities			x					
NUR 415	Socio-Cultural Issues in Health		x	x					
ANT 410	Human Dimensions of Climate Change				x				2
CMJ 466	Narrative, Performance, and Social Change					x		x	
ECO 381	Sustainable Development Principles and Policy				x		x		
EES 312	Energy, Law & Environment: Contending with Climate Change								
EES 351	Energy, Wealth, and Power: a Biophysical Systems View of Nature and Society				x				
ENG 243	Topics in Multicultural Literature	x		x			x		
ANT 225	Climate Change, Societies and Cultures				x				3
GEO   HTY 265	The Power of Maps			x		x			
CIE 210	Sustainability in Engineering				x		x		
CMJ 107	Communication and the Environment		x		x				
ECO 180	Citizens, Energy & Sustainability		x		x				
ENG 320	Technical Communication for Engineering		x					x	
EET 484	Engineering Economics		x				x		
PHI 132	Life, Technology and Evolution				x				
GEE 250	Sustainable Solutions in the Developing World			x	x				
CET 412	Sustainable Population and Environmental Design and Construction				x				
ERS 121	Humans and Global Change								4
ERS 201	Global Environmental Change								
ANT 250	Conservation Anthropology: Socio-Cultural Dimension of Environmental Issues								
PHI 232	Environmental Ethics								
SFR 222	Environmental Communication Skills								

1 = Yes; 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 inequity within the U.S.

4 = No; scope too broad in time, space or focus area

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