



DEPARTMENT OF COMPUTER ENGINEERING

FRUGAL INNOVATION
CERTIFICATE CHECKLIST

School of Engineering

STUDENT NAME _____ **SCU ID#** _____

REQUIRED COURSES (8 UNITS)

Course #	Title	Term Taken	Grade	Units	Units Taken
ENGR 336	Engineering for the Developing World			2	
ENGR 338	Mobile Applications & Instrumentation for Emerging Markets			2	
ENGR 340	Distributed & Renewable Energy for the Developing Word			2	
ENGR 341	Innovation Design & Spirituality			2	

ELECTIVE GROUP A (4 UNITS)

ENGR 273	Sustainable Energy & Ethics			2	
ENGR 304	Building Global Teams			2	
ENGR 342	3D Printing Technology & Society			2	
ENGR 349	Special Topics in Frugal Engineering			2	

ELECTIVE GROUP (4 UNITS)

CENG 219	Designing for Sustainable Construction			4	
COEN 389	Energy Efficient Computing			2	
ELEN 280/ MECH 287	Introduction to Alternative Energy Systems			2	
ELEN 288/ COEN 282	Energy Management Systems			2	
ENGR 302	Managing in the Multicultural Environment			2	
ENGR 334	Energy, Climate Change and Social Justice			2	

G.P.A.GRE test requirement for admission to the MSCE degree program

GRE required

GRE waived

Chair's Signature **Date** _____