## ENRG3310: Introduction to Energy and Sustainability

Midterm I

Prof. Ognjen Š. Miljanić February 14, 2017

Name:		Student ID Number:
Last	First	

Read directions very carefully. Write your answer legibly in the designated spaces. Total number of points is 200.

1. Give an example of an action that expends (a) 1 Joule of energy, (b) 3,000 Joules of energy, (c) 1 kWh of energy, and (d) 500 kWh of energy. Support your answers with simple calculations.

40 points

2. Estimate daily energy consumption (in kWh) of a small two-person office at UH. You will need to look up power ratings of typical appliances, estimate which appliances are present and how long are they typically running per day. Ignore air-conditioning for the time being.

40 points

3.	What countries were the three biggest consumers of oil (in absolute terms) in 1970 and 2015 their per capita productions in those specific years? Cite your sources.	Calculate 30 points
4	MATERIA MONTO	
4.	What is YOUR most current one-sentence definition of sustainability?	10 points

5.	<u> </u>		
	consumption changes between 1965 and 2015. Then do the same for natural gas.	30 points	
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	his in separately.	50 points	