Syllabus MS/ME 535 Green Manufacturing

The course aims to provide societal engineers the skill set needed to understand the relationship between materials selection, processing and manufacturing options, product design and its use, and various end of life strategies that impact energy use, available resources, and the environment. Being able to analyze this complicated interaction is extremely important and will have a direct impact on the future of our society. With the gigantic scale of our current and future materials and energy needs, it is of paramount importance that we effectively manage our resources, make proper material and process selection choices, develop, and choose our energy sources, and pick the right end-of-life option to ensure a sustainable future. After completing this course, you will be able to perform eco-audit for a product life cycle and determine its environmental impact.

Text: Materials and the Environment, 2nd Edition
Eco-informed Material Choice

Author: Michael Ashby
Publisher: Butterworth-Heinemann for Elsevier
Print Book ISBN :9780123859716
eBook ISBN :9780123859723

Please bring your laptop to all classes. You will need to access ANSYS GRANTA Edu Pack software (Please try and get access to the software ASAP)

Access instructions:

You can access ANSYS GRANTA Edu Pack via Citrix, without installing any software on your computers. This will work for those running MacOS, as well. Instructions on installing and accessing this app are at: http://www.bu.edu/engit/knowledge-base/citrix/citrix-how-to/

Instructions on accessing this network share: http://www.bu.edu/engit/knowledge-base/mountingengnas/

The software is also available on the computers in ECL, EPIC, and Ingalls

If you have any difficulty reach out directly to Engineering IT: enghelp@bu.edu | 617-353-5303