

ChBE 4803B/8803B: Chemical Engineering in Nanoscale Systems: Syllabus

Date	Topic
<i>Aug 21, Aug 28</i>	Course Overview and Introduction to Nanoscience & Nanotechnology
<i>Aug 30, Sep 4, Sep 6</i>	Biological and Bio-inspired Nano “Building Blocks”: Nanopores and Nanotubes
<i>Sep 11, Sep 13, Sep 18</i>	Nano “Building Blocks”: Synthetic Nanotubes
<i>Sep 20, Sep 25</i>	Nanoparticles for Heat Transport Applications: Nanofluids
<i>Sep 27, Oct 2, Oct 4</i> <i>HW #1 due Sep 27</i>	Nanoparticles and Nanostructured Materials for Catalysis
<i>Oct 11, Oct 16, Oct 18, Oct 23</i>	Directed Assembly of Nanostructures: Synthetic Materials and Biomineralization
<i>Oct 25, Oct 30, Nov 1</i> <i>HW #2 due Nov 1</i>	Nanostructured and Nanocomposite Thin Films
<i>Nov 13</i>	Building Organic Nanostructures from Polymers
<i>Nov 15</i>	Building and Operating Nanomachines
<i>Nov 20</i> <i>HW #3 due Nov 20</i>	Nanotechnology for the Energy Future
<i>Nov 27, Nov 29, Dec 4, Dec 6</i>	Nanosystem Design Term Project Presentations and Discussion: Nanoscale Propulsion System

No class due to conference travel: *Aug 23, Nov 6, Nov 8*

No class due to GT holiday: *Oct 9, Nov 22*