

**Date Description**

1/9/06	Introduction to biofuels	Read Chapter 1-Basics of Production
1/16/06	Field trip: Piedmont Biofuels Coop (4783 Moncure Pittsboro Rd, Moncure)	Read Chapter 2- Basics Organic Chemistry
1/23/06	Lab 1: Understanding Biodiesel chemistry (batches with virgin oil)	Read Collaborative Tutorial- www.biodieselcommunity.org
1/30/06	Lab 2: titrations & mini batches with used oil	Lab Exercise 1
2/6/06	No class: NBB Conference	Read Chapter 7 Pretreatment of High FFA
2/13/06	Lab 3: two stage	Read Chapter 3 & quality control on tutorial page, Lab exercise 2
2/20/06	Lab 4: quality control testing	Read Chapter 4; 5&6 optional
2/27/06	Biodiesel production technology & mobile processor tour	Lab exercise 3
3/6/06	Biodiesel reactor building night	Read Chapter 10
3/13/06	Field trip: T.S. Design (2053 Willow Springs Ln, Burlington)	Read chapter 15 & diesel handout
3/20/06	Diesel engine technology	
3/27/06	Introduction to SVO conversion systems & panel Q & A session	
4/3/06	Biodiesel and SVO regulatory issues	
4/10/06	Guest speaker: Tim Turner on ethanol production	
4/17/06	No class: Easter holiday	Read Chapter 12 &13
4/24/06	Biofuels and Agriculture	
5/1/06	Last night of class & potluck supper	

Course text: <http://www.nrel.gov/docs/fy04osti/36244.pdf>  
Biodiesel Production  
Technology compiled by NREL