COURSES FOR BIOCHEG MINOR IN FALL 2007
FOR QUESTIONS, SEE DR. LENHOFF (RM 226)

CHEG 621 Metabolic Engineering MW 3-4:30 PM
Focuses on design and control of cellular metabolism and includes analysis of metabolic function
using systems engineering and molecular biology tools. Goals are to learn computational
approaches for analyzing metabolic behavior, and experimental techniques to measure cellular
components, metabolites, proteins and nucleic acids. PREREQ: CHEM527 or CHEM641

CIEG 636 Biological Aspects of Environmental Engineering, TuR 9:30-10:45 AM
Presents fundamental molecular biological concepts which pertain to cellular function in the
environment and in engineered environmental treatment systems. Briefly reviews elementary
organic chemical classifications.

CHEM 667-011, Zhuang, Biochemistry of Nucleic Acids, TuTh, 2-3:15 pm

BISC 604 Nucleic Acids Laboratory, TR 2-6 pm, 4 credits
Prereq: Bisc 401: Introduces techniques of gene cloning, amplification, manipulation, &
expression.

BISC 645 Bacterial Evolution, TR 12:30-1:45 pm, 3 credits
Prereq: Bisc 300: Explores the development of the bacterial diversity beginning with current
theories on the origin of life. Examines the evolution of viruses and the “directed evolution”
controversy which concerns mechanisms of bacterial evolution.

BISC 671 Cellular and Molecular Immunology, MWF 9:05-9:55 AM and
W 8-8:50 AM, 4 credits
Prereq: Bisc 401 or Bisc 300: Requires permission of instructor
Introduces the basic concepts of immunology and describes how different immune responses can
either protect the body from infection or lead to immunological based diseases.

In Spring 2008
Novotny 484/684 Biomaterials & tissue engineering