

cGMP BIOPROCESSING COURSES

The following courses are presented by the North Carolina Community College System
They are a great value!

BioNetwork Capstone Learning Center

Fall 2005 Course Details

- I. **Title:** *Operations in Biotechnology Processes: An Overview*
Course Description: This course will focus on the details of the typical processing steps used to produce a biopharmaceutical (pharmaceutical produced by biotechnology). An understanding of the science and the equipment used in each process step will be presented. A laboratory component is provided to allow hands on experience in fermentation, product isolation, and purification of a protein in a simulated cGMP environment.
Hours: Lecture 15 hours/Laboratory 16 hours
Date: *September 12 – 16, 2005*; Monday – Thursday, 8:00 AM – 4:00 PM;
Friday, 8:00 AM – 12:00 Noon
Location: Alexandria Innovation Center, 7030 Kit Creek Rd., RTP
Lead Instructor: David Yarley; **Course Number:** #0530813; **Fee:** \$60
- II. **Title:** *The Elements of Aseptic Manufacturing (Level I)*
Course Description: This course will focus on the basics of Clean Room operations. Topics will include basic microbiology, clean room design and control, Environmental monitoring, glassware and equipment preparation, solution processing (compounding), and filtration. In addition, laboratory sessions will provide hands-on opportunities in various pre-manufacturing activities in a simulated cGMP environment.
Hours: Lecture 18 hours/Laboratory 18 hours
Date: *October 10 - 14, 2005*; Monday – Thursday, 8:00 AM – 5:00 PM;
Friday, 8:00 AM – 12:00 Noon
Location: Millpond Village, 3434 Kildaire Farm Rd., Cary, NC 27511
Lead Instructor: Len Amico; **Course Number:** #0530814; **Fee:** \$60
- III. **Title:** *The Elements of Microbial Identification*
Course Description: This course will focus on the various techniques commonly used to Study microbes at their cellular and biochemical level for the purpose of presumptively and definitively identifying bacteria and fungi in a biopharmaceutical or pharmaceutical manufacturing setting.
Hours: Lecture 10 hours/Laboratory 14 hours
Date: *September 19 - 23, 2005*; Monday – Thursday, 8:00 AM – 4:00 PM
(Friday might be needed for analyzing the lab results)
Location: Alexandria Innovation Center, 7030 Kit Creek Rd., RTP
Lead Instructor: Dr. Lynn Elwell; **Course Number:** #0530815; **Fee:** \$55

Registration: Standard Wake Tech Community College method; Please obtain the registration from www.waketech.edu (under *Continuing Education - Course Schedules*)

For more information, please contact:

Dr. Lin Wu, Dean; (Ph) 919-851-9109; (E-mail) lwu@waketech.edu