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ChBE 4310 Bioprocess Engineering (required course) Credit: 3-0-3 Instructor: Rachel Chen Textbook: Bioprocessing Engineering, Basic Concepts (2nd edition) Michael Shuler and Filret Kargi, 2002 Catalog Description: Integrating several ChBE core concepts, bioprocess engineering applies the engineering principles to biological systems

Bioprocess Engineering Principles - CiteSeerX

Bioprocess Development: An Interdisciplinary Challenge 11 Steps in Bioprocess Development: A Typical New Product From Recombinant DNA 12 A Quantitative Approach Chapter 2 Introduction to Engineering Calculations 9 21 Physical Variables, Dimensions and Units 9 211 Substantial Variables

10 212 Natural Variables 11

Introduction to Biotechnology and Bioprocess Engineering ...

“Bioprocess Engineering: Basic Concepts” by Shuler, ML and F Kargi (Second Edition, 2001, Prentice Hall PTR) is the recommended textbook for the course while “Bioprocess Engineering Principles” by Doran, PA(1995, Academic Press) is the recommended reference textbook The two books have been well received by students taking the course

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Unit Operations For Bioprocess Engineers

Unit Operations for Bioprocess Engineers Chenming (Mike) Zhang Department of Biological Systems Engineering Virginia Polytechnic Institute and State University Blacksburg, VA 24061 Abstract Unit Operations in Biological Systems Engineering was introduced into the curriculum at Virginia Tech in 2000 It is a lecture and laboratory combined course

Chapter 10: Sterilization and Bioreactor Operation

“Bioprocess Engineering: Basic Concepts” Shuler and Kargi, Prentice Hall, 2002 David R Shonnard Michigan Technological University 14
Sterilization of Gases → aerobic fermentations require 01 to 10 (L air / (L liquid • min)) → 50,000 L fermenter requires 7x106to 7x107 L air/day → microorganism concentrations in air are about 1-10

Bioprocess Engineering Credit / contact hours: Course ...

Outcome 4: an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts Outcome 6 an ability to develop and conduct appropriate experimentation, analyze and interpret