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University Cell growth is  
the primary response of  
viable cells to substrates  
and nutrients.

Substrates/nutrients + cells

? products + more cells

Product formation is a ...

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University 1. Removal of  
Insoluble Products

Microfiltration for

Removal of Cells A cell  
mass balance on the feed  
tank results in equation

[3], where  $C_F$ ,  $C_R$ , and  $C_P$   
are the concentrations of

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the cells in the feed,  
retentate, and permeate  
streams. Chemical  
Engineering C F V F t q R  
C R q F C F dt d

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**ENGINEERING AND  
MATERIALS SCIENCE**

**ChE 321:**

**Thermodynamics Spring  
2017 February 22, 2017,  
CLOSED NOTES Ver A.**

**General Instructions**

**Submit all problems in the  
order of the exam. Do all**

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work on exam pages. Use  
back if necessary. Submit  
all exam pages and the PH  
chart.

The lectures are  
categorized into 3 different  
filetypes: Animated, Plain,  
and PDF. Animated

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lectures are for students  
who prefer studying bit-by-  
bit, while plain lectures are  
not animated. Lectures 27  
and 29-31 are from Prof.  
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Chemical and  
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University of Illinois at

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offers students a unique  
learning experience with  
its world-class Unit  
Operations Laboratory and  
Process Simulation and

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Control Center (PSCC),  
which boasts 6,500 square  
feet and a three-story open  
bay dedicated to chemical-  
processing education. The  
laboratory features 18  
bench and pilot-plant-scale  
unit ...

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[3], where  $C_F$ ,  $C_R$ , and  $C$

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 $P$  are the concentrations of  
 the cells in the feed,  
 retentate, and permeate  
 streams. Chemical  
 Engineering  $C_F V_F t q R$   
 $C_R q F C_F dt d$

The Department of  
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Michigan State University  
. Ph.D. Dissertation

Defense . April 3. rd, 2019  
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USING CHEMO-  
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University Michigan  
9:00 am 3540 EB

Leonardo da Costa Sousa  
Advisor: Dr. Bruce Dale

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Engineering & Materials  
Science ChE 210:  
Modeling and Analysis of  
Transport Phenomena  
Spring 2017 Final Exam  
(100pts): May 3, 2017 1.  
(25pt) A vessel is  
employed to hold the  
liquid waste discharged

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from an industrial process  
prior to being sent to the  
wastewater treatment plant.

14. appendices. Lecture  
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Forum The annual  
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a great way to learn about  
department research ...

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Featured Articles PFR

Plug flow, or tubular,  
reactors consist of a  
hollow pipe or tube  
through which reactants  
flow. Pictured below is a  
plug flow reactor in the  
form of a tube wrapped  
around an acrylic mold

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which is encased in a tank.  
Water at a controlled temp  
...

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The annual CHEMS  
research forum is a great  
way to learn about  
department research and  
learn from invited

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speakers. Vehicle  
Lightweighting Graduate  
students Nick Kamar,  
Marianna Batista and  
Markus Downey from  
Professor Drzal's group  
are investigating surface  
treatments and sizings for  
low cost carbon fiber

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polymer composites for  
automotive lightweighting.

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students may fulfill the  
math requirements with  
these alternative courses:  
Math 115 – May be  
replaced by Math 185, or  
Math 195. Math 116 –

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May be replaced by Math  
156, Math 186, or Math  
196. Math 215 – May be  
replaced by Math 255,  
Math 285, or Math 295.  
Math 216 – May be  
replaced by Math 256,  
Math 286, or Math 296.

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7246 | [cemsdept@umn.edu](mailto:cemsdept@umn.edu)

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Combining areas of  
physics, chemistry and  
mathematics, chemical  
engineering students study  
the technology of large-  
scale production and  
manufacturing of products  
through chemical  
processes. In addition to

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developing an advanced  
grasp of chemical  
engineering, students  
assist faculty and  
researchers on projects  
such as drug ...

College/Institution: AAiT.  
Department/School/Center:

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School of Chemical and  
Bio Engineering. Program  
title: BSc in Chemical  
Engineering Program  
duration (in years): Five  
for regular and six for  
extension Study  
Language: English Credits  
and the equivalent ECTS:

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ECTS – 304. Mode of  
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