

Fall 2021

## PHEN 601-851: Principles of Pharmaceutical Engineering

Marc Bernhardt

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# PhEn-601

## SYLLABUS & POLICIES

(revised August 2021)

Marc Bernhardt  
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# ATTENDANCE

VIDEO LECTURES AND NOTES WILL BE POSTED WEEKLY TO CANVAS.

EACH STUDENT IS RESPONSIBLE FOR SETTING THEIR OWN SCHEDULE AND ENSURING THAT THEY ARE KEEPING UP WITH THE COURSE MATERIALS.

THE VIDEO LECTURES AND NOTES COVER MATERIAL THAT IS **NOT IN THE TEXTBOOK**

YOU ARE A GROWN-UP.

# GRADE CALCULATION

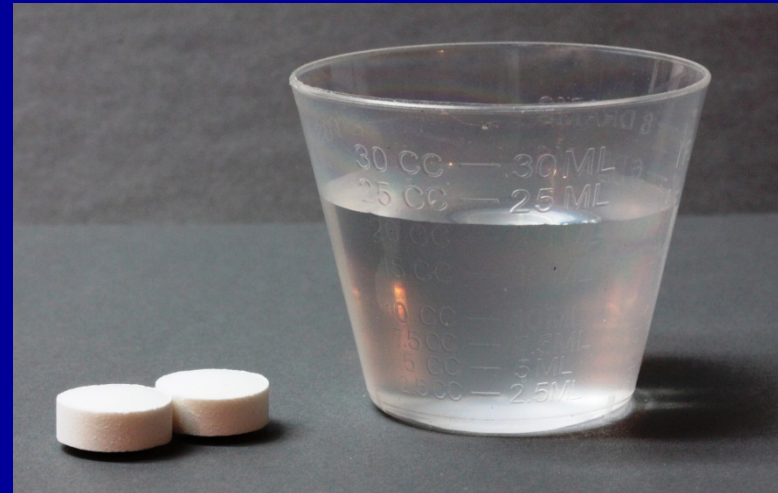
- Quiz / Homework 1 15%
- Midterm exam 35%
- Quiz / Homework 2 15%
- Final exam 35%

*This may change because  
of COVID-19 requirements  
for Social Distancing.*



# EXAMS & QUIZZES

- EXAMS ARE 3 HOURS, MAXIMUM.
- EXAMS ARE CLOSED BOOK
  - No books
  - No computers
  - No phones
  - No notes



# CHEATING

- **ACADEMIC HONESTY AND INTEGRITY ARE PARAMOUNT AT NJIT.**
- **THE NJIT HONOR CODE WILL BE UPHELD.**
- **ALL VIOLATIONS WILL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE DEAN OF STUDENTS.**



# CHEATING

- DON'T DO IT.
- DON'T COPY.
- DON'T PLAGIARIZE.
- TURNITIN.com WILL BE USED.



# SYLLABUS

TENTATIVE  
SYLLABUS.

CHANGES MAY  
OCCUR AND WILL  
BE ANNOUNCED  
IN VIA EMAIL, OR  
CANVAS.





# SYLLABUS

<b>Course Week</b>	<b>Calendar Week</b>	<b>Topics</b>	<b>Ansel Chapter(s)</b>
<b>1</b>	<b>Sep. 5</b>	<b>Product Classification, Terminology, Snake Oil, History</b>	<b>1</b>
<b>2</b>	<b>Sep. 12</b>	<b>Drug Development Clinical Trials Placebo</b>	<b>2</b>
<b>3</b>	<b>Sep. 19</b>	<b>Receptors FDA, cGMP Controlled Substances</b>	<b>3</b>
<b>4</b>	<b>Sep. 26</b>	<b>Packaging, Labeling, Advertising Goal Drug, ADME Drug Discovery, Drug Names</b>	<b>4, 5</b>

# SYLLABUS

Course Week	Calendar Week	Topics	Ansel Chapter(s)
5	Oct. 3	Quality Assurance Focus on a Disease	5
6	Oct. 10	Dosage Forms & Physics Stability, Absorption Clearance, Solid Dosage Forms	6, 7, 8, 9
7	Oct. 17	Ointment, Creams, Gels TDDS, Pharma	10, 11
8	Oct. 25 ?	<b>***MIDTERM EXAM***</b> The exact date and method will be announced via email.	

# SYLLABUS

<b>Course Week</b>	<b>Calendar Week</b>	<b>Topics</b>	<b>Ansel Chapter(s)</b>
<b>9</b>	<b>Oct. 31</b>	<b>Sanitary design, Water purification, Reverse Osmosis, Distillation</b>	<b>None</b>
<b>10</b>	<b>Nov. 7</b>	<b>Suppositories &amp; Solutions</b>	<b>12, 13</b>
<b>11</b>	<b>Nov. 14</b>	<b>Validation Disperse Systems</b>	<b>14 17</b>
<b>12</b>	<b>Nov. 21</b>	<b>Parenterals</b>	<b>15</b>

# SYLLABUS

Course Week	Calendar Week	Topics	Ansel Chapter(s)
13	Nov. 21	Biologicals, Risk	16 19
14	Nov. 28	Facility design, Ophthalmics, Radiopharmacy	18 19
15	Dec. 5	Biotechnology, Novel delivery	20 21
16	Dec. 13	Reading Days.	
17	Dec. 15 ?	***FINAL EXAM*** The exact date and method will be announced via email or Canvas.	

**THE END**