Chem 233 – Organic Chemistry I

Dr. John H Penn
Google “John Penn WVU”
John.Howard.Penn@gmail.com
Instructor Contact Information

• Office
  – 561 CRL (next to 559, NOT next to 560)
  – Take the elevator, do NOT take the stairs
  – Appointments through the website

• Website
  – http://www.as.wvu.edu/~jpenn
  – Google “John Penn WVU” and take the very first hit
# Summer 2015

<table>
<thead>
<tr>
<th>Course</th>
<th>Exam 1 Details</th>
<th>Exam 2 Details</th>
<th>Exam 3 Details</th>
<th>Final Exam Details</th>
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<td>Thursday, June 18, 2015</td>
<td>Friday, June 26, 2015</td>
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<td>Chem 231</td>
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**Assigned Homework:**
- [ ]
- [ ]
- [ ]

**Syllabus:**
- [ ]
- [ ]
- [ ]

**Lecture Notes:**
- [ ]
- [ ]
- [ ]
Instructor Contact Information

• Phone
  – 304-293-0915 (NOTE: Text messages do not go through this number)
  – Cell phone number will be provided in class

• Email
  – John.Howard.Penn@gmail.com is fastest
  – John.Penn@mail.wvu.edu is next fastest
  – jpenn@we-learn-horizon.com gets slow service
Chem 233 – Organic Chemistry I

• Lecture Course Only
  – Lab grade does not get entered into the final grade determination.
  – Lab will be meeting this week
  – Lecture composed of
    • Exams
    • Homework
    • In-Class Participation
Lecture Materials

Only Recommended

- Textbook
- Study Guide
Lecture – 10:30 – 12:00 MTWRF

• Textbook
  – *Organic Chemistry by Paula Bruice (7th Edition)*

• Class Participation
  – Obtain an account from TopHat.com

• Homework
  – Assigned problems from the WE_LEARN System

• Exams (see the next slide)
Exam Schedule (tentative)

- Thursday May 28, 2015, 5:00 – 7:00 PM
- Monday, June 8, 2015, 5:00 – 7:00 PM
- Tuesday, June 16, 2015, 5:00 – 7:00 PM
- Friday, June 26, 2015, 5:00 – 7:00 PM
- Retake (if necessary) on Saturday, June 27, 2015, 10:00 AM – 12:00 PM

All exams administered in the computer lab of the Soc/Anthro Testing Center
Class Participation

• Get an account from TopHat.com
  — PLEASE choose an account name such as your MIX name
  — Cost ~$20 (Cost is in Canadian dollars, not USD)
Class Participation

• Four (4) class periods will be dropped
  – First and second class periods will be automatically dropped
  – Four (6) questions/class
  – Each question is usually graded on 50% participation and 50% correctness
Class Participation

• Four (4) class periods will be dropped
  – First and second class periods will be automatically dropped
  – Four (6) questions/class
  – Each question is usually graded on 50% participation and 50% correctness

• You play with me and I play with you.
  – Honestly work the in-class questions
  – Pay attention
  – I give you the answers and you get 100%
First attempts at TopHat

Are you male or female?

A. Male

B. Female

JHP to provide the number

Text **xxxx** choice to (315)-636-0905

Either A or B

Store this number as a contact

5281
First attempts at TopHat

Have you taken Chem 233 (i.e., Organic Chemistry I) previously?

A. Yes
B. No

JHP to provide the number

Text xxxx choice to (315)-636-0905

Store this number as a contact

Either A or B

1588
What was your grade in Chem 116 (or the equivalent)?

A. “A”
B. “B”
C. “C”
D. “D”
E. “F”
F. “I”
G. I haven’t taken the course yet.

JHP to provide the number

Text [xxxxx choice to (315)-636-0905

Either A or B
What is your expected grade in this course (i.e., Chem 233)?

A. “A”
B. “B”
C. “C”
D. “D”
E. “F”
F. “I”

JHP to provide the number

Store this number as a contact

Text XXXXX choice to (315)-636-0905

4257

Either A or B
What is your professional goal? Why are you taking this course?

A. Biology Graduate School
B. Biochemistry
C. Chemical Engineer
D. Chemist
E. Environmental Science
F. Forensic Science
G. Law
H. Medical Doctor
I. Nutritionist
J. Optometrist
K. Pharmacist
L. Physical Therapy
M. Teaching
N. Veterinarian
O. Haven’t Decided Yet

JHP to provide the number

Text xxxx choice to (315)-636-0905

4312

Either A or B

Store this number as a contact
Homework

- onDemand.Questionmark.com/399959/perception
- Due Dates will be assigned
  - (work the assignments with deadlines)
  - Each attempt brings a new assignment
  - Homework Grade is based upon the maximum score
  - Target Grade = 100%
Homework Grades in Past Semesters

Why less than 90%????

Time
## Final Grade Determination

<table>
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<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>20%</td>
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<tr>
<td>Exam 2</td>
<td>20%</td>
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<tr>
<td>Exam 3</td>
<td>20%</td>
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<tr>
<td>Exam 4 (cumulative)</td>
<td>30%</td>
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<tr>
<td>Homework</td>
<td>5%</td>
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<tr>
<td>Class Participation</td>
<td>5%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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</tbody>
</table>
Chem 233 Exam Averages

Exam 1: Spring 2014 = 86.50%, Summer 2014 = 89.70%, Spring 2015 = 85.00%
Exam 2: Spring 2014 = 82.50%, Summer 2014 = 71.20%, Spring 2015 = 74%
Exam 3: Spring 2014 = 63.50%, Summer 2014 = 75.80%, Spring 2015 = 67.20%
Exam 4: Spring 2014 = 65.30%, Summer 2014 = 75.10%, Spring 2015 = 67.50%
Grade Distributions in Previous Semesters

Grade Distribution, Chem 233 Spring 2015
- F, 3, 2%
- W, 6, 5%
- A, 18, 15%
- D, 25, 20%
- B, 31, 25%
- C, 40, 33%

Grade Distribution Chem 233 Spring 2014
- W, 7, 7%
- I, 0, 0%
- A, 13, 13%
- D, 19, 19%
- B, 26, 27%
- C, 22, 22%

Chem 233, Summer 2014
- F, 1, 2%
- W, 0, 0%
- I, 1, 2%
- D, 5, 7%
- A, 20, 29%
- B, 22, 32%
- C, 19, 28%
What have I missed?
5/18/15

Bonding

Electronegativity – desire to attract electrons - increases to the right in a row.
Electropositivity – desire to give up electrons

in the row C, N, O, F

F\(^{2-}\) is better than O\(^{-}\) .......

F\(^{2+}\) is worse than O\(^{+}\) .......

***

Same electronegativity

C - H
C - H equal sharing covalent bond.

C - O - H polar covalent

Li⁺ F⁻ ionic bond

H - O - H

 Charges in molecules are where R x R's Start

Na O H

Group I are spectator ions.