PHYSICS 1214 - General Physics I - Fall 2020, section 01
Larry S. Liebovitch, Ph.D.  people.qc.cuny.edu/faculty/Larry.Liebovitch/pages

An algebra-based physics course about linear and circular motion, forces, fluids, heat, and their applications for students in life sciences, pre-health professions, and liberal arts.

You must also separately register for Physics Lab, Physics 1211, which is treated as a separate class.

Textbooks (TWO REQUIRED):
2. The 5 Elements of Effective Thinking by Burger and Starbird ISBN 978-0-691-15666-8

Other helpful materials (NOT required)
Schaum’s Outline Of College Physics, Twelfth Edition by Eugene Hecht
Just Enough Physics Kindle Edition by Rhett Allain

Class will be Live, ON-LINE:
Live: Mondays and Wednesdays 1:40 PM – 3:30 PM (unless otherwise noted)

Class Materials will also be POSTED on the Class Website
Lecture videos, powerpoints, journal questions, recitation: problems, and Q&A (discussion boards) at: https://drive.google.com/drive/folders/1l_c5QClq8SZ8O-m2zV7IrQU5wQyaO?usp=sharing

<table>
<thead>
<tr>
<th>Week</th>
<th>Monday Schedule</th>
<th>Topic</th>
<th>Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>8/26/20</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>8/31/20 Recitation/Problems</td>
<td>9/2/20</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>9/7/20 NO CLASS</td>
<td>9/9/20</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>9/14/20 2-D motion</td>
<td>9/16/20 Exam #1 (0,1,2)</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>9/21/20 Recitation/Problems</td>
<td>9/23/20 Newton's 3 Laws</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>9/29/20 Recitation/Problems</td>
<td>Monday Schedule</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>10/5/20 Recitation/Problems</td>
<td>10/7/20 Circular Motion</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>10/12/20 NO CLASS</td>
<td>10/14/20 Recitation/Problems</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>10/19/20 Work and Energy</td>
<td>10/21/20 Exam #2 (3,4,5)</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>10/26/20 Recitation/Problems</td>
<td>10/28/20 Linear Momentum</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>11/2/20 Recitation/Problems</td>
<td>11/4/20 Angular Motion &amp; Dynamics</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>11/9/20 Recitation/Problems</td>
<td>11/11/20 Exam #3 (6,7,8)</td>
</tr>
<tr>
<td>13</td>
<td></td>
<td>11/16/20 Oscillators &amp; Waves</td>
<td>11/18/20 Recitation/Problems</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>11/23/20 Fluids</td>
<td>11/25/20 NO CLASS</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td>11/30/20 Recitation/Problems</td>
<td>12/2/20 Temperature, Heat</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>12/7/20 Recitation/Problems</td>
<td>12/9/20 Review Problems for Final Exam</td>
</tr>
</tbody>
</table>

Chapters for exams 1,2,3 are TENTATIVE; FINAL EXAM December 14-20, 2020 is CUMULATIVE
Grading Policy

40% Exams
3 in-class + 1 final exam: each 10%

15% Homework
Each week Pearson My Lab Mastering Physics:
Course ID: liebovitch95397
https://www.pearsonmylabandmastering.com/northamerica/

15% Recitation Classes: Group Work
Grade based on activities DURING the on-line, live class
• attendance
• solution accuracy to the assigned problems
• presentation of those solutions to the class

15% Chapter Re-Write: Individual Work
Re-write the ESSENTIAL ideas of ONE chapter in the College Physics textbook
to make it easier for you and other students to understand
Chapters assigned to each student at random by the instructor
Must include:
• qualitative summary of ideas
• important equations and how they are used
• three sample problems with their detailed solutions
• 6 to 10 pages, with text, figures, and equations

15% Answers to Journal Questions
Journal Questions to answer are assigned with each lecture
Write 150 to 300 word answers to each journal question

100% Course Grade = ALL of the Above

Policy on Missed or Late Assignments or Exams: There are NO makeups for late assignments or missed exams, except for “exceptional circumstances” as determined exclusively by the instructor. (Note: sickness before an exam or similar excuses are NOT “exceptional circumstances”.)

Policy on Religious Observances: A student who will miss an academic obligation because of religious observance is responsible for contacting the instructor within the first two weeks of the semester.

Policy on COVID-19: Course adjustments due to changing circumstances may require that this syllabus be updated at any time.

Policy on Academic Dishonesty: Academic dishonesty is prohibited in The City University of New York. Academic dishonesty includes: cheating, plagiarism, obtaining unfair advantage, and falsification of records and official documents. Penalties for academic dishonesty include academic sanctions, such as failing or otherwise reduced grades, and/or disciplinary sanctions, including suspension or expulsion. The full Queens College policy is available at:
https://www.qc.cuny.edu/StudentLife/services/studev/Documents/Academic%20Integrity%20Violation%20Form%20RV.pdf