**PHYS2101 – Fall 2012**

**Nicholson 109**

<table>
<thead>
<tr>
<th>Section</th>
<th>Name</th>
<th>Days &amp; Time</th>
<th>Office, Phone, Email</th>
<th>Office Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dubravka Rupnik</td>
<td>8:30 - 9:30 MWF</td>
<td>281 Nicholson, <a href="mailto:rupnik@phys.lsu.edu">rupnik@phys.lsu.edu</a></td>
<td>MW 12-1, TuTh 9:30-10:30 F 1:30-2:30</td>
</tr>
<tr>
<td>2</td>
<td>Dubravka Rupnik</td>
<td>10:30 - 11:30 MWF</td>
<td>281 Nicholson, <a href="mailto:rupnik@phys.lsu.edu">rupnik@phys.lsu.edu</a></td>
<td>MW 12-1, TuTh 9:30-10:30 F 1:30-2:30</td>
</tr>
<tr>
<td>3</td>
<td>Jiandi Zhang</td>
<td>5:30 - 7:00 MW</td>
<td>229-A Nicholson 8-4103, <a href="mailto:jiandiz@lsu.edu">jiandiz@lsu.edu</a></td>
<td>2:00 – 5:00 MW</td>
</tr>
<tr>
<td>4</td>
<td>William McElgin</td>
<td>2:30 - 3:30 MWF</td>
<td>368 Nicholson – 8-6912 <a href="mailto:mcelgin@lsu.edu">mcelgin@lsu.edu</a></td>
<td>12:30-1:30 MW 12:00-1:30 TTH</td>
</tr>
<tr>
<td>5</td>
<td>William McElgin</td>
<td>10:30 - 12:00 TTH</td>
<td>368 Nicholson – 8-6912 <a href="mailto:mcelgin@lsu.edu">mcelgin@lsu.edu</a></td>
<td>12:30-1:30 MW 12:00-1:30 TTH</td>
</tr>
<tr>
<td>6</td>
<td>Rongying Jin</td>
<td>1:30 - 3:00 TTH</td>
<td>229-B Nicholson 8-0028, <a href="mailto:rjlin@lsu.edu">rjlin@lsu.edu</a></td>
<td>10:00-12:00 TTH</td>
</tr>
</tbody>
</table>

**Required Text:** Fundamentals of Physics, by Halliday, Resnick, and Walker, custom 9th edition is available in the bookstore and comes bundled with a WebAssign access code, which will be needed for homework assignments. You can also use the 8th or 9th regular edition, which contains all the chapters needed for Physics 2101, but the regular edition (or used books) does not come with WebAssign access, which you will need to purchase separately. You can purchase the access code with or without the E-book directly from WebAssign (http://www.webassign.net/features/textbooks/hrw8/details.html?l=publisher).

**Class WEB Site:** http://www.phys.lsu.edu/classes/ or Moodle (HW Site: http://webassign.net/student.html)

**CLASS OVERVIEW:**
- This calculus-based, college level physics course covers roughly chapters 1 through 20 of the text.
- It is assumed that everyone has credit in PHYS 1100 so the material in Chapters 1-6 (vectors, 1- and 2-D kinematics, Newton’s laws) will only be reviewed in the first two weeks of class. If you tested out of PHYS 1100, you will be assumed to know this material and should review it carefully if you don't remember it well.
- After the first two weeks the course assumes a more normal pace and will cover most of the section contained in chapters 7 – 20, with the exception of chapter 17, which will be skipped. The core material of the course covers concepts in mechanics, fluids, wave motion, and thermodynamics.
- The lecture schedule will specifically indicate sections of text that are covered on a given week. Students should read and become familiar with this material before coming to class.
- Course grade will be determined by weekly quizzes, weekly homework, three 1-hour tests, and 2-hour final (600 points total)
- **PHYS 2101 is a general Education Course in the Natural Science area.**

**Homework:**
- Homework assignments will be posted online at: http://webassign.net/student.html (details announced in class).
- Except when noted differently in class, due dates for homework assignments will be 11:59pm on Monday.
- Because full solutions will be available after the due date, no late HW will be accepted.

**Quiz:**
- There will be quizzes, typically weekly, based primarily on the HW problems due that week. The format will be at the discretion of individual instructors.

**Tutoring:**
- If you do not understand the material or you experience difficulty in working the problems, seek help from the graduate tutors in Room 102 of Nicholson Hall. You should check at that room for schedule times. Also see http://www.phys.lsu.edu/newwebsite/academics/tutor.html for additional information and times.
- The 2101 Supplemental Instruction leader will be announced. Details of office and help hours will be posted by the SI.
- Make sure you take advantage of the instructor office hours posted, this is usually a very under-used resource. You should feel free to go to any instructor's office hours if you have class conflicts with your own instructor's office hours; all sections follow the same schedule and use the same homework assignments.
PHYS2101 – Fall 2012

Exams:

<table>
<thead>
<tr>
<th>Sections 1: (Rupnik)</th>
<th>NICH 130</th>
<th>Sections 4&amp;5: (McElgin)</th>
<th>HOWE 130</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 2 &amp; 7: (Rupnik)</td>
<td>NICH 130</td>
<td>Section 6: (Jin)</td>
<td>LCKT 10</td>
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<tr>
<td>Section 3: (Zhang)</td>
<td>HOWE E-137</td>
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Test Locations (except the first exam):

- All exams will be a combination of multiple-choice questions and work problems for which you must show your work.
- The Final is Dec. 6th (3:00 – 5:00pm) and is cumulative. Students having three or more final examinations in a 24 hour period may request permission to take no more than two examinations on the day concerned. These requests should be made to the dean or director at the college or school in advance (before the required deadline).
- Old exams will be posted, but notice that the number of exams and material covered in them is different in different years.
- A formula sheet will also be provided and no other material is to be used during the exam. Notes, books, and crib sheets are strictly forbidden. No computers, beepers, pagers, cellular phones or other communication devices are allowed. You may not use the calculator within one of these devices. Formula sheets will be posted in advance of the exams.

Grading:

- HW – Webassign – 50 pts (grade computed at 95% of the total amount of points)
- Quiz – 50 pts
- Three regular exams (Tests 1, 2, and 3) – 100 pts. each
- Final Exam – 200 pts (approximately half will be new material).
- Your final grade will be based on 600 total points.
  - A: 88 - 100%  B: 77 - 88%  C: 60 - 77%  D: 50-60%  F: 0-50%

If your percentage grade is within these ranges, you are guaranteed the associated letter grade.

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Sections covered</th>
<th>Homework</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Aug 20, 22, 24 (21, 23)*</td>
<td>1-all, 2-all, 3-all, 4.2-7</td>
<td>Hw1 – Sep.5</td>
<td>Review Cha.1-6</td>
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<tr>
<td>2</td>
<td>Aug 27, 29, 31 (28, 30)</td>
<td>Hurricane Isaac distraction</td>
<td>HW2 – Sep.10</td>
<td>Sep. 3 Labor day</td>
</tr>
<tr>
<td>3</td>
<td>Sep. 5, 7 (4, 6)</td>
<td>5-all, 6.2-3, 6.5, 7.2-4</td>
<td>Hw3 - Sep.17</td>
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<td>4</td>
<td>Sep. 10, 12, 14 (11, 13)</td>
<td>7.5-9, 8.2</td>
<td>Hw4 - Sep.24</td>
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<tr>
<td>5</td>
<td>Sep. 17, 19, 21 (18, 20)</td>
<td>8.3-8, 9.2</td>
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<tr>
<td>6</td>
<td>Sep. 24, 26, 28 (25, 27)</td>
<td>9.3-11, 10.2</td>
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<td>Sep. 18</td>
<td></td>
<td>TEST #1 – Chapt. 7-8</td>
<td>6 - 7 pm</td>
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<td>7</td>
<td>Oct. 1, 3, 5 (2, 4)</td>
<td>10.2-10</td>
<td>Hw5 – Oct.1</td>
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<tr>
<td>8</td>
<td>Oct. 8, 10, 12 (9, 11)</td>
<td>11.2-4, 11.6-11, 12.2-5</td>
<td>Hw6 – Oct.8</td>
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<tr>
<td>9</td>
<td>Oct. 15, 17, 19 (16, 18)</td>
<td>13.2-4, 6-7</td>
<td>Hw7 - Oct.15</td>
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<tr>
<td>Oct. 16</td>
<td></td>
<td>Test #2 – Chapt. 9-12</td>
<td>6 - 7 pm</td>
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<tr>
<td>10</td>
<td>Oct. 22, 24, 26 (23, 25)</td>
<td>14.2-7, 15.2-4</td>
<td>Hw8 - Oct.22</td>
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<tr>
<td>11</td>
<td>Oct. 29, 31 (30), Nov 2 (1)</td>
<td>15.5-6, 16.2-6, 16.9-10</td>
<td>Hw9 – Oct.29</td>
<td></td>
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<tr>
<td>12</td>
<td>Nov. 5, 7, 9 (6, 8)</td>
<td>16.12-13, 18.1-6</td>
<td>Hw10 - Nov.5</td>
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<tr>
<td>13</td>
<td>Nov. 12, 14, 16 (13, 15)</td>
<td>18.7-11, 19.2-5, 8-9</td>
<td>Hw11 - Nov.12</td>
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<tr>
<td>Nov. 13</td>
<td></td>
<td>Test #3 – Chapt. 13-16</td>
<td>6 - 7 pm</td>
<td>Nov. 21-23, Thanks.</td>
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<tr>
<td>14</td>
<td>Nov. 19 21,22 (20)</td>
<td>19.10-11</td>
<td>Hw12 - Nov.19</td>
<td></td>
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<tr>
<td>15</td>
<td>Nov. 26, 28, 30 (27, 29)</td>
<td>20.2-7, review</td>
<td>Hw13 - Nov.26</td>
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<tr>
<td>Dec. 6 (Thursday)</td>
<td></td>
<td>FINAL EXAM</td>
<td>3:00 – 5:00 pm</td>
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<td>(~ ½ Chapt. 18-20 + ~ ½ Chapt. 1-16)</td>
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*Dates in parenthesis are for TTH lectures § From 9th Ed HRW

Disabilities

If you have special requirements for taking exams (or other course-related activities), please follow the procedures with the Office of Disability Services, 112 Johnston Hall, and bring documentation from that office to your instructor a week before the affected activity.