General Information

Lab Room: 385 University College
Lab Times: 2:30-5:30 on Tuesdays, Wednesdays, Thursdays - exact dates specified below

Instructor: Danielle Pahud, 221 Allen
Phone / Email: 204-474-6202 / Danielle.Pahud@umanitoba.ca
Office Hours: Mondays 11-12, Fridays 10-11, or by appointment or drop-in
Teaching Assistants: Benson Guest (umguest@myumanitoba.ca)
                    Erica Franzmann (umfranze@myumanitoba.ca)

Websites
For the lab: http://www.physics.umanitoba.ca/astro/
For the lecture: http://www2.physics.umanitoba.ca/rogers/phys1820/

Materials Required for each lab:
• Duotang Cover
• Ruler 30 cm (mm divisions)
• Sharp pencil & eraser
• Calculator
• Graph Paper (mm divisions)

Requirements: The labs provide 25% of the final astronomy mark. The best four grades out of five labs will be counted towards your final lab mark.

Laboratory assignments are to be completed and handed in, in a duotang, at the end of the lab period. Should you miss an exercise, you may make it up by attending a different lab section. Please communicate this with the instructor, Danielle Pahud, and your teaching assistant as soon as possible. Once the exercise has been marked and handed back there is no makeup possible.

Lab Schedule:

<table>
<thead>
<tr>
<th>Dates</th>
<th>Lab</th>
<th>Materials Needed</th>
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<tbody>
<tr>
<td>Jan 15 th - Jan 19 th</td>
<td>Dark Matter</td>
<td>mm graph paper, ruler, calculator</td>
</tr>
<tr>
<td>Jan 29 th - Feb 2 nd</td>
<td>Main Sequence fitting</td>
<td>mm graph paper, ruler, calculator</td>
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<tr>
<td>Feb 12 th - Feb 15 th</td>
<td>Shape of Space</td>
<td>Balloons &amp; string, ruler, graph paper</td>
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<tr>
<td>March 5 th - March 9 th</td>
<td>Supernovae</td>
<td>Calculator, ruler</td>
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<tr>
<td>March 19 th - March 23 rd</td>
<td>Compact Objects</td>
<td>mm graph paper, Calculator, ruler</td>
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