

## Summer Session 2024 – Equipment and Materials

### Physics 112:

The labs are designed to be completed at home without access to the resources of a school. A stopwatch and tape measure will be required. Most of the labs make use of interactive online simulator activities.

<b>Free Fall Lab:</b> <ul style="list-style-type: none"><li>▪ stopwatch</li><li>▪ small object</li><li>▪ large object</li><li>▪ tape measure</li></ul>	<b>Newton's First Law Lab:</b> <ul style="list-style-type: none"><li>▪ online interactive simulator (link in the lab instructions)</li></ul>
<b>Newton's Second Law Lab:</b> <ul style="list-style-type: none"><li>▪ stopwatch</li><li>▪ online interactive simulator (link in the lab instructions)</li></ul>	<b>Friction Lab:</b> <ul style="list-style-type: none"><li>▪ online interactive simulator (link in the lab instructions)</li></ul>
<b>Atwood Machine Lab:</b> <ul style="list-style-type: none"><li>▪ online interactive simulator (link in the lab instructions)</li></ul>	<b>Spring Force Lab:</b> <ul style="list-style-type: none"><li>▪ online interactive simulator (link in the lab instructions)</li></ul>
<b>Conservation of Energy Lab:</b> <ul style="list-style-type: none"><li>▪ online interactive simulator (link in the lab instructions)</li></ul>	

## Summer Session 2024 – Equipment and Materials

### Physics 122:

The labs are designed to be completed at home without access to the resources of a school. A stopwatch and meter stick. A few labs make use of interactive online simulator activities.

All other materials are listed by laboratory:

<b>Ramp Forces and Motion Lab:</b> <ul style="list-style-type: none"><li>▪ 2 wooden rulers</li><li>▪ 2 rubber erasers</li><li>▪ 2 sticks of chewing gum</li><li>▪ 1 coin</li><li>▪ 1 paper clip</li><li>▪ books</li></ul>	<b>Equilibrium Lab:</b> <ul style="list-style-type: none"><li>▪ online interactive simulator (link in the lab instructions)</li></ul>
<b>Horizontal Projectile Lab:</b> <ul style="list-style-type: none"><li>• small steel ball or marble</li><li>• plastic ruler with groove in the center or a book</li><li>• carbon paper</li><li>• meter stick</li><li>• masking tape</li><li>• stopwatch</li></ul>	<b>Gravity Force Lab:</b> <ul style="list-style-type: none"><li>▪ online interactive simulator (link in the lab instructions)</li></ul>