***University Physics*** is an OpenStax resource that you can use for free.

For each week of PHYS100, the table below provides links to the relevant chapters of University Physics.

Click [here](http://cnx.org/contents/1Q9uMg_a%405.5%3AGofkr9Oy%405/Preface) to go to the beginning of University Physics and start exploring on your own.

|  |  |
| --- | --- |
| **byteShelf** | **OpenStax link** |
| Week 1 | Kinematic Definitions | [http://cnx.org/contents/1Q9uMg\_a@5.5:CYfH-Eos@4/Introduction](http://cnx.org/contents/1Q9uMg_a%405.5%3ACYfH-Eos%404/Introduction) |
| Week 2 | Motion with Constant Acceleration and 1-D Relative Motion | [http://cnx.org/contents/1Q9uMg\_a@5.5:CYfH-Eos@4/Introduction http://cnx.org/contents/1Q9uMg\_a@5.5:XUZSxANA@4/Relative-Motion-in-One-and-Two](http://cnx.org/contents/1Q9uMg_a%405.5%3ACYfH-Eos%404/Introduction) |
| Week 3 | Vectors and 2-D Relative Motion | [http://cnx.org/contents/1Q9uMg\_a@5.5:CEzSxrSw@4/Introduction http://cnx.org/contents/1Q9uMg\_a@5.5:XUZSxANA@4/Relative-Motion-in-One-and-Two](http://cnx.org/contents/1Q9uMg_a%405.5%3ACEzSxrSw%404/Introduction) |
| Week 4 | Projectile Motion | [http://cnx.org/contents/1Q9uMg\_a@5.5:WYkTSXgj@4/Projectile-Motion](http://cnx.org/contents/1Q9uMg_a%405.5%3AWYkTSXgj%404/Projectile-Motion) |
| Week 5 | Newton's 2nd Law | [http://cnx.org/contents/1Q9uMg\_a@5.5:FexZCg8P@4/Introduction http://cnx.org/contents/1Q9uMg\_a@5.5:6BHJgM9i@4/Solving-Problems-with-Newtons-](http://cnx.org/contents/1Q9uMg_a%405.5%3AFexZCg8P%404/Introduction) |
| Week 6 | Newton's 1st and 3rd Law | [http://cnx.org/contents/1Q9uMg\_a@5.5:FexZCg8P@4/Introduction http://cnx.org/contents/1Q9uMg\_a@5.5:6BHJgM9i@4/Solving-Problems-with-Newtons-](http://cnx.org/contents/1Q9uMg_a%405.5%3AFexZCg8P%404/Introduction) |
| Week 7 | Friction and Uniform Circular Motion | [http://cnx.org/contents/1Q9uMg\_a@5.5:k3hWWhIP@4/Friction http://cnx.org/contents/1Q9uMg\_a@5.5:40XjF4O6@4/Centripetal-Force http://cnx.org/contents/1Q9uMg\_a@5.5:py6Hulz7/Uniform-Circular-Motion](http://cnx.org/contents/1Q9uMg_a%405.5%3Apy6Hulz7/Uniform-Circular-Motion) |
| Week 8 | Universal Gravity and Spring Forces | [http://cnx.org/contents/1Q9uMg\_a@5.5:Lk3KDgPj@3/Introduction http://cnx.org/contents/1Q9uMg\_a@5.5:dRfHU006@4/Common-Forces](http://cnx.org/contents/1Q9uMg_a%405.5%3AdRfHU006%404/Common-Forces) |