

Assignments

Physics 135: Elements of Physics

Spring, 2017

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The material for the course consists of

- The online textbook for the course, which you should read as the course progresses. It may be found at

Volume 1: https://cnx.org/contents/1Q9uMg_a@5.3:bG-_rWXy@5/Introduction

- Online modules that you must work through on a regular basis,
- Assignments that are done online,
- Optional extra credit assignments done online, and
- Three tests, which will be taken online under supervision.

In addition, you will have a weekly laboratory, for which your assigned Teaching Assistant (TA) will give you a syllabus and assignments. Please note that all online assignments and extra credit have a firm deadline and *must be turned in by the listed due date and time to receive credit.*

Modules:

You are expected to work through the Modules at the following links on the schedule indicated. Make sure that you can work the problems that are worked out in the web material. Then make sure that you can work similar problems that are worked in the online textbook. Explore some of the links in **bold** text that are embedded in the web material. Complete the optional exercises for extra credit.

NOTE: These links are used for more than one course. *For this course only, ignore the references to the book by Serway and the Workbook under Additional Material.*

Jan 11	Introduction	Feb 15	Friction and Drag	Mar 10	Rot. Kinematics
Jan 13	Position	Feb 17	Circular Motion	Mar 22	Rot. Dynamics
Jan 18	L. of Kinematics	Feb 22	Work	TEST 2	
Jan 20	1-d Motion	Feb 24	Energy	Mar 29	Angular momentum
Jan 25	Free Fall	Mar 1	Work and energy	Mar 31	Kepler's Laws
Jan 27	3-d Motion	Mar 3	Momentum	Apr 5	Harmonic motion
Feb 1	Projectile motion	Mar 8	Rockets	Apr 7	The pendulum
Feb 3	Circular motion			Apr 12	Mechanical waves
Feb 7	Newton's 1st law			Apr 19	Sound, water waves
Feb 10	Newtons's 2nd law			Apr 23	The Doppler effect
Feb 13	Newton's 3rd law			TEST 3	
TEST 1					

Assignments:

- Assignments cover the material presented in the Web-based class modules. They may refer you back to the module or to an online textbook. They may be found under **Assignments** in Blackboard.

Assignments are submitted over **Blackboard**. Assignments are scored by the computer and you will receive your assignment grade immediately.

- You can submit these assignments up to three times, with the highest score counting.

Assignments are due at 5 PM on the indicated date. **No late assignments**

- **will be accepted.**

Assignment:	Due Date	Assignment:	Due Date:	
A1	Jan 15	A12	Mar 8	
A2	Jan 20	A13	Mar 10	
A3	Jan 25	A14	Mar 22	
A4	Jan 27	A15	Mar 31	
A5	Feb 1	A16	Apr 5	
A6	Feb 3	A17	Apr 7	
A7	Feb 8	A18	Apr 12	
A8	Feb 17	A19	Apr 17	
A9	Feb 22	A20	Apr 22	
A10	Mar 1	A21	Apr 25	
A11	Mar 3	A22	Apr 28	

Extra credit:

Extra credit assignments must be handed in **on time**.

You can earn up to a total of 5 points extra credit by completing all these assignments. Later assignments often require skills learned while completing an earlier assignment. Extra credit points are added to your total score from tests, homework assignments and laboratories.

Due Date:	Assignment:	Due Date:	Assignment:
Jan 18	Extra credit 1	Mar 8	Extra credit 6
Jan 27	Extra credit 2	Mar 22	Extra credit 7
Feb 8	Extra credit 3	Apr 7	Extra credit 8
Feb 22	Extra credit 4	Apr 19	Extra credit 9
Mar 1	Extra credit 5	Apr 28	Extra credit 10

NOTE: The interactive animations in some above assignment and extra credit links are Java applets. They may not run in all browsers (in particular, Chrome may have Java applets blocked for security reasons). If your system is running Windows, you may have to use Internet Explorer or Firefox.

Tests:

Test are proctored, computer-based exams.

They are only available during scheduled

- times, and only on the computers in a room in Nielsen Physics. Students with a scheduling conflict must contact the instructor. An alternate exam time can be arranged.

Test 1 TBA

Test 2 TBA

Test 3 TBA