

VALENCIA COLLEGE

Physics Lab Orientation

FALL 2021

How can I know my Physics Lab schedule?

You will need to conduct 9 labs this term. The schedule for the experiments can be found either on your canvas or in the Physics Lab website.

The picture on the right shows an example of a schedule.

Make sure you identify the name and code for each of the experiments as well as the 'Begin day' and 'Due day'. During this period of time, you must complete all calculations, verify the results with a lab instructor and submit your lab report.

Valencia College

Online Physics Laboratory Schedule Fall Term 2021
Phy 1007C CRN 17744 Prof. Marcien Dentey

Assigned Experiments

		Begin day	Due day
	Intro Week	Aug 23	Aug 29
M4a	Measurements	Aug 30	Sep 9
M9c	Free Fall Acceleration	Sep 10	Sep 23
F5a	Pressure & Volume	Sep 24	Oct 07
F9a	Fluid Mechanics & Bernoulli's Principle	Oct 1	Oct 14
T4a	Thermal Expansion	Oct 8	Oct 21
S7a	Measuring Sound Speed by Air Column Resonance	Oct 15	Oct 28
E4a	Simple D. C. Circuits	Oct 29	Nov 11
E5a	Resistivity of Different Materials	Nov 5	Nov 18
A5a	Line Spectra and Energy	Nov 12	Dec 2

Online verification of calculations will be available from Monday through Thursday from 10:00am to 8:00pm with previous reservation.
 First day for online assistance will be Monday Aug 30 – 2021.
 Last day for online assistance will be Thursday Dec 2 – 2021.
 Online assistance will be closed the following dates:
 Sep 6 - 2020 (Labor day)
 Nov 11 (Veterans day)
 Nov 22 to 25 - 2020 (Thanksgiving)

Link to Schedules:

<http://science.valenciacollege.edu/physics/physics-index.html>



WEST CAMPUS PHYSICS LABORATORY

Valencia's West Campus Physics Lab utilizes an open concept approach where students independently schedule their experiments during the lab's open hours, presently 40 hours per week. This creates a dynamic environment with students from five different physics courses conducting experiments simultaneously in the open lab space. This dynamic nature facilitates diverse interactions between students, professors and lab personnel. [Read more...](#)

Schedules [Staff](#) [Lab Orientation](#)

Phy1007C, Online, Ivan Padron	PDF
Phy2053C, Online, Wafaa Khattou	PDF
Phy2053C, Online, Homaira ParchamyAraghy	PDF
Phy2054C, Online, Wafaa Khattou	PDF
Phy2048C, Online, Irina Struganova	PDF
Phy2048C, Online, Ivan Padron	PDF
Phy2048C, Online, Richard Jerousek	PDF
Phy2049C, Online, Richard Jerousek	PDF

How will I do my online experiments?

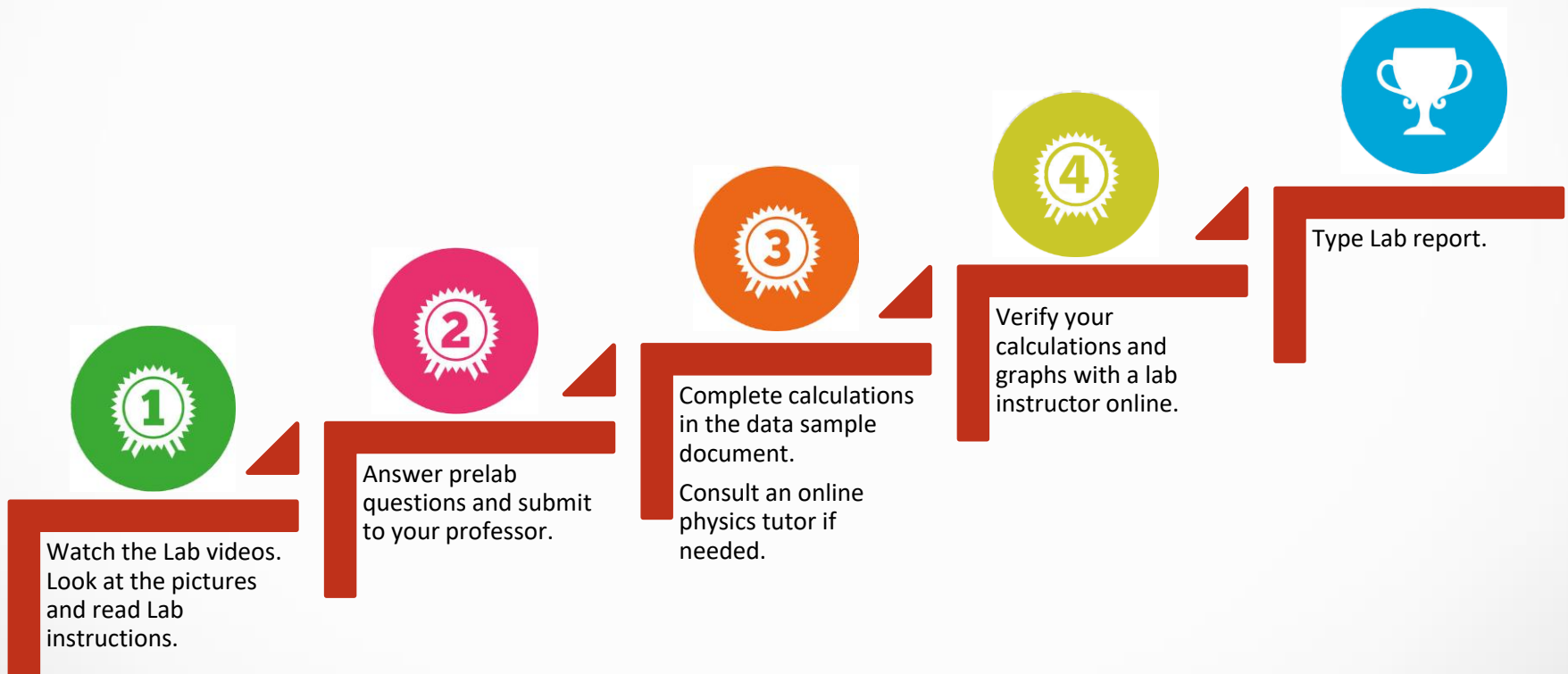


All links to the necessary materials to conduct your experiments will be posted in your canvas course. You can also find access some of these documents and videos by navigating through the physics lab website.

Your professor will assign you to a lab group to work in the experiment calculations. Identify your group and establish communication with the members.

Science West	Home	Physics ▾	Biology	Chemistry ▾
Zoom Setup		Lab Info/ Schedules		
		Experiments		
		Reservations		
EXCEL TEMPLATES				
Mean and Standard Deviation				
Slope and Standard Deviation				
PHYSICS EXPERIMENTS				
(A) Atomic & Nuclear				
(B) Magnetism				
(E) Electricity				
(F) Fluid Mechanics				
(M) Mechanics				
(O) Optics & Light				
(S) Oscillations & Waves				

For each experiment:



What is the data sample document?

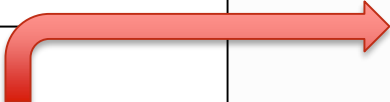
The data sample document will be provided by your professor on canvas. It contains real data collected by following the procedures described in the instructions and videos.

Following the analysis description in the handouts, you will be able to complete the calculations and graphs. An example of a data sample document is shown below.

Data Sheets: T4a: Thermal Expansion

NAME: _____ DATE: _____

Tube Material	Initial Length (m)	Initial Temperature (°)	Final Temperature (°)	Change of length (m)	Thermal expansion Coefficient	Percent Error
Aluminum	0.751	21.875	97.383	0.00139		
Brass	0.751	21.859	98.367	0.00113		
Copper	0.751	22.016	98.180	0.00100		



Calculations that need to be completed

What online assistance can I have while doing calculations?

Besides your professor, you can reach physics tutors in real time in the **Science Tutoring rooms** following this link:

<https://libguides.valenciacollege.edu/c.php?g=1014597&p=7351774>

Check the tutors availability schedule in the following link:

https://docs.google.com/spreadsheets/d/1-h_9Mk3qeellfWkNBFqGym5aJrXa8XwM6P-q139gyo8/edit#gid=361776516


Once you are connected to Science Tutoring, look for one of the following tutors among the tutors assigned for your specific course:




Alejandra Gomez
Monique Anderson

Once you finish your calculations and graphs, book an online section with a lab instructor to validate your data and get approval in real time **This step is required before submitting your calculations to your professor.**

Important Information and Rules for bookings!

 Before attempting to book a reservation, make sure the device that you are using for the booking has **Orlando time and date**. Otherwise, you will receive a wrong time confirmation appointment.

 Reservations to validate the data must be done in groups and it is required that all members are present during the validation section to get credit for the calculations. The sections will have a duration of 30 minutes. The students will be accepted on the meeting during the first 10 minutes only.



Only one reservation should be done at a time. **DO NOT BOOK MORE THAN ONE SECTION** unless it is suggested and approved by the lab instructor.

Online Assistance availability:

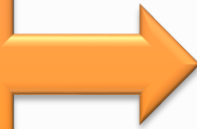
Monday through Thursday from 10:00am until 8:00pm

How can I book a section?

For booking reservations, access the following link:

<https://physics-lab-data-validation.appointlet.com>

Select the
desired
meeting



Select your class based in the CRN number and professor's name. **Be really careful on this selection** because each course has a designed lab instructor.

VALENCIA COLLEGE

1 Meeting Types 2 Members 3 Times 4 Information 5 Review

Select a meeting type

1007C (CRN#13724) Marcién Dentey - Physics Lab Online Data Validation - 30 minute

1007C (CRN#13723) Ivan Padron - Physics Lab Online Data Validation - 30 minute

1007C (CRN#17805) Ivan Padron - Physics Lab Online Data Validation - 30 minute

1 Meeting Types 2 Members 3 Times 4 Information 5 Review

Select a member

Andrea Carvajal >

Select your lab instructor

1 Meeting Types 2 Members 3 Times 4 Information 5 Review

Pick a Date & Time

Timezone: US Eastern (6:30:15 PM)

Aug 18, 2020 - Aug 26, 2020 >

Tue 8/18	Wed 8/19	Thu 8/20	Mon 8/24	Tue 8/25	Wed 8/26
7:30 PM	10:00 AM	10:00 AM	10:00 AM	10:30 AM	10:00 AM
	10:30 AM	11:30 AM	10:30 AM	11:00 AM	10:30 AM
	11:00 AM	12:00 PM	11:00 AM	11:30 AM	11:00 AM

Select the date and time

1 Meeting Types 2 Members 3 Times 4 Information 5 Review

Provide your information

Email *

Student Name *

Partner name 1

Partner name 2

Partner name 3

Course *
 1007C
 2053C
 2054C
 2048C
 2049C

Professor * ▼

Save my information for future bookings

[Continue →](#)

Provide your information

NOTE:
Make sure to add your partners names!

1 Meeting Types 2 Members 3 Times 4 Information 5 Review

Review your information and complete your booking

[Confirm Booking →](#)

TIME US/Eastern
Tuesday, August 25, 2020 11:00 AM - 11:30 AM [Edit](#)

MEETING TYPE
1007C (CRN#13724) Marcien Dentey - Physics Lab Online Data Validation - 30 minute [Edit](#)

MEMBER
Andrea Carvajal [Edit](#)


YOUR INFORMATION

Email	lcarvajal3@valenciacollege.edu	Edit
Student Name	Andrea	Edit
Partner Name 1	--	Edit
Partner Name 2	--	Edit
Partner Name 3	--	Edit
Course	1007C	Edit
Professor	Marcien Dentey	Edit

[Confirm Booking →](#)

Review your information and complete booking

Thanks for booking! Add it to your calendar:



TIME US/Eastern
Tuesday, August 25, 2020 11:00 AM - 11:30 AM

LOCATION
<https://valenciacollege.zoom.us/my/physicslabdatavalidation1>

MEETING TYPE
1007C (CRN#13724) Marcien Dentey - Physics Lab Online Data Validation - 30 minute

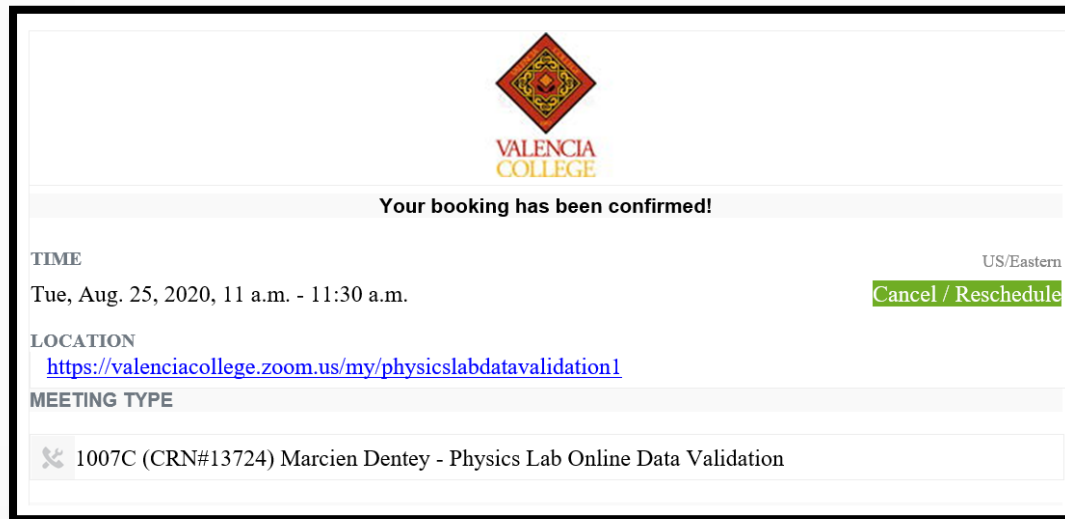
MEMBER
Andrea Carvajal

[Get your own Appointlet page for free](#)

[← Book Another](#) [Done →](#)

Receive your confirmation

NOTE: You will receive an email with your scheduled appointment information. From the confirmation email, you can add the appointment to your calendar and cancel or reschedule the appointment.



The screenshot shows a confirmation email from Valencia College. At the top center is the Valencia College logo, a diamond shape with a red and gold pattern, above the text "VALENCIA COLLEGE". Below the logo is a grey bar with the text "Your booking has been confirmed!". Underneath, the "TIME" section shows "Tue, Aug. 25, 2020, 11 a.m. - 11:30 a.m." and "US/Eastern" on the right. A green button labeled "Cancel / Reschedule" is positioned to the right of the time. The "LOCATION" section contains a blue hyperlink: "https://valenciacollege.zoom.us/my/physicslabdatavalidation1". The "MEETING TYPE" section shows a small icon of a person and the text "1007C (CRN#13724) Marcién Dentey - Physics Lab Online Data Validation".



Connect to
the zoom
room when
is time for
your
appointment

Final Step:

After your data has been validated, it is time to write your lab report and submit to your professor.

