# PHYS 1315 – 200 Introduction to Basic Science

**Instructor: Caylene Caddell**  
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📍 Office hours by appointment

# Course Description

A basic non-laboratory survey course serving to introduce and integrate the

fundamental concepts of Chemistry, Physics, Geology, and Biology. PHYS 1315 does not

satisfy a laboratory science requirement.

# Course Goals

**(1)** Increase vocabulary of scientific terms. **(2)** Improve understanding of science

as it applies to everyday experiences. **(3)** Recognize the importance of various branches

of science and how they relate to each other.

Text and Other Materials: Provided

# Attendance

You are expected to be in attendance at each class meeting - failure to attend class

can result in your being dropped from the class.

# Examination Policy

Four unit exams and the final - exams will be objective in nature and will

include matching, multiple choice, true/false, fill in the blank, and short answer type questions. If you miss an exam, it may be made up during the week following the exam date.

# 💯 Grading Policy

* **4 Unit Exams** (Physics, Chemistry, Astronomy/Geology, Biology) – 20% each
* **Final Exam** – 20%  
  **Total: 100% of your course grade**

📌 Final Grade Scale:  
A = 90–100 | B = 80–89 | C = 70–79 | D = 60–69 | F = 59 and below

# 🗓️ Key Dates – Fall 2025

| **Date** | **Event** |
| --- | --- |
| **August 25** | **First Class Day** |
| **September 1** | **Labor Day – No Class** |
| **September 10** | Official Census Date |
| **October 17** | SPC Fall Break – No Class |
| **November 26–28** | Thanksgiving Holiday – No Class |
| **December 4** | Last day to drop a course |
| **December 8–11** | Finals Week |
| **December 11** | Last Class Day |
| **December 12** | Fall Commencement |

# 📚 Weekly Course Content

| **Week** | **Dates** | **Topics** |
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| Week 1 | Aug 25–29 | Intro to Physics, Ch. 1: Measurement, Ch. 2: Force & Movement |
| Week 2 | Sep 1–5 | **Labor Day Sep 1** – Continue Ch. 3: Force & Energy |
| Week 3 | Sep 8–12 | Review Ch. 1–3; Ch. 4: Work, Ch. 6: Waves |
| Week 4 | Sep 15–19 | Review Ch. 4 & 6, Ch. 7: Wave Effects, Test Review |
| Week 5 | Sep 22–26 | **Test: Physics** + Intro to Chemistry |
| Week 6 | Sep 29–Oct 3 | Ch. 11: Periodic Table, Ch. 12: Compounds, Molecules, Ions |
| Week 7 | Oct 6–10 | Review Ch. 11–12, Ch. 13: Chemical Reactions, Phases of Matter |
| Week 8 | Oct 13–17 | **Test: Chemistry** + Intro to Astronomy/Geology **Fall Break Oct 17** |
| Week 9 | Oct 20–24 | Ch. 16: Solar System, Ch. 25–26: Atmosphere & Effects |
| Week 10 | Oct 27–31 | Review Ch. 16, 25–26; Ch. 20–21: Minerals, Rocks, Structural Geology |
| Week 11 | Nov 3–7 | **Test: Astronomy/Geology** + Intro to Biology |
| Week 12 | Nov 10–14 | Classification, Cell Division, Asexual & Sexual Reproduction |
| Week 13 | Nov 17–21 | Photosynthesis, Respiration, Basic Genetics |
| Week 14 | Nov 24–28 | Genetics Continued + Test Review **Thanksgiving Break Nov 26–28** |
| Week 15 | Dec 1–5 | **Biology Test** + Final Exam Review |
| Week 16 | Dec 8–11 | **Final Exam Week** |