

# PHYSICAL SCIENCE – METEOROLOGY



Learn characteristics of our atmosphere, air pressure and winds, atmospheric moisture, large air masses, violent storms, oceans effects, and climates. The purpose of this course is to develop an understanding of our atmosphere and weather, with an emphasis on the Pacific Northwest. It is a one-term survey course that may be included as part of a year's sequence in physical science for college transfer credit. Taught by a former NOAA-NWS Meteorologist/Hydrologist.

GS-109, CRN 17133 (lecture) and 17134 (lab), 4 credits. Lecture and Laboratory, plus one field trip.  
Dates: Monday and Wednesday, 6 pm – 8:50 pm, **Winter Quarter 2012**, 10 weeks (starting January 9).  
Where: PCC-Southeast Center, 2305 SE 82nd, Tabor Hall—Room 126  
Textbook: Essentials of Meteorology, 6<sup>th</sup> Edition (2012), by Ahrens (ISBN 978-0-8400-4933-9)  
Instructor: Kyle Dittmer, (503) 731-1314 (day), email: kyle.dittmer@pcc.edu

## TOPICS

### Introduction

- Overall picture, atmospheric structure
- Observations; Tools of Measurement
- Energy budget, Heat distribution

### Clouds

- How do Clouds form?
- Types of Clouds, weather significance
- Precipitation process and types

### Atmospheric Motion and Circulation

- Driving and resisting forces
- Vertical changes in air motion
- General, regional, and local circulation
- Air Masses and Fronts

### Weather Forecasting

- Interpreting weather maps
- How to put together a forecast ☺
- How to evaluate a forecast

It's easy to register!

To register by mail or fax, use the form provided. If you have taken a class since January 1998, you may use TRAIL automated phone registration by calling 503-977-4933. You will be asked for your social security number, PIN number (your birth date, [MMDDYY] unless you have changed it) and the CRN numbers for the classes you want to take. TRAIL hours are 7 a.m. - 11 p.m. Monday-Thursday, 7 a.m.- 6 p.m. Friday-Saturday, and 1 to 6 p.m. Sunday.

### You May Be Eligible For a Tax Credit

Based on the Taxpayer Relief Act of 1997, you may qualify for an educational tax credit. For more information, please contact a tax advisor, call the IRS at 1-800-829-1040 or visit the PCC web site at: [www.pcc.edu/enrolling/tax.htm](http://www.pcc.edu/enrolling/tax.htm)

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If you have a disability that requires any special materials, services, or assistance, please contact the Office for Students with Disabilities, 503-977-4341, TTY 503-977-4877, at least 72 hours prior to the first class so we may arrange appropriate accommodations. For general information via TTY, call 503-977-4877.

