

Physics 515 - Data Analysis Techniques

Fall 2015

Course website

<http://coursespaces.uvic.ca>

Assignments and notes will be posted and completed assignments are to be uploaded to this website.

Instructors

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Lecture schedule

Wednesdays	1:30-2:50	Cle C214
Fridays	12:30-1:50	Cle C214

Textbooks

Purchase the Coursepack from the bookstore for the first part of this course.

Course description

An advanced course in data analysis for the physical sciences. The lectures cover probability theory, Monte Carlo methods, statistical analysis techniques, deconvolution, and signal and image processing.

Grading

There will be several assignments and a mid-term exam. The final grade is determined as follows:

assignments	75%
exam	25%

The letter grades are obtained by converting the numerical scores using the conversion table below.

F	D	C	C+	B-	B	B+	A-	A	A+
0-49	50-59	60-64	65-69	70-72	73-76	77-79	80-84	85-89	90-100

Calculator

For the exam, the departmental policy will be followed: On all examinations the only acceptable calculator is the Sharp EL-510R. This calculator can be bought in the Bookstore for about \$10. DO NOT bring any other calculator to examinations.

Programming

The assignments for the first part of the course will require programming in one of: C++, Java, Python, or MATLAB. Other assignments will require programming in MATLAB. You will need to submit your code with your assignments.

Course experience

Near the end of term you will be invited to complete an anonymous survey regarding your learning experience. The survey site is: <http://ces.uvic.ca>