# Physics 515 - Data Analysis Techniques Fall 2017

**Course website** http://coursespaces.uvic.ca
Assignments and notes will be posted and completed assignments are to be uploaded to this website.

**Instructors**

| | | |
|---|---|---|
| Dean Karlen | ELL 217 | karlen@uvic.ca |
| Bob Kowalewski | ELL 204 | kowalews@uvic.ca |
| Jody Klymak | BWC A313 | jklymak@uvic.ca |

**Lecture schedule**

| | | |
|---|---|---|
| Mondays | 11:30-12:50 | ECS 130 |
| Thursdays | 11:30-12:50 | ECS 130 |

**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 written 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 may 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