

Physics 515 - Data Analysis Techniques

Fall 2019

- 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 |
| Justin Albert | ELL 213 | jalbert@uvic.ca |
| Jody Klymak | BWC A313 | jklymak@uvic.ca |
- Lecture schedule** Mondays, Thursdays 11:30-12:50 David Strong Building C114
- 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:
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|-------------|-----|
| 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>