



2022 Faculty Hackathon

Week 3 Updates: Course Descriptions

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Principles of Distributed Software Systems: Comprehensive course in PDC (Spring 2023)

- Course Description: The course explores topics in parallel and distributed programming, platforms, algorithms and applications and design and implementation of distributed software components and include use of large scale computing platforms such as desktop multicore processors, SMPs, message passing platforms, and virtualized cloud computing environments.
- Prerequisites: Data Structures.
- Pre- or Co-requisite: Data Communication, Operating Systems, Unix Programming

Introduction to Programming for Science Majors

- Course Description: Computational problem solving using Python. Introduces skills that will enable students to make productive use of computational tools and techniques of data science for using computation to model and interpret data.
- Prerequisites: Some analytical skills, mathematical background; No programming knowledge is assumed.

Planned Task Lists

- Identify Use Cases
- Course Description
- Create Schedule
- Find textbooks
- Example Exercise
- Explore Resource Needs
- Syllabus Suggestions
- Resources
- Datasets
- Possible Expansion

Next Week

- Identify Use Cases (Chemistry, Engineering) for CS1 course for the sciences
- Develop course description for CS1 course
- Refine course description for PDC course
- Find textbooks and materials for CS1 and PDC

