Practical Introduction to HPC and Research Computing
CAMSA Team

CAMSA
FACULTY-HACK

1. Course Description

- This course is meant to students but also to faculty/staff beyond typical course environments (CSCI 5306)

- The main goal is to create a course that can be flexible in the time/duration from 1 to 16 weeks (1. Adding more training and modules, and 2: Produce customized modules to the different disciplines).

- The course will consist of lectures, practical hands-on homework assignments, and hands-on laboratory work where students will try to build their own scripts to be executed in the HPC environment.

2. Potential resources/pre-reqs

- Resources: HPC websites of public institutions, examples:

  - o https://access-ci.org/

  - o https://hprc.tamu.edu/

- Pre-requisites:

- Ideally, I want pre-reqs to be minimum so that such course can be open to all students and faculties from all disciplines,

3. Identifying Sample Datasets

- https://towardsdatascience.com/ (requires an account)
- Kaggle datasets and codes
- Github repositories
- https://medium.com/
- But those are very broad, I couldn't see things that are more specific, specially per domain of knowledge