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Title: The only constant is change: Maintaining an up-to-date HPC curriculum

Abstract
Teaching high-performance computing (HPC) is exhilarating. The field is (by definition) at the leading edge and is constantly evolving. But the dynamism that make the field so exciting also introduces challenges. Developing new materials for a course is time consuming but for most courses, the expectation is that the startup development cost can be amortized over multiple course offerings. Moreover, acquiring access to an appropriate variety of HPC platforms requires additional investments in instructor time and departmental resources. In this presentation I will discuss some of these challenges in depth, based on a set of recent offerings of High-Performance Scientific Computing at the University of Washington. I will also propose open-source and community-based approaches to mitigate instructional overheads and advocate for academic-industrial-government partnerships for infrastructure access.