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NATIONAL INSTITUTE for TRANSPORTATION and COMMUNITIES

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NITC EDUCATION COURSE: INTRODUCTION TO DATA SCIENCE

A NITC education grant funded a new course for planners, engineers, scientists and students to help improve their data processing workflow.

Executive Summary

Building on the successful scientific computing training program offered by the Software Carpentry (http://www.software-carpentry.org/), this data science course exposes students in transportation research and practice to the best practices in data science through hands-on lab sessions and aims to help students tackle the challenge of "drinking from a hose" when dealing with overwhelming amount of data that is increasingly common in transportation research and practice.

Although computing is now an integral part of every aspect of science and engineering, transportation research included, most students of science, engineering, and planning are never taught how to build, use, validate, and share software well. As a result, many spend hours or days doing things badly that could be done well in just a few minutes. The goal of this course is to change that, so that students can spend less time wrestling with software and more time doing useful research.

PROJECT INFORMATION

TITLE: Introduction to Scientific Computing for Planners, Engineers, and Scientists

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MORE INFORMATION
http://nitc.trec.pdx.edu/research/project/854