

SI 182: Building Applications for Information Environments

Approved for Winter 2008!

An introductory programming course useful to students in all concentrations.

- Assumes no prior programming experience
- Uses free software that can run on any computer
- Software is easy to learn and use
- Focuses on data analysis and data visualization skills
- Skills learned can be used throughout undergrad career and beyond
- Course topics and assignments supported through podcasts
- All lectures and labs taught by the professor

Course Description

This course will focus on the rapid design and development of information-oriented applications. Applications will be developed to gather, analyze, transform, manipulate and publish data. Data will be analyzed from a variety of sources ranging from files to mashed up online data and databases. This course teaches fundamental programming skills in the context of end-user software applications. The course will cover a broader range of topics compared to a traditional introductory programming course and provide students with the ability to manipulate and analyze data. Projects may be drawn from one or more informatics and computing topics including statistics, pattern matching, data mining, social computing, multimedia, and computer games.

Take this...

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NUMBER,STRAIN,(in),STRAIN,(kip-in),(1/in),(kip-in),
(1/in),,NUMBER,STRAIN,(in),STRAIN,(kip-in),(1/
in),(kip-in),(1/in),Moment(k-in),Force(kN),,,,,,
0,0,0,0,0,0,138423.65,0.001288,,0,0,0,0,0,1849
72.84,0.000243,,Service,,0,35924,88.70123457,39
4.7204938,....
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...and turn it into these!

