Using Python to Teach Informatics Majors at University of Michigan

Dr. Charles Severance

www.dr-chuck.com

Pycon2008 Lightning Talk

www.sakaiproject.org

- Sakai Open Source Learning Management System
 - Benevolent Dictator for Three Years
 - Executive Director for One Year
 - Volunteer Developer
- University of Michigan School of Information



informatics.umich.edu





Welcome!

Thank you for your interest in Informatics. The new concentration in Informatics is the result of two years of planning and collaboration by three schools within the University of Michigan: the College of Literature, Science, and the Arts, the College of Engineering, and the School of Information.

Informatics is expected to be available as an undergraduate concentration in University of Michigan's College of Literature, Science and the Arts beginning with the Fall 2008 term. (pending approval of the President)

Abou

Academics

Admissions

Careers + Grad Study

Faculty + Staff

News + Events:

03.26.08

LS&A Concentration Fair Michigan Union Ballroom 11:00 AM - 4:00 PM

04.02.08

Informatics Open House Undergrad Science Building East Atrium

www.si182.com

About SI182 | Book | Course Resources | Course Site | Instructor Page | Python

This is an anonymous view of the course web site on the CTools (Sakai) Collaborative and Learning Environment at the University of Michigan. You would see more information if you were to join the course web site (see About SI182 for more details).



Announcements
Polls
Text Book
Calendar
Site Info
Help

Text Book

Python Programming:

An Introduction to Computer Science

John Zelle

ISBN 1-887902-99-6, \$40.00
Go to John Zelle's Python Page, "<u>Teaching with Python</u>"
Take a look at <u>organizations using Python</u>
Here are some <u>businesses that use Python</u>

DISCOUNT AREA

STUDENT DISKS

ERRATA

TERMS OF SALE

REVIEW COPIES

COMPANY HISTORY

INSTRUCTORS ONLY

CATALOG

CONTACTS

Instructor Review Copy



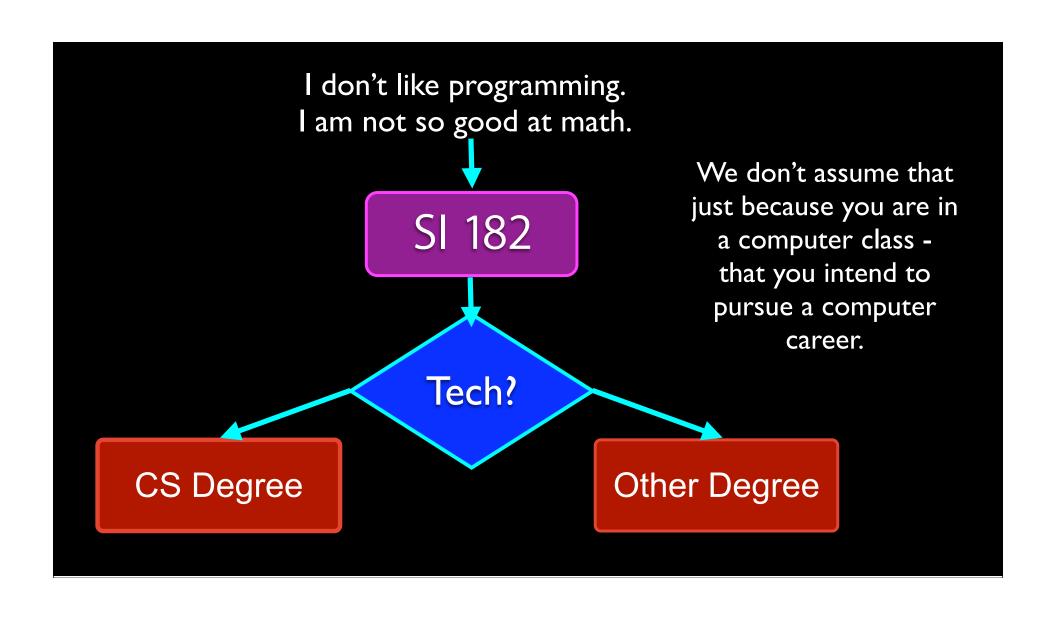
Contents

Foreword, by Guido van Rossum (PDF file)

- 1. Computers and Programs
- Writing Simple Programs PDF file
- Computing with Numbers
- 4. Computing with Strings
- 5. Objects and Graphics PDF file

This book is suitable for use level first course in computin as the increasingly popular c CS0.

It is difficult for many studen basic concepts in computer: programming. A large portion confusion can be blamed on of the tools and materials the traditionally used to teach C\$ This textbook was written will propose the proposet.



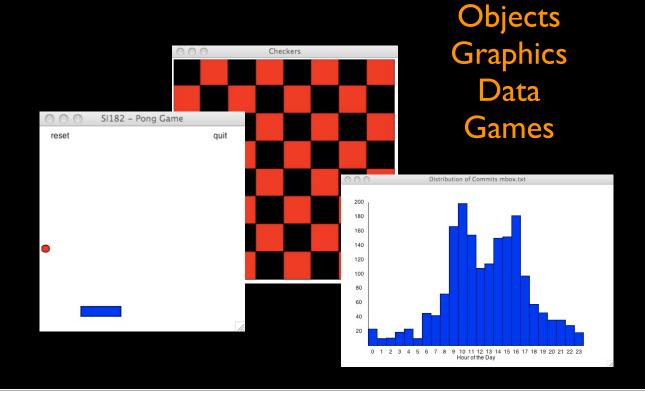
www.si182.com - Cool Bits

- All materials open from the moment of creation
- Course Design Expectation: Gender Friendly and Major Friendly
- Learning community (aka dev list)
- Group Learning Practical In-Lab Exams
- Depth-first Sprint Fill in Gaps Build Comfort

www.si182.com - Themes

Data Sprint:

Variables
Strings
Loops
Files
If
List
Dictionary



Engineering / Computer Science

- Exploring using Python as the first programming course for all Engineering Computer Science Majors
- Already approved Python alternative to long-standing first C source
- Python CSI course will be taught Fall 2008 for the first time