Essential Computing for BioInformatics Using Python

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BioU ► IntroPython_1

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My courses

2011 Summer Institute in Bioinformatics
2011 Summer Institute in Bioinformatics; Bio Track
2011 Summer Institute in Bioinformatics; CS Track
2013 Summer Institute in Bioinformatics
2014 Summer Institute in Bioinformatics
2014 Summer Institute in Bioinformatics, June 16-27
2014 Summer Internship in

Topic outline

1 Instructional Design Table

Outline of Topics (Roadmap)
Learning Objectives

Latest News

Add a new topic...
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Upcoming Events

There are no upcoming events

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2 Presentation Slides

Expressions and Variables
Lists and Sequences
Basics of Functions
Decisions (If-Then-Else Statements)
Boolean Functions
Recursive Functions
Iteration Over Sequences (For Loops)
Finding DNA Patterns
Conditional Iteration
Computational Complexity
Computability: The Nature of Computing

3 Lecture Videos

Installing Python on MacOS
Installing Python on a Windows PC
Expressions and Variables
Lists and Sequences
Decisions (If-Then-Else Statements)
Boolean Functions
Recursive Functions
Iteration over Sequences (For Loops)
Finding DNA Patterns
Conditional Iteration
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- Converting Functions to Command-Line Programs
- Computational Complexity
- Computability: The Nature of Computing

**4 Practice Exercises**

**5 Module Evaluation and Feedback**

**6 Sample Source Code and Data Files**
- MARCFunctions.py
- FastaFunctions.py
- FileExamples.py

**7 Reading Materiales**
- Python Homepage
- Python Downloads Webpage
- Python Official Documentation Webpage

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**Moodle Docs for this page**

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