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| Lecture Topic | Estimated  Hours[[1]](#footnote--1) | Reading Assignment |
| First Steps in Computing: Course Overview | 3 | Lecture Slides, HTCS[[2]](#footnote-0) Chapter 1 |
| Using Bioinformatics Data Sources | 3 | Lecture Slides, BFD[[3]](#footnote-1) Chapters 1-5 |
| Mathematical Computing Models | 3 | Lecture Slides |
| High-level Programming: Basics | 4 | Lecture Slides, HTCS Chapter 1 |
| High-level Programming: Flow Control | 6 | Lecture Slides, HTCS Chapter 1 |
| High-level Programming: Container Objects | 6 | Lecture Slides, HTCS Chapter 1 |
| High-level Programming: Files | 4 | Lecture Slides, HTCS Chapter 1 |
| High-level Programming: BioPython | 6 | [BioPython Tutorial and Cookbook](http://biopython.org/DIST/docs/tutorial/Tutorial.html) |

1. Hours include integrated hands-on work [↑](#footnote-ref--1)
2. How to Think Like a Computer Scientist: Learning with Python [↑](#footnote-ref-0)
3. Bioinformatics for Dummies [↑](#footnote-ref-1)