**Focus** | **Sections** | **Day** | **Class #** | **Date**  
--- | --- | --- | --- | ---  
**Week 1** | Introduction to Course | Wed | 1 | 17 Jan  
| Purpose and Characteristics | 1.1 - 1.4 | Fri | 2 | 19  
**Week 2** | Simple Database | 1.6 | Mon | 3 | 22  
| Simple Database | 1.6 | Wed | 4 | 24  
| **Lab: Bitbucket** | | | | 24  
| Structure of Relational Databases | 2.1 | Fri | 5 | 26  
**Week 3** | Relational Operations | 2.4 - 2.5 | Mon | 6 | 29  
| Relational Operations | 2.6 | Wed | 7 | 31  
| **Lab: Build a ProteinDB** | | | | 31  
| Queries, integrity constraints, primary keys | 2.2 - 2.3 | Fri | 8 | 2 Feb  
**Week 4** | Foreign keys, Query Structure | 2.3 - 2.5 | Mon | 9 | 5  
| Structure of databases | | Wed | 10 | 7  
| **Lab** | | | | 7  
| Structural Queries | 3.2 - 3.3 | Fri | 11 | 9  
**Week 5** | Advanced queries, joins and aggregates | 3.3, 3.4, 3.7 | Mon | 12 | 12  
| Workshop | | Wed | 13 | 14  
| **Quiz1 During Lab** | | | | 14  
| DB Browser, editing tables with SQL code | 3.4 | Fri | 14 | 16  
**Week 6** | Python with SQL | handout, slides | Mon | 15 | 19  
| Python with SQL | handout, slides | Wed | 16 | 21  
| **Lab** | | | | 21  
| Databases with Python | handout, slides | Fri | 17 | 23  
**Week 7** | Databases with Python | handout, slides | Mon | 18 | 26  
| Databases with Python | handout, slides | Wed | 19 | 2 Mar  
| **Exam 1** | | | | 2  
| Automatic populating and querying | handout, slides | Fri | 20 | 5  
**Week 8** | Coding in Django | handout, slides | Mon | 21 | 7  
| Django: views and usage | handout, slides | Wed | 22 | 9  
| **Lab** | | | | 9  
| Intro to XML | handout, slides | Fri | 23 | 14  
**Week 9** | Cancelled Class | | | |  
| Intro to XML | handout, slides | Wed | 23 | 14  
| **Lab** | | | | 14  
| XML | handout, slides | Fri | 24 | 16  
**Week 10** | Spring Break | | | |  
| Spring Break | | | | 19  
| Spring Break | | | | 21  
| Spring Break | | | | 21  
| Spring Break | | | | 23  
**Week 11** | NoSQL, CAP Theory | handout, slides | Mon | 25 | 26  
| Discussion, MongoDB | handout, slides | Wed | 26 | 28  
| **Lab: Quiz2** | | | | 28  
| Mongo DB | handout, slides | Fri | 27 | 30  
**Week 12** | Mongo DB | handout, slides | Mon | 28 | 2 April  
| Mongo DB | handout, slides | Wed | 29 | 4  

**Updated: 1 April 2018**
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<th>Lab</th>
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