

# CSET-205 Advanced Data Integration

## Course Notes Index:

# Week 1

- API Introduction
- Types of APIs
- CURL
- REST Intro
- API documentation
- Semantic Versioning
- Virtualbox / Vagrant

# Week 2

- PHP / Slim
- Unit Testing
- Error Handling

# Week 3

- Integrating APIs
- Imposter Syndrome Video

# Week 4

- API Authentication
- Middleware

# Week 5

- Data Analysis Lifecycle
- Visualizations
- Sampling
- Bias

# Week 6

- Mapping
- GeoJSON

# Week 7

- Python
- Python API / Flask
- Python data analysis matplotlib

# Week 8

- data analysis and rendering labs

# Week 9

- Report Generation (manual)
- Report Generation (Elastic / Kibana)

# Week 10

- Github cleanup
- Elastic / Kibana Cont.

# Week 11

- accessibility
- object oriented programming
- regex

# Week 12

- Exam Review