SI 206 2017 – Data-Oriented Programming
University of Michigan School of Information

COURSE SCHEDULE

W 9/6	Course Introduction, Python 3 language and installation, command line basics
M 9/11 **HW1 Due**	Python basics review, debugging, and testing
W 9/13	Python objects, user-defined types, documentation
M 9/18 **HW2 Due**	Introduction to Git and Github
W 9/21	Unit testing, edge cases and coverage, choosing tests
M 9/25 **HW3 Due**	Regular expressions and pattern matching
W 9/27	HTML/CSS basics
M 10/2 **HW4 Due**	Beautiful Soup
W 10/4	Documentation, READMES and sharing, understanding code
M 10/9 **HW5 Due**	os module, file systems, PATH
W 10/11	Review
M 10/16 **HW6 Due**	*Fall Break*
W 10/18	Using web services, structured data from web services, XML
M 10/23	Introduction to Databases, SQL
W 10/25	More Databases, SQL
M 10/30 **HW7 Due**	Planning projects with web services, API documentation
W 11/1	RESTful APIs, more structured data from web services

M 11/6	Review
W 11/8	**Midterm examination (No discussion sections this week)**
M 11/13 *HW8 Due*	More API wrappers, intro to authentication in web services
W 11/15	Authentication in web services, more APIs with OAuth
M 11/20	Introduction to text processing in Python
W 11/22*	**Thanksgiving - No formal lecture, but I will be available to answer questions.**
M 11/27 *HW9 Due*	TBD
W 11/29	Advanced accumulation, advanced Python structures, iterators
M 12/4	Iterators, generators, solving problems with advanced Python structures
W 12/6	TBD
M 12/11 *HW10 Due*	Work on Final Projects
Friday 12/15	Final projects due by midnight.