

COURSE SCHEDULE (SUBJECT TO CHANGE)

<u>WEEK 1</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 01/22: Wed, 01/24: Fri, 01/26	Intro/Syllabus Article Discussion	Colaboratory Basics Python Fundamentals	Article Essay Due
<u>WEEK 2</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 01/29: Wed, 01/31:	Python Fundamentals II Cell Types	Intro. to Allen Brain Institute Data	
<u>WEEK 3</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 02/05: Wed, 02/07: Fri, 02/09:	Numpy Pandas		Coding Homework #1
<u>WEEK 4</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 02/12: Wed, 02/14: Fri, 02/16:	Conditionals Loops/Functions		Coding Homework #2
<u>WEEK 5</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 02/19: Wed, 02/21:	No Class Cell Types in More Depth	ABI Patch Clamping	
<u>WEEK 6</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 02/26: Wed, 02/28: Fri, 03/01:	Plotting Basic Statistics	ABI Cell Types	Coding Homework #3
<u>WEEK 7</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 03/04: Wed, 03/06: Fri, 03/08:	No Class – Prof. Hallock at Muhlenberg Intro. to Machine Learning		Coding Homework #4/Reflection Essay
<u>WEEK 8</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 03/11: Wed, 03/13:	No Class – Spring Break No Class – Spring Break		
<u>WEEK 9</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 03/18: Wed, 03/20: Fri, 03/22:	Gene Expression Data Spatial Transcriptomics	RNA-Sequencing	Coding Homework #5
<u>WEEK 10</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 03/25: Wed, 03/27: Fri, 03/29:	Single Units Place Fields	<i>In Vivo</i> Electrophysiology	Coding Homework #6
<u>WEEK 11</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 04/01: Wed, 04/03: Fri, 04/05:	Intro. to ROIs Population Dynamics	Calcium Imaging	Coding Homework #7
<u>WEEK 12</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 04/08: Wed, 04/10: Fri, 04/12:	The Event-Related Potential Power Spectral Density	Continuously Sampled Signals	Coding Homework #8
<u>WEEK 13</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 04/15: Wed, 04/17: Fri, 04/19:	Phase Coherence Phase-Amplitude Coupling		Coding Homework #9
<u>WEEK 14</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 04/22: Wed, 04/24: Fri, 04/26:	Neuroimaging Prepare Posters		Posters Due
<u>WEEK 15</u>	<u>ACTIVITY</u>	<u>TOPIC</u>	<u>ASSESSMENTS</u>
Mon, 04/29: Wed, 05/01:	Poster Presentations Poster Presentations		