

# Course schedule

DATE	SESSION TOPIC	HOMEWORK *
09/18	Course introduction / Q&A <sup>†</sup>	
09/25	Project introduction / task assignment	First iteration of code design
10/02	Python basics	First implementation of code
10/09	Algorithm design	Optimize design & code
10/16	<b>MILESTONE REVIEW: Task design</b>	<b>Resolve feedback from mentors</b>
10/23	Version control	Initialize repository & version control your code
10/30	Documentation	Document and annotate your code
11/06	Encapsulation & packaging	Encapsulate & package your code; add CLI
11/13	<b>MILESTONE REVIEW: Repo, executable &amp; docs</b>	<b>Resolve feedback from mentors</b>
11/20	Linting, testing & continuous integration	Lint your code, write tests & set up CI
11/27	Dependency management & containerization	Add dependencies file and Dockerfile
12/04	<b>MILESTONE REVIEW: Final</b>	<b>Resolve feedback from mentors</b>
12/11	Workflows / Nextflow	Write workflow process for your tool
12/28	Course wrap up & demo	

*\* In addition to the listed homeworks, you are expected to read through the materials for the next session, if applicable; in each session, some of you are expected to guide the discussion of the materials*

<sup>†</sup> Virtual session on Zoom: <https://unibas.zoom.us/j/5260402868?pwd=M1V3ZWpqN1ZGcmx6OFBkRW1iR0VKZz09>