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| On  Campus | Saturday  July 9 | Sunday  July 10 | Monday  July 11 | Tuesday  July 12 | Wednesday  July 13 | Thursday  July 14 | Friday  July 15 | Saturday  July 16 |
| **Morning**  Meet at the lab @ 8:30 |  | Outline of course  Intro to bioinformatics  BASH | Field Collection for metabarcoding | DNA extraction of metabarcoding samples  PCR & Library Prep  Sequencing | Field trip/flex day as needed – Monday field collecting may take most of the day | Uploading genomic data to GenBank  Retrieving publicly available datasets  Comparative genomics | Introduction to metabarcoding analysis  QIIME2  Interpreting the metabarcoding analysis of microbial diversity | Depart |
| **Afternoon**  Lunch provided @ 12:30  Instruction until ~5:30 | Arrival/ Orientation | Prep Minion Libraries  Start Sequencing | Field Collection continued…  Assembly and Annotation of bacterial genomes | Genome assembly of MinIon + Illumina  Genome assembly assessment | Rigor and Reproducibility discussion  BASH scripting and RepeatFS | Review of Metabarcoding results  Introduction to R |  |
| Evening  Dinner on your own | In the evenings, as people are interested, we will have optional group discussions about designing and implementing curriculum. | | | | | | | |