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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 | Load 16S on iSeq  Genome annotation and filtering | Comparative genomics  Genome assembly of MinIon + Illumina  Bash scripting | Interpreting the metabarcoding analysis of microbial diversity | Depart |
| **Afternoon**  Lunch provided @ 12:30  Instruction until ~5:30 | Arrival/ Orientation | Prep Minion Libraries & Start Sequencing  Read quality assessment & trimming | Genome assembly & assessment | Retrieving publicly available datasets  Comparative genomics | Introduction to metabarcoding analysis  QIIME2 | Review of Metabarcoding results |  |
| Evening | Dinner on your own | | | | | | | |