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| **DAY** | **DATE** | **TIME** | **TITLE** | **L** | **TYPE** | **Room** |
| Sunday | 18.09.22 | **08:45 - 09:00** | **Welcome to the course and course orientation** | Ben Brumpton | Lecture |  |
| 09:00 - 09:45 | Introduction to genetic epidemiology – context and why it matters | Kristian Hveem | Lecture |  |
| 10:00 - 10:30 | Introduction to genetic variation | Maiken E. Gabrielsen | Lecture |  |
| 10:45 - 11:45 | Introduction to population genetics | Marta Moksnes | Lecture |  |
| 13:00 – 15.30 | PRACTICAL – Genetic variation and terms | Marta Moksnes/ Maiken | Practical |  |
| Monday | 19.09.22 | **08:45- 09:00** | **Good morning and questions** | Ben Brumpton | Lecture |  |
| 09:00 - 09:45 | Introduction to epidemiological principals | Therese H. Nøst | Lecture |  |
| 10:00 - 10:45 | Genomics for the study of complex diseases 1 | Brooke Wolford | Lecture |  |
| 11:00 - 11:45 | Genomics for the study of complex diseases 2 | Brooke Wolford | Lecture |  |
| 13:00 - 16:00 | PRACTICAL - Introduction to data types, QC, data preparation and GWAS | Therese H. Nøst/ Maiken | Practical |  |
| Tuesday | 20.09.22 | **08:45- 09:00** | **Good morning and questions** | Ben Brumpton | Lecture |  |
| 09:00 - 09:45 | Advanced GWAS - Imputation and statistical analysis | Ben Brumpton | Lecture |  |
| 10:00 - 10:15 | Primer on Polygenic risk scores - Background and Theory | Ben Brumpton | Lecture |  |
| 10:30 - 12:00 | PRACTICAL – Construction and analysis of PRS | Therese H. Nøst/ Brooke Wolford | Practical |  |
| Wednesday | 21.09.22 | **08:45- 09:00** | **Good morning and questions** | Ben Brumpton | Lecture |  |
| 09:00 - 09:45 | Mendelian Randomization - Background and Theory | Marta Moksnes | Lecture |  |
| 10:00 - 10:45 | Mendelian Randomization | Ben Brumpton | Lecture |  |
| 11:00 - 11:45 | Mendelian Randomization - cont. from above lecture - bias | Ben Brumpton | Lecture |  |
| 13:00 - 16:00 | PRACTICAL - Mendelian Randomization | Ben Brumpton/ Marta | Practical |  |
| Thursday | 22.09.22 | **08:45- 09:00** | **Good morning and questions** | Ben Brumpton | Lecture |  |
| 09:00 - 09:45 | Meta-analysis – Background and Theory | Brooke Wolford | Lecture |  |
| 10:00 - 11:45 | PRACTICAL - GWAS meta-analysis | Brooke Wolford/Marta | Practical |  |
| 11:45 – 12:00 | **Course close and introduction to NTNU Masters programmes** | Ben Brumpton / Maiken/ Yaqoub | Lecture |  |