

| Date | Title | Lecturer | Content | required knowledge ¹⁾ |
|------------|-------------------------------------|----------|--|----------------------------------|
| 18.09.2017 | Introduction | ES | Overview/Introduction | Ch. 1,22,23 |
| 25.09.2017 | Neurogenesis | ES | Neurulation, generation of cells in the NS, patterning | 22 |
| 02.10.2017 | Axon Growth & Survival | ES | Molecular mechanisms of axon growth and neuronal survival | 23 |
| 09.10.2017 | Axon Guidance | ES | How do axons navigate through the preexisting tissue? | 23 |
| 16.10.2017 | Neural Circuits | ES | Integration of basic mechanisms to neural circuit formation and maturation | 23 |
| 23.10.2017 | Cell Migration | DZ | Mechanisms and importance of cell migration in neural development | 22, 23 |
| 30.10.2017 | Synapse Formation | MM | Molecular mechanisms of synapse formation | 23 |
| 06.11.2017 | Synaptic Plasticity and Homeostasis | MM | How are synapses changing during learning and memory? How is synaptic strength maintained? | |
| 13.11.2017 | Neural Circuits of Behavior | AH | How can we use a simple NS to study the correlation between structure and function? | |
| 20.11.2017 | Adult neural stem cells | SJ | Contribution of stem cells in the adult NS, therapeutic potential of adult stem cells | 25 |
| 27.11.2017 | Neural Development & Sleep | RH | Importance of sleep during neural development, changes in sleep patterns during brain development | |
| 04.12.2017 | Neural Crest Cells | LS | Generation of the PNS, contribution of NC stem cells to neural development and function | 22, 25 |
| 11.12.2017 | Neurodevelopmental Disorders | ES | What are the consequences of aberrant neural development? | |
| 18.12.2017 | Neurodevelopmental Disorders | ES | | |

1) Chapters in Purves et al., Neuroscience, 5th edition