

Appendix 2: Suggested Study Path for Full-time MSN student (1-year, Undeclared Stream)

| Study Plan A | | | | | |
|---------------|---|--|--|------------------------------------|-----------|
| Sem | Courses | | | | CU's |
| A | NS5001* Research Methodology and Ethics (3 CUs) | NS5004** Molecular and Cellular Neuroscience (3 CUs) | NS8002 Advanced Neuroscience (3 CUs) | Elective from NS or BMS (9 CUs) | 18 |
| B | NS5002* Neurobiology of Disease (3 CUs) | NS5003 Neural Basis of Learning and Memory (3 CUs) | Elective from NS (6 CUs) | | 12 |
| Total: | | | | | 30 |

| Study Plan B (Especially for those students planning to take NS6001) | | | | | | |
|--|---|--|--|------------------------------------|---|-----------|
| Sem | Courses | | | | CU's | |
| A | NS5001* Research Methodology and Ethics (3 CUs) | NS5004** Molecular and Cellular Neuroscience (3 CUs) | NS8002 Advanced Neuroscience (3 CUs) | Elective from NS or BMS (3 CUs) | NS6001 Research Project in Neuroscience (6 CUs) | 18 |
| B | NS5002* Neurobiology of Disease (3 CUs) | NS5003 Neural Basis of Learning and Memory (3 CUs) | Elective from NS (6 CUs) | | | 12 |
| Total: | | | | | 30 | |

Elective courses in Semester A:

- NS5007 Human and Artificial Intelligence (3 CUs)
- NS5008 Neuropharmacology (3 CUs)
- NS6001 Research Project in Neuroscience (6 CUs)
- BMS8106 Stem Cell and Regenerative Medicine (3 CUs)
- BMS8110 Genomics and Bioinformatics (3 CUs)

Elective courses in Semester B:

- NS5005* Sensory and Motor Neuroscience (3 CUs)
- NS5006 Cognitive and Behavioral Neuroscience (3 CUs)

Remarks:

* Class will be scheduled in the evening in 2025/2026 academic year.

Lab session will be scheduled on Saturday morning.

Appendix 4: Suggested Study Path for Full-time MSN student (1-year, Human & AI Stream)

| Study Plan D | | | | | | | |
|---------------|---|--|--|---|---|-------------------------------------|-------------------------------------|
| Sem | Courses | | | | | | CU's |
| A | NS5001* Research Methodology and Ethics (3 CUs) | NS5004** Molecular and Cellular Neuroscience (3 CUs) | NS5007 Human and Artificial Intelligence (3 CUs) | NS6003* A Mathematical Introduction to Neural Networks (3 CUs) | NS8002 Advanced Neuroscience (3 CUs) | Elective from NS/BMS (3 CUs) | 15 OR 18 |
| | B | NS5002* Neurobiology of Disease (3 CUs) | NS5003 Neural Basis of Learning and Memory (3 CUs) | NS5009 Ethical Application of Artificial Intelligence in Biological Sciences and Healthcare (3 CUs) | NS6002* Advanced Computational Neuroscience (3 CUs) | | 15 OR 12 |
| Total: | | | | | | | 30 |

| Study Plan E (Especially for those students planning to take NS6001) | | | | | | | |
|--|---|--|--|---|---|--|-----------|
| Sem | Courses | | | | | | CU's |
| A | NS5001* Research Methodology and Ethics (3 CUs) | NS5004** Molecular and Cellular Neuroscience (3 CUs) | NS5007 Human and Artificial Intelligence (3 CUs) | NS6003* A Mathematical Introduction to Neural Networks (3 CUs) | NS8002 Advanced Neuroscience (3 CUs) | NS6001 [△] Research Project in Neuroscience (6 CUs) | 18 |
| | B | NS5002* Neurobiology of Disease (3 CUs) | NS5003 Neural Basis of Learning and Memory (3 CUs) | NS5009 Ethical Application of Artificial Intelligence in Biological Sciences and Healthcare (3 CUs) | NS6002* Advanced Computational Neuroscience (3 CUs) | | 15 |
| Total: | | | | | | | 33 |

Elective courses in Semester A:

- NS5008 Neuropharmacology (3 CUs)
- NS6001[△] Research Project in Neuroscience (6 CUs)
- BMS8106 Stem Cell and Regenerative Medicine (3 CUs)
- BMS8110 Genomics and Bioinformatics (3 CUs)

Elective courses in Semester B:

- NS5005* Sensory and Motor Neuroscience (3 CUs)
- NS5006 Cognitive and Behavioral Neuroscience (3 CUs)

Remarks:

* Class will be scheduled in the evening in 2025/2026 academic year.

Lab session will be scheduled on Saturday morning.

△ Students who choose NS6001 Research Project in Neuroscience are required to pay a total of 33 credit units in tuition fees.