### Programme Structure and Curriculum

#### Trimester 1

**12 AUs**

**CORE (2 AUs each)**

- BS6200 Essential Machine Learning for Biomedical Science
- BS6201 Essential Programming for Biomedical Science
- BS6203 Story-telling with Graphics and Visualizations
- BS6204 Deep Learning for Biomedical Science
- BS6205 Essential Bio-statistics and Bio-mathematics

#### Trimester 2

**9 AUs**

**CHOOSE ONE SPECIALIZATION (3 AUs each)**

**AI Track**

- BS6206 Advanced Computational Thinking for Biomedical Data Science
- BS6207 Advanced Artificial Intelligence for Biomedical Data Science
- BS6208 Biological Big Data

**Bioinformatics Track**

- BS6209 Biological Sequence Analysis
- BS6210 Biomolecular structures: modelling and design
- Select any one specialization module from AI track

**Biotechnology Track** *(Not offered in AY2020)*

- (TBC) Drug Discovery and Development Technologies
- (TBC) High Throughput Technologies and Imaging
- (TBC) Synthetic and Systems Biology

#### Trimester 3

**9 AUs**

**PROJECT WORK (9 AUs)**

- BS6211 Practicum (9 AUs)
  - Research Project in BII, NTU or Industry
  - Industry arrangements requires joint supervision
  - Final report and Thesis Defence

### Assessment and Exams

- Assessment for each module will be based on a final exam and/or continuous assessment which should nominally involve practical (mini project) components.

- The practicum will be supervised by faculty members with inputs from industrial collaborating partners (where applicable). Assessment is performed by supervisor and an examiner based on a final project report and presentation.