



Yong Loo Lin
School of Medicine

STUDY PLAN

MASTER OF SCIENCE IN
PRECISION HEALTH & MEDICINE x
ARTIFICIAL INTELLIGENCE
(MSc PHMxAI)



PROPOSED STUDY PLAN

Students can refer to the following tentative provisional timetable for the programme (all courses are compulsory):

- Please note that all students will take **5 Core Courses + Seminars in the first semester.**
- Students will take **1 Core Course + either 2 or 4 Elective Courses in the second semester (Depending on their Candidature with/without Capstone).**
- Students who undertake the Capstone Project will undertake their project during the second year.

MSc PHMxAI (Without Capstone) - Year 1

Semester 1

5 Core Courses + Seminars

PHM5001 - Human Genomics in Precision Medicine

PHM5002 - Proteomics and Metabolomics in Precision Health and Medicine

PHM5003 - Applied Statistics for Precision Medicine

PHM5005 - AI and Machine Learning for Precision Medicine

PHM5006 - Ethics, Regulation, and Managerial Economics in Precision Medicine

PHM5007 (At least 3 sessions) - Seminars in Precision Medicine

Semester 2

1 Core Course

PHM5004 - High Performance Computing for Precision Medicine

4 Elective Modules from this list

PHM5008 - Clinical Perspective In Precision Medicine

PHM5009 - Precision Oncology

PHM5010 - Precision Biomarkers

PHM5011 - Precision Diagnostics

PHM5012 - Precision Therapeutics

PHM5013 - Precision Drug Discovery and Development

PHM5014 - Causal Inference in Precision Medicine

PHM5015 - Technological Innovation in Precision Medicine

PHM5018 - Precision Health and Medicine for Cardiometabolic Diseases

MSc PHMxAI (With Capstone) - Year 1

Semester 1

5 Core Courses + Seminars

- PHM5001** - Human Genomics in Precision Medicine
- PHM5002** - Proteomics and Metabolomics in Precision Health and Medicine
- PHM5003** - Applied Statistics for Precision Medicine
- PHM5005** - AI and Machine Learning for Precision Medicine
- PHM5006** - Ethics, Regulation, and Managerial Economics in Precision Medicine
- PHM5007** (At least 3 sessions) - Seminars in Precision Medicine

Semester 2 (1 Core Course)

1 Core Course

- PHM5004** - High Performance Computing for Precision Medicine

2 Elective Modules from this list

- PHM5008** - Clinical Perspective In Precision Medicine
- PHM5009** - Precision Oncology
- PHM5010** - Precision Biomarkers
- PHM5011** - Precision Diagnostics
- PHM5012** - Precision Therapeutics
- PHM5013** - Precision Drug Discovery and Development
- PHM5014** - Causal Inference in Precision Medicine
- PHM5015** - Technological Innovation in Precision Medicine
- PHM5018** - Precision Health and Medicine for Cardiometabolic Diseases



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