

MAE Research Programmes Information - Doctor of Philosophy (PhD) / Master of Engineering Degree (MEng) for students from AY2025 intake and earlier

Candidature and Graduation Requirements

To be eligible for the award of a PhD or MEng Degree, a student must fulfil the following conditions:

- Obtain the total AU required for the completion of the programme within a period between the minimum and maximum candidature period stipulated for the programme.
- Fulfil the course requirements for the degree programme.
- Fulfil the minimum Cumulative Grade Point Average (CGPA) for graduation.
- Complete thesis examination and oral defence for the PhD programme, and thesis examination for Master's by Research programme.
- Fulfil 50% of the total AU required with courses from their Academic College (for research programmes except Interdisciplinary Graduate Programme).
- Fulfil the residential requirements (i.e. minimum years of study at NTU) for joint degree programmes.
- Fulfil the minimum AU requirement for letter-graded courses from NTU (for research programmes).
- Satisfy all other requirements prescribed by the programme of study or School.

Curricular and Academic Unit (AU) Requirement

Students are required to complete graduate-level courses as part of their coursework, as follows:

Programme Type	Number of AU required	Important Note
MEng	9 AU	Must complete 9 AU before Qualifying Exam (QE)
PhD	18 AU	Must complete 18 AU before Qualifying Exam (QE)

**Recommended to take School of MAE courses (e.g. MA6xxx, MA7xxx)*

Academic Load

MEng students may register up to 9 AU per term of study, while PhD students may register up to 15 AU per term of study.

Academic Standing

Satisfactory Academic Performance

In any term of study, a research student is deemed to be making satisfactory progress if he meets the following conditions:

- Attain a minimum TGPA and CGPA of 3.00 for Master's programme and 3.50 for PhD programme; and
- Attain at least Grade Point 2.50 (grade C+) in every course; and
- Complete all course requirements within the confirmation period as prescribed under Qualifying Examination.

Unsatisfactory Academic Performance

A research student with unsatisfactory academic performance will be accorded the following academic standing and subjected to performance review:

Programme Type	Academic Warning	Failed to fulfil coursework requirements
MEng	i. TGPA or CGPA < 3.00 in any term of study; or ii. Any course with Grade Point less than 2.50 (below C+ grade)	i. Fail to complete all course requirements within the confirmation period as prescribed under Qualifying Examination; or
PhD	i. TGPA or CGPA < 3.50 in any term of study; or ii. Any course with Grade Point less than 2.50 (below C+ grade)	ii. TGPA < 2.50 in two consecutive terms; or iii. TGPA < 3.00 in three consecutive terms.

Failure to fulfil coursework requirements may result in termination of financial aid and/or academic termination.

Appeal against academic termination on the grounds of extenuating circumstances may be made. The appeal must be submitted to the relevant School within 2 weeks

after the release of course results or before the start of the next term, whichever is earlier. Only one appeal is allowed per candidature.

English courses for Full-time PhD students – HWG703 (Graduate English) & HWG702 (Small Group Teaching)

Full-Time PhD students will be required to take and pass both HWG703 and HWG702. Unless you have been exempted from HWG703, you must register and pass HWG703, before you can take HWG702.

The School will notify students who are granted exemption from HWG703. Students are to register HWG703 via the GSLink – Graduate Course Registration System during Registration Period.

For HWG702, the students will be informed of the registration in due course.

PhD scholars will be **required to pass HWG702 by their Qualifying Examination before they can be granted the S\$500 RSS stipend increment.** Those who have yet to pass HWG702 at the point of their confirmation may proceed with confirmation of candidature without the S\$500 stipend increment till they pass HWG702.

There will be no backdating of stipend increment for these candidates when they subsequently pass **HWG702**. The increment will be affected from the date on which the candidate passes the module.

Epigeum Research Integrity course (ERWA01 now changed to GP8003)

All research students are required to complete the Epigeum Research Integrity Course, ERWA01, **within their first semester**. ERWA01 is a research integrity course with 0 AUs (non-credit) that is applicable to ALL NEW **PhD and Masters (Research) students** who join NTU. The ERWA01 course site will be available on **NTULearn** on the first day of the semester starts.

The **ERWA01 exam will be administered by [RIEO](#)** for all newly registered Postgraduate by Research students.

The exam details are as follows:

Date & Time	14 April 2026 (Tue), 2:00 pm to 15 April 2026 (Wed), 2:00 pm.
Format	Online

Venue	Accessible via the ERWA01 course (now changed to GP8003) site on NTULearn
Workflow	Click here

Postgraduate Research Interdisciplinary Collaborative Core (PGR ICC) course (GP8000: Artificial Intelligence Literacy)

Course Information

Course Coordinator	Prof Erik Cambria
Course Code	GP8000
Course Title	Artificial Intelligence Literacy
Academic Units	NA (Non-credit bearing)
Grading	Pass/Fail
Schedule for AY25 Semester 2	Click here
Target Audience	Compulsory for NEW PhD students (August 2024 intake onwards), Optional for Master by Research students (subject to vacancy availability)

Artificial Intelligence Literacy is a 9-contact hour course consisting of:

- 5 Lectures comprising 4 Modules (hybrid mode, flipped classroom). Each module consists of recorded lecture(s) with individual assessment (MCQs)
- Independent group project (~5-6 students per project)

Group project presentation and discussion:

- **Compulsory** : Briefing Session in Week 3: Introduction to the group project outlines and meeting your group members.
- Optional Tutorials in Weeks 6 and 9: Two sessions for groups to collaborate on their projects and consul with tutors.

- **Compulsory** : Tutorials in Weeks 12 and 13 (2 x 2 hours) : Group project presentations, facilitated discussions, and peer evaluations, including assessments of individual contributions to the group work and presentation.

Course Aims

The Artificial Intelligence (AI) Literacy course aims to give an overview of AI tools, ethical issues as well as applications in both STEM and HSS. This is to equip the postgraduate students with knowledge of AI since AI is the fast becoming an integral component for all industries.

Preparation for Qualifying Examination (QE)

PhD Qualifying Examination (QE)

Coursework requirement	+	Oral presentation	=	Qualifying examination (QE)
------------------------	---	-------------------	---	-----------------------------

1. Students with 6 to 9 AUs of credit transfer/exemption are eligible for the QE, after they complete the remaining AUs of NTU coursework with **CGPA ≥ 3.5** and pass the oral presentation.

2. The timeframe for completing the qualifying examination is within 24 months. However, students are strongly encouraged to complete the coursework requirement and QE within the first 18 months.

MEng Coursework Requirements & Confirmation Exercise

Coursework requirement	+	Confirmation Report	+	Oral presentation	=	Candidature Confirmed
------------------------	---	---------------------	---	-------------------	---	-----------------------

1. Students should obtain 9 AUs with a **CGPA ≥ 3.0**. Of this 9 AUs, a minimum of 3 AUs should be 7xxx series course(s).

2. Confirmation Exercise must be fulfilled in the first 12 months of your Candidature.

Communications / Writing Training for PhD students

PhD students admitted in the AY2019-2020 and beyond, unless being granted waiver, **must complete the compulsory components** of this programme as a **graduation requirement**. The completion is not a pre-requisite for Qualifying Examination.

Compulsory : All PhD students must complete one of the communications courses of 39 training hours. PhD students are expected to take this course between QE and final thesis defence.

- The courses will be Pass/Fail courses. Students can take any one of these courses to fulfil this requirement: [Communications / Writing Training Programme | Graduate College | NTU Singapore](#)

Compulsory: All PhD students must participate in a 3-minute thesis (3MT) presentation symposium before graduation.

- Symposia of 3MT are co-organized by the Graduate Students Associate (GSA) and Graduate College.

Optional: Should students need one-on-one tutoring/mentoring, they can schedule appointments with special tutors at LCC Communications Cube or NIE Grad Centre for individualised feedback on their writing and oral communication skills.

Course Exemption

Submission of Course Exemption Application Form – Fill out form

Please note that course exemption results may be released after the course registration period. As there is no fixed submission deadline, students are encouraged to plan ahead and prepare the necessary documents for submission this semester, so their applications can be considered in the following semester if needed.