2026年度（令和8年度）
中央大学大学院理工学研究科
国立中央大学（台湾）College of Engineering / College of Science
博士課程前期課程ダブルディグリー・プログラム制度案内

本プログラムは、中央大学大学院理工学研究科と国立中央大学（台湾）College of EngineeringおよびCollege of Scienceとの間で締結した博士課程前期課程のダブルディグリー・プログラム実施に関する覚書に基づき実施します。

プログラム参加者は、両大学に在籍し、在籍中に国立中央大学へ1セメスターまたは2セメスター留学します。中央大学および国立中央大学それぞれの修士課程修了要件単位を取得し、修士論文審査を受けて合格した場合に、両大学からそれぞれ学位を授与されます。

1. 受入機関と修了要件

Dept./Inst.	Credits	Course Regulations
Department of Chemical and Materials Engineering	24	1. Students must complete and pass at least three core courses out of six choices, which are Advanced Transport Phenomena, Advanced Chemical Reaction Engineering, Advanced Chemical Engineering Thermodynamics, Materials Physics, Materials Characterization, and Soft Materials. 2. Graduation credits must include completing and passing one course each in the chemical engineering and materials engineering areas listed in the Graduate Courses Classification Table. 3. Students must pass two semesters of Seminar and two semesters of Topics before graduation.
Department of Civil Engineering	24	1. Students are required to register and pass the Seminar in their major field every semester if they graduate within two years in the Master's Program. Students are required to register and pass four credits of Seminar in their major field if they graduate after registering in the Master's Program for more than two years. The credits earned from the Seminar do not count for the credits required for degrees. 2. Students are required to register and pass two credits in the Topic Research before graduation. Students are required to register at the Topic Research every semester from the beginning of the third year of their enrolment in the Master's Program. The credits earned from the Topic Research do not count for the credits required for degrees.
Department of Mechanical Engineering	24	1. Students must complete and pass core courses required in their major field. (Double degree students are not restricted by this provision.) 2. Students must complete and pass Seminar for two semesters. (Double degree students are not restricted by this provision.)
Graduate Institute of Energy Engineering	24	1. Students must complete and pass core courses required in their major field. (Double degree students are not restricted by this provision.) 2. Students must complete and pass Seminar for two semesters. (Double degree students are not restricted by this provision.)
Graduate Institute of Environmental Engineering	24	1. Apart from research courses, undergraduate courses, teaching practicums, and seminars, before graduation, students are required to earn at least twenty-four credits, which include no less than three required courses of the Institute. 2. Double degree students need to take Seminar course for each semester at NCU.
Graduate Institute of Material Science and Engineering	24	1. The core courses of our institute include eight courses: (1) Thermodynamics of Materials (2) Kinetic Process of Materials (3) Advanced Physical Metallurgy (4) X-ray Diffraction and Crystal Structure (5) Materials Physics of Solid (6) Physical Chemistry of Materials (7) Electrochemistry of Materials (8) Mechanical Behavior of Materials; students must pass at least two of them. 2. All students from the joint dual degree system must study the seminar course during their studies. Students with special status approved by the office meeting are not subject to this limit, but they should still meet the minimum graduation credits number of regulations.

		3. Students are required to take the "Monographic Study" course during their studies. Particular circumstances are not limited to those approved by the committee meeting.
Department of Mathematics	24	1. The Master's Program is divided into two groups: Pure Mathematics and Applied Mathematics. Master's students who are admitted into Pure Mathematics (Applied Mathematics) can transfer to Applied Mathematics (Pure Mathematics) as long as they fulfill the graduation requirements. 2. Course Requirements are as follows. (A) Basic courses include Real Analysis, Algebra, Differential Geometry, Differential Equations, Theory of Statistical Inference or Probability Theory, Graph Theory, and Numerical Analysis. All of these are one-year courses. In principle, the basic courses are offered at least once every two years, while Real Analysis and Algebra are offered every year. (B) Advanced courses include Functional Analysis, Algebraic Geometry or Representation Theory or Number Theory, Algebraic Topology, Partial Differential Equations, Discrete Mathematics, Theory of Stochastic Processes, and Finite Element Methods. (C) Core courses for Applied Mathematics in 5 categories: • Differential Equations: Differential Equations I, Differential Equations II. • Numerical Analysis: Numerical Analysis I, Numerical Analysis II. • Discrete Mathematics: Graph Theory I, Graph Theory II. • Probability and Statistics: Theory of Statistical Inference I, Theory of Statistical Inference II, Probability Theory I, Probability Theory II. • Programming: Computer Programming and Application. 3. Master's students admitted into Pure Mathematics must complete at least 15 credits in Basic and Advanced courses. Among these credits, there must be at least 12 credits from Basic courses, and they must include at least one one-year course. In addition, students must take either Real Analysis or Algebra for at least one semester, with a passing grade. 4. Master's students admitted into Applied Mathematics must complete at least 15 credits which course numbers start with MA5, MA6, MA7 or MA8. Seminar courses are not included in these 15 credits. Among these credits, there must be at least 9 credits from two categories of core courses for Applied Mathematics.
Department of Physics	24	1. Graduate students have to earn more than 1 graduate credit at National Central University (excluding the waived credits). 2. Master students should pass at least five courses on non-special topics and 3-credit, whose course numbers start with PH5, PH6, PH7, PH8 or PHT. They have to pass at least two of the following courses: Quantum Mechanics I, Classical Mechanics I, Classical Electrodynamics I, and Statistical Mechanics I. They also have to pass the following obligatory courses: Colloquium I, Colloquium II, Special Topics on Teaching Physics I, or Special Topics on Teaching Physics II. Students cannot graduate without satisfying this requirement.
Department of Chemistry	24	1. Students should complete 24 credits, which includes compulsory courses (15 credits) and elective courses (9 credits). 2. Double-degree program students are eligible to apply for credit transfer, without being subject to the maximum limit of transferable credits and restrictions on transferring advanced courses. 3. Double-degree program students are required to take and pass Thesis Research, Seminar, and Topic Seminar for two to four semesters during their enrollment in NCU. The required credits are subject to the results of the credit transfer.
Department of Optics and Photonics	24	1. Students should complete 24 credits, which includes at least 18 credits from either the master's or doctoral courses, and the other 6 credits can be other graduate courses approved by their thesis instructor before the course selection. 2. The compulsory course for students of the double degree program is the Electro-Optical Semiconductor Physics and Devices. In addition, students must pass two of the following five core courses: Fourier Optics,

		Geometrical Optics, Crystal Optics, Radiation and Detection, Color Science and Technology.
Graduate Institute of Astronomy	24	1. The compulsory courses for students are Observational Astronomy, Stellar Atmosphere, and Structure, Astrophysics of Galaxies, Seminar I, and Seminar II. 2. Students who have taken the courses offered by the graduate institute of astronomy before enrolment can apply for credit in accordance with our credit exemption method.
Graduate Institute of Statistics	33	1. Students must complete 12 credits in compulsory courses. Course requirements are as follows: Mathematical Statistics (4), Statistical Practice (2), Regression Analysis (3), Statistical Computing I (3). 2. Elective courses (18 credits): students have to complete all of the elective courses. 3. Students have to complete Special Topics Research (Thesis, 2 semesters, 1 credit per semester)、Seminar (1 credit/1 semester) and Colloquium (0 credits/4 semesters).

2. 募集対象
   本学大学院理工学研究科博士課程前期課程への入学が決定している者

3. 国立中央大学の授業における使用言語および語学要件
   国立中央大学ではEnglish-based ProgramまたはChinese-based Programを選択する。
   プログラムごとに定める語学要件の、いずれかを満たしている証明書原本の提出が必要。
   - English-based Program
     - TOEFL iBT 70以上
     - IELTS 5.5以上
     - TOEIC L&R and S&W 1,095以上
     - 上記以外の英語検定 CEFR B2レベル相当
     - ✧ 科目リスト:https://cis.ncu.edu.tw/Course/main/query/byEnglish

   - Chinese-based Program
     - 中国語試験(HSK) 5級以上
     - 台湾華語(中国語)能力検定試験(TOCFL) Level3 (B1)以上
     - 上記以外の中国語検定 TOCFL レベル3(B1)相当

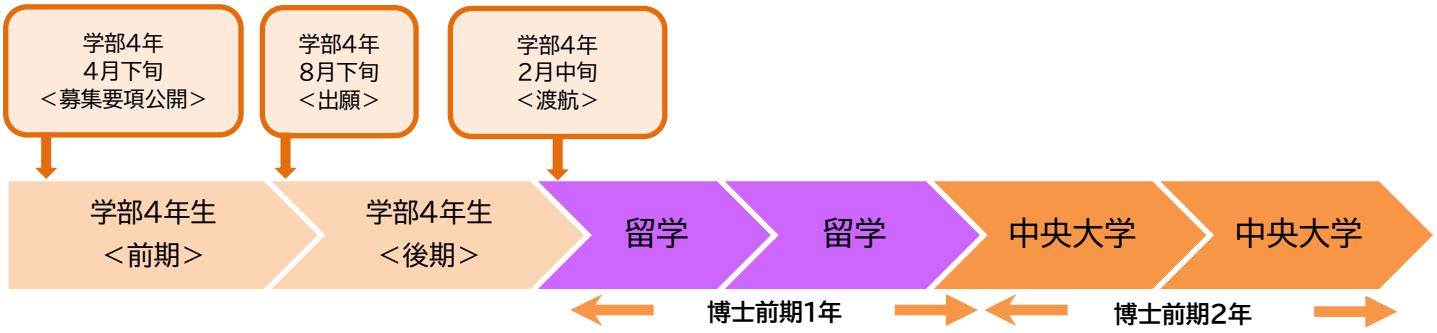
4. 国立中央大学の学年歴
   - 上学期:9月～1月
   - 下学期:2月中旬～6月

5. 授与される学位
   - 中央大学大学院理工学研究科
     修士(理学または工学)

   - 国立中央大学
     Master of Science

6. 留学期間
2セメスターまたは1セメスター

スケジュール(例):2026年4月入学生



7. 履修および単位認定
(1) 本ダブルディグリー・プログラムにおいては、理工学研究科における1単位はNCUの1単位として換算する。
(2) 理工学研究科生はNCUにおいて9単位以上履修する。
(3) NCUで修得した単位は、15単位を上限に理工学研究科の単位として認定することができる。
(4) NCUで修得した単位は、中央大学大学院理工学研究科内規「理工学研究科(博士課程前期課程)学生の国外留学(交換・認定)に伴う単位認定に関する基準」に準じて単位認定を行う。
(5) 中央大学における論文研修科目(論文研修第一～第四)は単位互換の対象とせず、セメスターごとに1科目履修する。理工学研究科生のNCU留学中は、遠隔での指導を行う。

8. 費用
ダブルディグリー・プログラムに参加する学生は、授業その他の学費は原籍大学へ支払い、受入れ大学への支払いは免除される。

9. 登録料
100,000円
※ 上記登録料100,000円のうち50,000円は、「中央大学ダブルディグリー・プログラム登録料に関する大学院生補助費取扱基準」に基づき大学より補助されます。

10. たくみ奨学金
理工学部・理工学研究科では、世界で活躍できる理系人材の育成のため、多くの理工学部及び大学院理工学研究科の学生が在学中にグローバルな学習・研究・研修活動が行えるよう支援をすることを目的とした「たくみ奨学金」の制度があります。ダブルディグリー・プログラムに参加する学生も出願することができますので、ぜひご出願ください。
(1) 給付金額(予定)
博士前期課程 50,000円
(2) 制度詳細について
たくみ奨学金の制度詳細は、中央大学HPよりご確認ください。
https://www.chuo-u.ac.jp/academics/faculties/science/fees_schol/scholarship/

以上