
JOINT PROGRAMS AT DOCTORAL LEVEL - DUAL PH.D. DEGREES

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INTERNATIONAL COLLABORATIVE DEGREE PROGRAMS

- International collaborative degree programs are an increasingly popular approach to internationalizing higher education.
- It took more than a decade since the early programs began in the 1990s, primarily in Europe, for a broader section of the international higher education community to come around to the idea and begin to initiate new collaborative degree programs at

Source: Institute of International Education

<http://www.iie.org/Who-We-Are/News-and-Events/Press-Center/Press-Releases/2014/2014-01-21-Joint-Degree-Book#.WCQb7PI96Uk>

their own institutions.

INTERNATIONAL COLLABORATIVE DEGREE PROGRAMS

- Today, cross-border collaborative degree programs are continuing to gain traction around the world, because they offer opportunities for colleges and universities to build strong institutional partnerships and provide particularly deep and meaningful international experiences to students.

WHAT IS A DUAL DEGREE PROGRAM?

- A dual degree program is based on a formal agreement within one college/university or between separate colleges/universities. Students will divide their study time into two or more periods each allocated to the contracted programs respectively.

DEGREES IN DUAL DEGREE PROGRAMS?

- Students receive the same degree from both institutions;
- Students receive degrees in two different fields.
- Students receive two degrees at two different levels.

BENEFITS FOR STUDENTS

- Cultural enrichment
- Enhanced language skills
- Doubling the network
- An opportunity to mature
- Experiencing another method of learning their branch of knowledge
- The ability to work in international environments
- **Obtaining two degrees which increases their employability**

Source:

1. European Association for International Education

<http://www.eaie.org/blog/international-double-degrees-trouble/>

2. Institute of International Education

<http://www.iie.org/Who-We-Are/News-and-Events/Press-Center/Press-Releases/2014/2014-01-21-Joint-Degree-Book#.WCQb7PI96Uk>

BENEFITS FOR HIGHER EDUCATION INSTITUTIONS

- Increasing satisfaction of students.
- Increasing alumni working in companies all over the world.
- Links between both institutions are reinforced.
- Creating further chances to other degrees of collaboration.
- Strengthening research collaboration.
- Advancing internationalization and raising the institution's international visibility.
- Increasing revenues in some cases

Source:

1. European Association for International Education
<http://www.eaie.org/blog/international-double-degrees-trouble/>
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CHALLENGES FOR ESTABLISHING DUAL DEGREE PROGRAMS

- Alignment of regulations and customs

National and institutional regulations and customs differ from country to country.

- Quality assurance

It is more difficult to assure the quality of courses offered by a partner university.

CHALLENGES FOR ESTABLISHING DUAL DEGREE PROGRAMS

■ Language

Courses may be offered in two or more different languages, if multiple partners are involved.

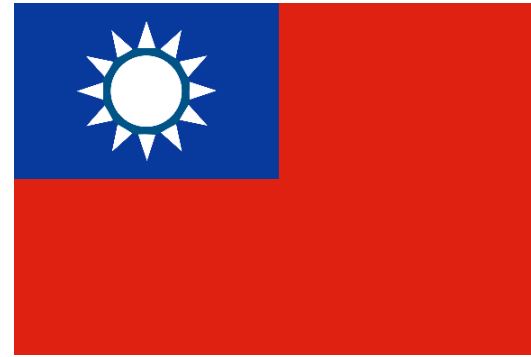
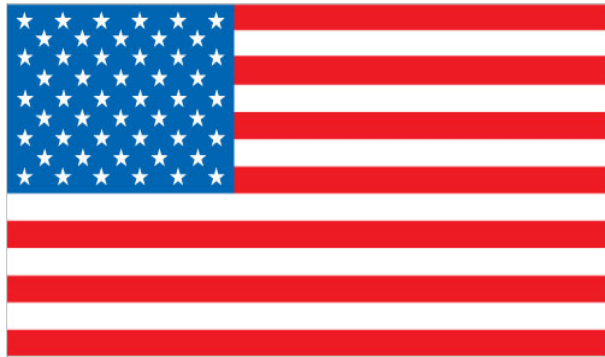
■ Fees and financing

In countries that do not charge tuition fees, the extra costs must be borne by the institutions.

KEY FACTORS FOR SUCCESSFUL DUAL DEGREE PROGRAMS

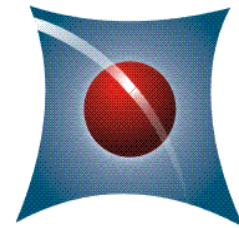
- A successful degree has to be attractive to both students and employers.
- The program must be carefully designed.
- The syllabus and the strengths of both degrees must not be equal but complementary (specializations, internships, lab training, etc.).
- A strong commitment is essential.

DUAL PH.D. DEGREES IN CIVIL/ENVIRONMENTAL ENGINEERING IN UNITED STATES AND TAIWAN



DUAL PH.D. DEGREES IN CIVIL/ENVIRONMENTAL ENGINEERING

- Students at **National Chung Hsing University** and **University of Delaware** may pursue dual Ph. D. degrees in Civil/Environmental Engineering offered by both universities.



UNIVERSITY OF DELAWARE



- The University of Delaware was founded in 1743. It is one of the oldest universities in the United States.
- The University of Delaware is a research-focused university with a wide array of programs.
- The University of Delaware offers more than 80 study abroad programs in over 40 countries. More than 30% of UD students study abroad each year.

UNIVERSITY OF DELAWARE

- According to a 2010 National Research Council (NRC) study of doctoral programs in the United States, UD's doctoral programs in civil and environmental engineering rank 17th nationwide in terms of "research activity."
- Fall 2015 unduplicated enrollment totals 22,852. In 2015-16, there are 1,207 full-time faculty positions and 4,343 total employees.

Source: The University of Delaware
<https://www.udel.edu/about/facts-figures/>
<http://www.ce.udel.edu/home/index.html>



APPLICATION REQUIREMENT

- Students must meet a campus residency requirement of at least one continuous academic year at the students' university of origin before they can apply and be admitted to the graduate program of the partner university considered for the program.
- Application deadline: October 1 and April 1



ACCEPTANCE OF EQUIVALENCE OF COURSES

- Each university will accept completed course units from the other institution towards general graduation requirements. Such units will be recorded on NCHU transcript and/or UD transcript as transfer credit.
- The determination and applicability of specific units towards specific graduation requirements rests with the department or college of the student's major.



EXAM AND DISSERTATION

- Students must be assigned an advisor from the Department of Environmental Engineering at NCHU and the Department of Civil and Environmental Engineering at UD, both of which must be included in student's Doctoral Committee.



EXAM AND DISSERTATION

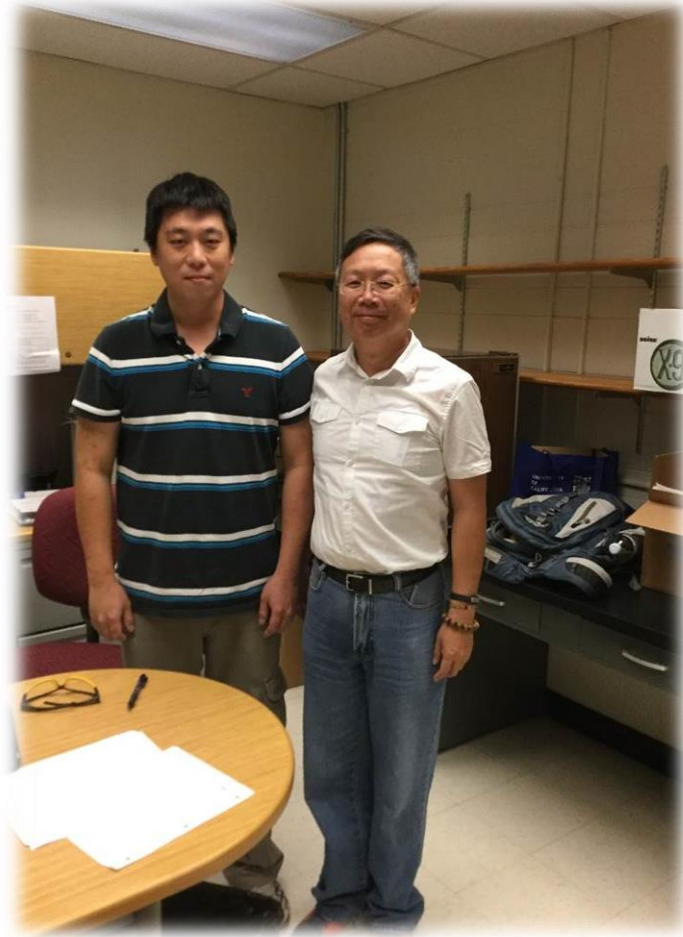
- Students must pass the following exams/procedures from either the Department of Environmental Engineering at NCHU or the Department of Civil and Environmental Engineering at UD.
 1. Ph. D. qualifying exam
 2. Ph. D. dissertation proposal
 3. Ph. D. dissertation defense



EXAM AND DISSERTATION

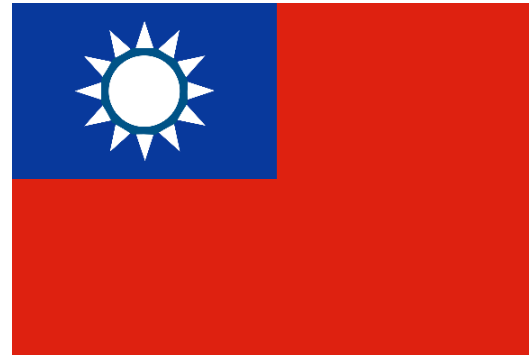
- The Ph. D. dissertation proposal must be approved by all members of the dissertation committee.
- The Ph. D. dissertation should be completed in English with the abstract written in both Chinese and English.
- The whole or part of the dissertation must be transferred to an article accepted by a journal listed in the Science Citation Index (SCI) or Social Sciences Citation Index (SSCI) before the student can take his/her dissertation defense.

A STUDENT RECEIVED DUAL PH.D. DEGREES



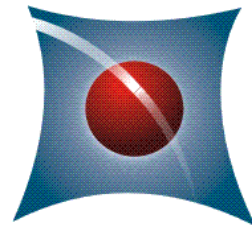
A UD Lab Manager with Dual Ph. D. Degrees (Left).

DUAL PH.D. DEGREES IN FRANCE AND TAIWAN



DUAL PH.D. DEGREES

- Students at **National Chung Hsing University** and **Agro Paris Tech** may pursue dual Ph. D. degrees offered by both universities.



Agro Paris Tech



- Agro Paris Tech was founded in 2007 by the three following Graduate Institutes in Science and Engineering:
 - ▣ INA P-G - Institut National Agronomique Paris-Grignon
 - ▣ ENGREF – Ecole Nationale du Génie Rural, des Eaux et des Forêts
 - ▣ ENSIA – Ecole Nationale Supérieure des Industries Agricoles et Alimentaires
- Agro Paris Tech is a higher education teaching and research institute (Grande Ecole) in the fields of agronomic sciences and techniques, the agri-food sector, forestry, management of spaces and natural resources and land management and development

Source: AgroParisTech

<http://www.agroparistech.fr/Presentation-of-AgroParisTech.html>

Agro Paris Tech

- QS Top University ranking in the field of “Agriculture & Forestry” in 2016:
 - 5th Worldwide
 - 2nd in Europe
- There are 2,000 students (20% international), 400 Ph. D. students (40% international), 230 academic staff members, 24 joint research units and 8 campuses (4 in Paris and the greater Paris area) .



APPLICATION REQUIREMENT

- Students must study at least two semesters at the students' university of origin before they can apply and be admitted to the dual Ph. D. degree programs.



COURSES AND DISSERTATION

- Students can waive the credits be earned in partner university.
- Students can have co-advisor in partner university for the dissertation.
- Students must study minimum 24 months and obtain at least 1/3 credits in each university.



Source: National Chung Hsing University

<http://www.oia.nchu.edu.tw/index.php/tw/about-tw/regulation-tw/215-2016-03-25-04-02-29>

RESEARCH

- Students have chances to learn with researchers at local research institutions (e. g. Institut National de la Recherche Agronomique, INRA) and present their research works in conferences.



A Taiwanese Ph. D. Student and her advisor from INRA attended a conference in France. (17ème et 18ème séminaire ds Thésards du Département de Génétique Animal)



A Taiwanese Ph. D. student presented research works at Journées ABIES which was hold by Agro Paris Tech.

INTERNATIONAL EXPERIENCES

- Students can obtain international working experiences and learn more about European culture in the dual Ph. D. programs.



A Taiwanese Ph. D. student joined a Christmas party in France.

DUAL PH. D. DEGREE PROGRAMS IN NATIONAL CHUNG HSING UNIVERSITY

University	Department
University of Delaware (USA)	Civil/Environmental Engineering
Utah State University (USA)	Soil and Environmental Sciences
Agro Paris Tech (France)	All
Czech Technical University in Prague (Czech Republic)	Mechanical Engineering

Source: National Chung Hsing University

Thank you for listening!

