

PhDIS PROGRAM CURRICULUM

What is the PhDIS Program?

- PhDIS is an **entrepreneurial program** that allows students with a BS or MS degree to pursue their dreams in developing a product that can be used to create a new business opportunity.
- PhDIS is a truly multi-disciplinary program where students with diversified current backgrounds can pursue the dream of **building their own solutions to the world's most challenging problems**.

PhDIS Program Deliverables

- The PhDIS delivers a powerful program designed to create experts in researching real life challenging problems and provide innovative solutions for such challenges.
- Fields of specialization could be related to Healthcare, Manufacturing, Transportation, Education, Social, etc.
- ITU's PhDIS program is offered as an innovative and flexible blended learning journey, in a global model setting, with live residencies to network with cohort peers, professors, and expert industry mentors.

PhDIS Program Learning Style

- The world is becoming **increasingly connected** with technological advances and social media.
- More than ever before, **people are increasingly aware and interested to learn about technology, and its interactions with various aspects of global business**.
- To accommodate the needs of the people resident in the U.S. and across the globe, **ITU offers the PhDIS program in a global, blended learning format**.

Delivery of the PhDIS Program

- Both Synchronous and Asynchronous delivery style will be used.
- Delivering a Chinese language course work program can be done at least in three ways:
 1. Completely **Asynchronous** courses that can be uploaded through ITU own software, called EMS (Education Management System).
 - These courses need to be translated into Chinese and student answers are to be translated and uploaded into EMS for feedback and grading.
 2. **Live course teaching** in English though Zoom with live translation.

- We tried several sessions of this style with China-based students and the results have been excellent.
3. A combination of the above two methods, based on student's' preferences and availability.

PhDIS Program Structure

→ To be awarded the degree of PhDIS in Strategic Innovation & Entrepreneurship, **you must successfully complete forty-eight (48) credit hours minimum.** It includes the following requirements:

- a. **A Three-Year Program minimum**
- b. **A total of 48 credits minimum. It includes:**
 - 1. **Course Work (30 credit)**
 - 2. **Publications & Thesis Work (18 credit)**
- c. **Residencies:** The PhDIS program requires three (3) residencies.

The following required inbound and outbound examinations will be suspended until such a time that: 1) a suitable Mandarin-based substitute exam is found to accomplish the same assessment purposes of the "Peregrine" exams, or if Peregrine itself has a Mandarin equivalent, and 2) the exam cost is roughly equivalent and acceptable (under US\$200). It is understood by both parties that this cost is to be paid for by the students and it will be made known to the students that if such exams become required, they will shoulder the cost of the required assessment exams for the purposes of ITU's accreditation.

PEREGRINE INBOUND EXAM

PhDIS students are required to take an Inbound exam with Peregrine Academic Services. The Inbound exam is mandatory and should be taken in the first trimester. This Inbound exam is REQUIRED (as described above) and NOT OPTIONAL for all other students.

PEREGRINE OUTBOUND EXAM

All PhDIS students are required to take an Outbound exam with Peregrine Academic Services. The Outbound exam is mandatory and should be taken in the 6th trimester before starting the Culminating Experience (CE) course.

This Outbound exam is REQUIRED for all students and not OPTIONAL.

EXAM FEES

The Inbound and Outbound Exams cost \$40 each (subject to change). The fees are paid directly by the student to Peregrine Academic Services upon registering for the relevant exam.

Coursework (i) Core Courses

6 courses for a total of 18 credit hours

- PhDIS 800 Quantitative Research Analysis I (3 credit hours)
- PhDIS 801 Quantitative Research Analysis II (3 credit hours)
- PhDIS 802 Qualitative Research Analysis I (3 credit hours)
- PhDIS 803 Qualitative Research Analysis II (3 credit hours)
- PhDIS 804 System Engineering I (3 credit hours)
- PhDIS 805 System Engineering II (3 credit hours)
- PhDIS 806 Peregrine APA Write & Cite (0 credit hours)

(ii) Innovation Specialization Courses

3 courses for a total of 9 credit hours

- PhDIS 810 AI & Data Science Applications (3 credit hours)
- PhDIS 811 Data Visualization (3 credit hours)

- PhDIS 812 Data Cloud Design & Implementation (3 credit hours)

(iii) Key Competency Courses

2 courses for a total of 6 credit hours

- PhDIS 820 Theoretical Frameworks in Strategy Research (3 credit hours)

- PhDIS 821 Research Design (3 credit hours)

Contribution to the field of Interdisciplinary Science

Seminars and/or Conferences

- PhDIS 710 Special Interest Seminars and/or Conferences (0 credit hours)

Students should complete at least four (4) Seminars and/or Conferences (free or paid) in the area of their research interest. Students should start attending seminars and/or conferences from the very start of their doctoral program. The requirements for seminars and/or conferences must be completed prior to the final CCP presentation (i.e. PhDIS 822), which will occur in the third residency. Students may attend more than four seminars and/or conferences based on their interest.

Comprehensive Candidacy Portfolio (CCP)

- PhDIS 711 CCP Panel Presentation I (0 credit hours)
- PhDIS 813 CCP Panel Presentation II (0 credit hours)
- PhDIS 822 CCP Final Panel Presentation (0 credit hours)

The student from the start of his/her doctoral program develops the CCP, under the guidance of the doctoral supervisor(s) and/or mentor(s) in three stages. The CCP represents a student's goals, plans, and accomplishments in coursework, special topics, learning from seminars and/or conferences, research and work experiences. The process includes three (3) presentations by each student to a committee, which

includes the faculty teaching the courses at the time of presentation and/or the external mentor. ITU tries to choose professors who can speak Chinese to be responsible for the teaching of this PhDIS program.

These presentations will be scheduled as follows:

CCP Presentation I – Term 2 of Year 1

CCP Presentation II – Residency 2

CCP Final Presentation – Residency 3

Culminating Experience (CE)

Candidates must choose one of the following three (3) doctoral capstone courses. Each of these courses is equal in terms of academic rigor.

Doctoral Capstone Research (PhDIS 901), OR

Doctoral Capstone Project (PhDIS 902), OR

Doctoral Capstone Publishable Papers (PhDIS 903) (3 publishable papers)

Each capstone course consists of three (5) sections for a total of 15 credit hours

PhDIS 901 – 1 Doctoral Capstone Research 1 (3 credit hours)

PhDIS 901 – 2 Doctoral Capstone Research 2 (3 credit hours)

PhDIS 901 -- 3 Doctoral Capstone Research 3 (3 credit hours)

PhDIS 901 – 4 Doctoral Capstone Research 1 (3 credit hours)

PhDIS 901 – 5 Doctoral Capstone Research 2 (3 credit hours)

OR

PhDIS 902 – 1 Doctoral Capstone Project 1 (3 credit hours)

PhDIS 902 – 2 Doctoral Capstone Project 2 (3 credit hours)

PhDIS 902 -- 3 Doctoral Capstone Project 3 (3 credit hours)

PhDIS 902 – 4 Doctoral Capstone Project 1 (3 credit hours)

PhDIS 902 – 5 Doctoral Capstone Project 2 (3 credit hours)

OR

PhDIS 903 – 1 Doctoral Capstone Publishable Papers 1 (3 credit hours)

PhDIS 903 – 2 Doctoral Capstone Publishable Papers 2 (3 credit hours)
PhDIS 903 - 3 Doctoral Capstone Publishable Papers 3 (3 credit hours)

PhDIS 903 – 4 Doctoral Capstone Publishable Papers 1 (3 credit hours)

PhDIS 903 – 5 Doctoral Capstone Publishable Papers 2 (3 credit hours)

Each of these courses requires the candidate to work on his/her doctoral proposal.

Advisory Committee

- To guide students through the degree program, an advisory committee of at least three (3) faculty members with appropriate doctoral degrees, and an external mentor with subject matter and industry expertise, will be assigned.
- The **Advisory Committee** also may serve as the **Doctoral Capstone Committee (DCC)**, which may include the Department Chair.
- The doctoral capstone course advisor will serve as the chair of DCC.
- The DCC will review the proposed doctoral capstone topic, determine any further changes, and approve the research objective.

Doctoral Capstone Proposal

- This is a **formal written proposal**, which must include a clear statement of the problem to be researched and a survey of the relevant literature.
- The proposal **must specify the research methods, data collection, and data analysis techniques in detail**. The methods to be employed must be appropriate, and reliable.
- In the event the DCC recommends additional work on the proposal, the candidate will have one more chance to present and defend his/her doctoral proposal, no later than six (6) months from the original presentation.

Doctoral Capstone Defense

- Upon successful presentation of the doctoral proposal, the candidate will progress to the development of his/her chosen doctoral capstone.
- The candidate will be required to **defend his/her final doctoral capstone in the presence of the DCC**. The final capstone document(s) must be made available to all members of the DCC one (1) month prior to the defense.
- The **oral defense will take place in the final term of the third (3rd) year**. It shall consist of a presentation of the research results and a question and answer (Q&A) session following the presentation.
- **The defense is open to the public, but only members of the DCC have a vote**. The doctoral capstone defense passes through unanimous voting.

