

Program of Learning Sciences

Contact Information

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Introduction

The Program of Learning Sciences was established at National Taiwan Normal University to cultivate professionals in the field of learning sciences, including data scientists, data analysts, data engineers, and software engineers whose aim involves researching and improving the human learning experience. This program is currently the first of its kind in Taiwan.

The Program of Learning Sciences collaborates with the Graduate Institute of Library and Information Studies, Graduate Institute of Information and Computer Science, Department of Educational Psychology, and Department of Education, so in addition to regular classroom activities, students can also make use of facilities such as future classrooms, an eye movement lab, brain wave lab, digital archives and E-publishing lab, information literacy and E-learning lab, and a virtual reality classroom (project under planning).



Instructional Objectives

1. Cultivate professionals in the field of learning sciences
2. Innovate new forms of research and applications of learning
3. Develop students' integrated knowledge and skills among the fields of statistics, programming, data mining and analysis, learning psychology and data information.

Degree Requirements

The total credit hours required for graduation is 128.

In addition to the core curriculum, this program is module based and divided into three modules: learning science, information science, and data science. Students have to choose two of the three modules and complete four related classes so that the interest and specialization of each individual student can be nurtured. In order to shorten the gap between theory and practice, this program offers capstone courses and internship courses as compulsory courses in each module. These courses are organized by the program office, with faculty offering assistance throughout.

Feature of the Curriculum

The Program of Learning Sciences focuses on the convergence of learning technology, data science and information science. It offers faculty and learning resources from the Graduate Institute of Library and Information Studies, Graduate Institute of Information and Computer Science, Department of Educational Psychology and Counseling, and Graduate Institute of Science Education.

Career Prospects

1. This program addresses global trends calling for professionals in information and data related fields, such as software designers, data analysts and game designers.
2. This program leads by developing innovative research and applications of learning.
3. Graduates of this program can work in fields that require data science and information science such as government agencies, medical institutions, banks, NGOs, or in the fields of technology, communication, or marketing.