

Instructional Design of Information Study 2

Teacher Licence
Subjects Requisites
2 credit

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1. Course Description

In this course, students aim to acquire the necessary knowledge and skills to teach "Information". First, students review what they learned in "Instructional Design of Information Study 1" such as goals and contents of information education in secondary schools, instructional design, learning assessment, and so on. Then, they will consider how to teach network, information system, database and data analysis. In the latter half of the course, students will write a teaching plan, conduct a trial lesson, and reflect the lesson. Through these activities of designing and conducting trial lessons, students will acquire knowledge and skills as a teacher.

2. Course Objectives

This course aims to improve students' understanding of information education in secondary schools as the follow-up to the subject "Instructional Design of Information Study". Students are expected to be able to conduct lessons of course "Information".

The specific goals for students are the following:

- To be able to explain educational goals and philosophy of information education in elementary and secondary education.
- To be able to explain learning contents in common subjects "Information".
- To be able to write a plan to teach a part of "Information Study by Scientific Approach" based on the idea of instructional design.
- To be able to prepare teaching materials and conduct a lesson based on the teaching plan.

3. Grading Policy

The criteria for passing are to be accepted all required reports. The feedback on reports are given during classes. The final grade of students who passed will be calculated according to the following process: presentation and discussion in each class 20%, reports in each class 20%, trial lessons 40%, and final report 20%.

4. Textbook and Reference

Textbook

MEXT Teaching guides for the courses of study "Information" MEXT(2018)
(https://www.mext.go.jp/content/1407073_11_1_2.pdf)

Information Study by Scientific Approach Tokyo Shoseki Co., Ltd.

MEXT Learning material for teachers on information subject at high school "Information I" MEXT (2019)
(https://www.mext.go.jp/a_menu/shotou/zyouhou/detail/1416756.htm)

5. Requirements(Assignments)

The theme and action items of each class will be announced one week in advance. Students are required to do designated reading task, investigation or preparation of presentation before each class. It will take two hours. After each class, students are expected to review the class. It will take one hour.

6. Note

The course is conducted in Japanese.

7. Schedule

- [1] Introduction and review on Instructional Design of Information Study 1.
- [2] Instruction on "Information and telecommunications network"
- [3] Instruction on "Information system and database"
- [4] Instruction on "Quantitative data analysis"
- [5] Instruction on "Qualitative data analysis"
- [6] Instructional design and how to write teaching plans.
- [7] Investigation of practical research on education.
- [8] Presentation of practical research on education.
- [9] Study of learning materials for trial lesson (digitization)
- [10] Instructional design and teaching plan for trial lesson (digitization)
- [11] Trial lesson and peer review(digitization)
- [12] Study of learning materials for trial lesson (database)
- [13] Instructional design and teaching plan for trial lesson (database)
- [14] Trial lesson and peer review(database)
- [15] Review and final report.