[Outline and Purpose of the Course]

I. Course Description
The understanding of GLP (Good Laboratory Practice) is essential for toxicology study. The course is aimed to provide the basis of modern toxicology research. In addition, advanced toxicology for toxicokinetics and chemical analysis will be given in the latter half of the course.

[Course Goals]

II. Course Goals and Objectives
Knowledge of GLP
Knowledge of toxicokinetics and mathematical models
Knowledge of chemical analysis
Skill to audit toxicological research

[Course Schedule and Contents]

Course Schedule
1Oct 6Orientation
2Oct 13GLP  General Provisions and Organization and Personnel
3Oct 20GLP  Facilities and Equipment
4Oct 27GLP  Testing Facilities Operation and Test and Control Articles
5Nov 10GLP  Protocol for and Conduct of a Non-clinical Laboratory Study
6Nov 17GLP  Records and Reports
7Dec 1GLP  Disqualification of Testing Facilities
8Dec 8GLP  Timing of Pre-clinical Studies in Relation to Clinical Trials
9Dec 15GLP  Preclinical Safety Evaluation of Biotechnology-Derived Pharmaceuticals
10Dec 22GLP  Safety Pharmacology Studies for Human Pharmaceuticals
11Jan 5Toxicokinetics 1
12Jan 12Toxicokinetics 2
13Jan 19Research ethics
14Jan 26Chemical analysis 1
15Feb 2Chemical analysis 2

[Class requirement]

Elective.

[Method, Point of view, and Attainment levels of Evaluation]

III. Methods of Instruction
Lecture

Continue to 中毒学(2)
Small group teaching and discussion

[Textbook]
Instructed during class
IV. Course Text and Readings
2. Lu's BASIC TOXICOLOGY 4th edition Frank C. Lu and Sam Kacew, Taylor and Francis, 2002

[Reference books, etc.]
(Reference books)

[Regarding studies out of class (preparation and review)]
V. Course Grade
Attendance and active participation 50%
Presentation 50%

(Others (office hour, etc.)
Credits of Introduction to Toxicology and Occupational health and environmental health sciences are required.

*Please visit KULASIS to find out about office hours.