

## Advanced Course in Disease Control and Molecular Epidemiology

Lecture/Lab. Academic year 1,2 credits 2,4

[Keywords] Health promotion, disease prevention, epidemiology, molecular epidemiology, public health

[Academics] Itsuo Chiba, Hirofumi Matsuoka

### [Course aims]

This course deals with public health surveys about social, behavioral, legal, ethical, epidemiologic, and biostatistic studies—which are related to medicine. Therefore, priority is given to investigations in microbiology, epidemiology, and molecular epidemiology; it is also given to research about health politics, and healthcare conditions, and the prevention of diseases—both inside and outside of Japan.

### [Course objectives]

The goals of this course are to be able to explain the prevention of diseases, based on the knowledge of:

- (1) Histopathology and molecular biology.
- (2) Microbiology and immunology.
- (3) Epidemiology.
- (4) Public health.
- (5) Global health.
- (6) Make a social contribution by obtaining knowledge about foreign languages.

### [Course content]

Class	Theme	Content	Academics
1	Classroom lectures	epidemiology and statistical analysis	Itsuo Chiba Hirofumi Matsuoka
2	Laboratory courses focused on understanding histopathology and molecular biology		Itsuo Chiba Hirofumi Matsuoka
3	Classroom lectures	local and global public health	Itsuo Chiba Hirofumi Matsuoka
4	Oral presentation and paper publication		Itsuo Chiba Hirofumi Matsuoka
5	Preparation for Journal Club		Itsuo Chiba Hirofumi Matsuoka

### [Grading policies]

Your overall grade in the class will be based on class attendance and reports.

### [Remarks]

Textbook: Inform students about which textbook will be used.

Reference book: Same as above

### [Preparation for course]

Students must understand the course objectives and properly prepare for classes.