

<<Last Updated:2022/03/07>>

## Course Schedule Information

Course Code	88A052
Semester	Fall Term
Day and Period	Other
Course Name (Japanese)	国際交流特別講義 1 (理工医学概論Ⅲ)
Room	
Course Name	International Exchange Special Lecture 1 (Introduction to Biomedical Engineering Ⅲ)
Capacity	0
Course Numbering Code	88INES9U105
Required/Optional	
Credits	0.5
Student Year	1,2,3,4,5,6
Field	
Instructor	NAKAGAWA Atsushi
Course of Media Class	Not Applicable

※About Course of Media Class

"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.

Undergraduate students can include up to 60 credits in media class course as requirements for graduation.

Even if this is not the case, we may hold classes using the media.

## Detailed Syllabus Information

Course Name	Structure determination of biological macromolecules using synchrotron radiation
Language of the Course	English
Type of Class	Lecture Subject
Course Objective	X-ray crystallographic is one of the most powerful techniques for structure determination of biological macromolecules. This lecture will introduce the basics of X-ray crystallography, principles of synchrotron radiation and its applications, and current topics of structural biology.
Learning Goals	Understanding importance atomic structures of biological macromolecules which give valuable information of function of the molecules and basics of X-ray crystallography using synchrotron radiation for atomic structure determination.
Requirement / Prerequisite	
Class Plan	1. Basics of Synchrotron Radiation 2. Basics of X-ray diffraction 3. Protein Crystallography 4. Synchrotron Radiation and Structural Biology
Independent Study Outside of Class	
Textbooks	Handout will be prepared.
Reference	
Grading Policy	Attitude during the lecture (40%), Report (60%)
Other Remarks	
Special Note	
Office Hour	

<b>Keywords</b>	
<b>Messages to Prospective Students</b>	

## Instructor(s)

<b>Instructor Name</b>	<b>Name (hiragana)</b>	<b>Affiliation, Title, Course</b>	<b>Office</b>	<b>Extension</b>	<b>Fax</b>	<b>E-mail</b>
Atsushi Nakagawa		Inst. Protein Res., Professor	Inst. Protein Res.	4313		atsushi@protein.osaka-u.ac.jp

## Cautions for Students

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