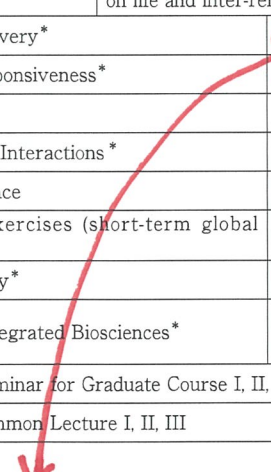


## List of Lectures

Compulsory or non-compulsory	Subject		Objectives/Overview
Compulsory	Compulsory elective	Breakthrough Now and Then I (Pre-School)	An overview is provided on what research takes place in every laboratory in the Department of Integrated Biosciences as well as on the code of conduct in scientific research at the University of Tokyo. Breakthrough Now and Then II is carried out in English for students who cannot understand Japanese.
		Breakthrough Now and Then II*	
	Compulsory	Debate on Ethics in Science and Technology	For the purpose of upbringing of a researcher who can make an appropriate decision with one's opinion and proper sense of ethics, a lecture of the student participation type will be carried out. Debate on Topics in Science and Technology is carried out in English for students who cannot understand Japanese.
		Debate on Topics in Science and Technology*	
	Frontiers in Life Science I*		Invited lecturers introduce and discuss the diverse field of life science to help students acquire a wide range of knowledge and develop their view on life and inter-relation with society.
	Seminar in Integrated Biosciences*		In preparation for Master thesis, faculty members of each laboratory will take charge in laboratory seminars and instruct poster/oral presentations and manuscript preparation for publication.
	Research Project Planning*		As a mid-term presentation of Master thesis research, students will create research achievement reports/plans, create posters, and perform oral presentation to be reviewed/examined by faculty members from other laboratories.
	Research of Integrated Biosciences I*		In preparation for Master thesis, faculty members of each laboratory will take charge in the selection of theme and conducting experiments.
Semi-compulsory	Lessons in Writing Scientific Papers in English		Basic skills required for writing scientific papers in English is lectured.
	Practice in Oral Presentation in English*		The purpose of this practice is to develop poster/oral presentation skills in English at academic meetings. Through practicing actual English presentations of a poster, points are instructed to make the presentation understandable and attractive.
Non-compulsory	Basic Biochemistry and Molecular Biology		For those who did not major in biochemistry or molecular biology during their undergraduate course, we teach the basics of biochemistry and molecular biology which are required for a comprehensive understanding of the wide range of biological phenomena covered in the Department of Integrated Biosciences.
	Statistical Analysis for Biosciences		Understand the statistics which is the base of life science research, and learn an objective method of data analysis. Also learn how to use different types of database.
	Frontiers in Life Science II		Invited lecturers introduce and discuss the diverse field of life science to help students acquire a wide range of knowledge and develop their view on life and inter-relation with society.
Non-compulsory (specialized)	Bio-Medicine, Drug Discovery*		Molecular Recognition*
	Biochemistry of Cell Responsiveness*		Signal Transduction*
	Eucaryotic Cell Biology*		Evolutionary Genetics*
	Microbe vs Non-Microbe Interactions*		Human Evolutionary Specificity*
	Frontiers in Cancer Science		Laboratory Course for Broadened Bioscience Skills
	Internationalization Exercises (short-term global program)*		Evolutionary Genomics*
	Animal Systems Biology*		
Compulsory (Doctoral Course)	Advanced Seminar in Integrated Biosciences*		Research of Integrated Biosciences II*
University-Wide Open Courses	Life Science Archive Seminar for Graduate Course I, II, III		
	Life Science Archive Common Lecture I, II, III		


  
**Molecular Dynamics: Recognition and Response in Organisms**