

科目名	Course Title
生化学1(Biochemistry I)	
学科・専攻	Department/Program
G30 Biology	
受講年次	Grade
2nd	
授業形態	Class style
必修・選択の別	Compulsory or Elective
講義	* See "Remarks"
時間割コード	Registration code
0682150	Fall semester Mon : 1
単位数	Credit
2	
科目区分	Course type
担当教員	Instructor
YOU Young-Jai	YOU Young-Jai
所属研究室	Laboratory
Genetics and Metabolic Regulation of Behavior	
連絡先	Contact
yjyou@bio.nagoya-u.ac.jp	
居室	Room
SS508	

講義の目的とねらい	Course purpose
The purpose of this course is to introduce the biomolecules and their contributions to life.	
履修要件	Prerequisite
N/A	
履修取り下げの方法について	How to Apply for Course Withdrawal
<「履修取り下げ届」提出の要・不要 Necessity/Unnecessity to submit "Course Withdrawal Request Form"> Necessary <条件等 Conditions> Submit the Course Withdrawal Request form by the sixth lecture	
成績評価	Grading
Evaluation will be based on in-class participation, quizzes, assignments and examinations.	
不可 (F) と欠席の基準	Criteria for "Absent" & "Fail" grades
Absent based on submission of Course Withdrawal Request Form. Fail based on "Failed" results of examinations and assignments.	
関連する科目	Related courses
Biochemistry II, III, and IV (Terms IV, V, and VI, respectively)	
教室	Class room

Check the Course Timetable.
Check the Course Timetable.
A407 (Science building A, room 407)

授業内容 Content

1. Introduction
2. Thermodynamics
3. Water: Physical & chemical properties of water.
4. Amino Acids
5. Proteins: 2D structures
6. Proteins: 3D structures
7. Proteins in action: Hemoglobin
8. Tools to study protein functions
9. Proteins in action: enzymes
10. DNA, RNA and genome
11. Tools to study genomes

教科書 Textbook

1. Principles of Biochemistry by Voet, D., Voet, J.G. and Pratt, C.W., Wiley and son, Inc. USA. ISBN: 78-11809244-6, 4th edition
2. Biochemistry by Berg, Tymoczko, Stryer, 8th edition.
3. Lehninger Principles of Biochemistry by Nelson and Cox, 7th edition.

参考書 Recommended reading

Recommended reading will be suggested in the class.

連絡方法 Contact method

via email

その他 Remarks

- *See Course List and Graduation Requirements for your program for your enrollment year.
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