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学部・大学院区分 Undergraduate / Graduate	理学部
時間割コード Registration Code	0682160
科目区分 Course Category	専門基礎科目 Basic Specialized Courses
科目名 【日本語】 Course Title	生化学2
科目名 【英語】 Course Title	Biochemistry II
コースナンバリングコード Course Numbering Code	
担当教員 【日本語】 Instructor	小嶋 誠司 ○
担当教員 【英語】 Instructor	KOJIMA Seiji ○
単位数 Credits	2
開講期・開講時間帯 Term / Day / Period	春 月曜日 2時限 Spring Mon 2
授業形態 Course style	講義 Lecture
学科・専攻 Department / Program	G30 Biology
必修・選択 Compulsory / Selected	See the "Course List and Graduation Requirements for your program for your enrollment year."

授業の目的 【日本語】 Goals of the Course(JPN)	
授業の目的 【英語】 Goals of the Course	We will continue to learn the biochemical basis of living organisms.
到達目標 【日本語】 Objectives of the Course(JPN)	
到達目標 【英語】 Objectives of the Course	The first part covers the structures and functions of the essential macromolecules, sugar and lipids, in biological systems. The 2nd part covers biochemical principles of cellular physiology focusing on how the cells communicate with outside as well as within its own inside. The goal is to understand how the structure and properties of biochemical molecules work to perform necessary functions to sustain life.
授業の内容や構成 Course Content / Plan	<ol style="list-style-type: none"> <li>1. Review of Biochemistry I</li> <li>2. Saccharide chemistry</li> <li>3. Lipids, Bilayer, and membranes</li> <li>4. Passive and active transport</li> <li>5. Mechanisms of enzyme action</li> <li>6. Properties of enzymes</li> <li>7. Hormones and signal transduction</li> </ol>
履修条件 Course Prerequisites	Biochemistry I
関連する科目 Related Courses	Biochemistry I, III and IV
成績評価の方法と基準 Course Evaluation Method and Criteria	<p>Evaluation will be based on in-class participation, assignments and examinations.</p> <p>Equal to or above 60% is required to pass</p>
不可(F)と欠席(W)の基準 Criteria for "Fail (F)" & "Absent (W)" grades	<p>Absent - based on submission of Course Withdrawal Request Form.</p> <p>Fail - based on "Failed" results of examinations and assignments.</p>
参考書 Reference Book	Recommended reading will be suggested in the class.
教科書・テキスト Textbook	<ol style="list-style-type: none"> <li>1. Principles of Biochemistry by Voet, D., Voet, J.G. and Pratt, C.W., Wiley and son 4th edition.</li> <li>2. Biochemistry by Berg, Tymoczko, Stryer, 8th edition.</li> <li>3. Lehninger Principles of Biochemistry by Nelson and Cox, 7th edition.</li> </ol>
課外学習等 (授業時間外学習の指示) Study Load(Self-directed Learning Outside Course Hours)	Assignment will be given. Review the lecture contents of each classes.
注意事項 Notice for Students	
他学科聴講の可否 Propriety of Other department student's attendance	
他学科聴講の条件 Conditions for Other department student's attendance	
レベル Level	
キーワード Keyword	
履修の際のアドバイス Advice	
授業開講形態等 Lecture format, etc.	Classroom in person style with real time online distribution by using zoom. The lecture will be recorded and stored in the NUSS storage site.
遠隔授業(オンデマンド型)で行う場合の追加措置 Additional measures for remote class (on-demand class)	

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