

Biotechnology			
Registration Code	0064311	Credits	2.0
Course Category	Sciences Liberal		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Thu. / 3 (13:00~14:30)		
Instructor	CARTAGENA Joyce Abad		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(P·C·Au)·Ag(B)		
<p>●Objectives of the course</p> <ol style="list-style-type: none"> 1. To provide basic knowledge on biological processes that will help students understand the science behind the technologies 2. To present examples of actual technology used in the industry 3. To discuss the benefits and drawbacks of Biotechnology to humanity and the environment 4. To provide a venue for students to express their opinions regarding the issues related to Biotechnology <p>●Course Prerequisites None</p> <p>●Course Contents (will not appear on the syllabus booklet but on our website)</p> <p>I. Introduction: The nature of Biotechnology</p> <ol style="list-style-type: none"> 1. Basic Science of Biotechnology 2. Technologies and Tools in Biotechnology I 3. Technologies and Tools in Biotechnology II <p>II. Products of Biotechnology:</p> <ol style="list-style-type: none"> 1. Microbial Biotechnology 2. Plant and Animal Biotechnology 3. Aquatic Biotechnology and Bioremediation 4. DNA Fingerprinting and Forensic Analysis 5. Medical Biotechnology <p>III. Biotechnology Regulations</p> <p>IV. Ethics and Biotechnology</p> <p>●Evaluation methods</p> <p>Attendance and class participation 30%</p> <p>Group presentation 20%</p> <p>In-class work/homework 20%</p> <p>Examination 30%</p> <p>●Notice for students</p> <ol style="list-style-type: none"> 1. Course webpage NUCT (Nagoya University Collaboration and Course Tools; https://ct.nagoya-u.ac.jp/portal) is an online system that will be used for this course. PowerPoint slides, other learning materials (such as videos, websites, etc.) and home works will be accessible through this page. 2. Attendance In case of emergency or absence from class, students should contact the instructor as soon as possible either by email or phone. 3. Make-up exam Make-up exams may be given on condition that the student can provide acceptable reasons for his/her absence. 			

4. Personal electronics policy

Personal electronic devices should not be visible or audible during class time.

5. Academic honesty and original work

Cheating and copying (including plagiarism) will not be tolerated in this class.

6. Course Withdrawal

Students who wish to withdraw from the course will have to submit a duly accomplished Course Withdrawal Request by November 21, 2019.

Textbook	Introduction to Biotechnology 4/e 2019 (Pearson) ISBN 9780134650197 *or older edition Authors: W.J. Thieman and M.A. Palladino
Reference Book	