



Module Handbook

Module Name :	<i>Biologi Umum</i> General Biology
Module level :	Bachelor degree/Undergraduate Program
Course Code :	4420103031
Abbreviation, if applicable:	-
Courses included in the module, if applicable:	Not Applicable
Semester/Term	1 st / first year
Module coordinator(s)	TIM FMNS
Lecturer(s):	Guntur Trimulyono, S.Si., M.Sc. Dra. Evie Ratnasari, M.Si. Dr. Widowati Budijastuti, M.Si.
Language:	Bahasa Indonesia (Indonesian Language)
Classification within the curriculum:	Compulsory/ Elective
Teaching format/class hours per week during the semester:	3 contact hours of lectures (<i>sks</i> or credit unit*)
Workload :	3 x 50 minutes lectures, 3 x 60 minutes structured activity, and 3 x 60 minutes individual activity per week, 14 weeks per semester 119 total hours per semester ~ 4.77 ECTS**
Credit Unit:	3 credit unit (4.77 ECTS)
Requirements:	None



Learning goals/competencies:	<p>Competency (COM-2) : Generating ideas used for completing mathematical tasks and to communicate them either in writing or orally, in accordance with scientific principles.</p> <p>CLO-1: Explain experimental results, and the use of basic biology concepts in the discussion of solving related problems, both orally and in writing.</p> <p>Social (SOC-1) : Working collaboratively and having social sensitivity (obligations as citizens and towards religion) and being able to bring change to a techno-ecopreneurship community.</p> <p>CLO-2: Develop and apply scientific, logical, critical, and innovative thinking in presenting alternative solutions for solving problems related to the basic concepts of biology.</p>
Content	<p>This course discusses about the basic concepts of Biology as a science, structure and function of cells, metabolism which includes transport, photosynthesis and respiration, genetics, diversity of living things and nomenclature, origin of life, evolution, structure and function of plant and animal organ tissues, ecology, organismal behavior and biotechnology, and practice solving problems through the scientific method. The General Biology study is accompanied by various process skills (minds on activity and hands on activity) that will be used to solve problems in the field of Biology and its application</p>

Attribute Soft skill:	Active communication; Discipline; Collaboration; Responsibility; and Argumentation in class and outdoor setting											
Study/exam achievements:	<p>The final grade (<i>NA</i>) is calculated based on the following ratio:</p> <table border="1" data-bbox="539 1559 1345 1883"> <thead> <tr> <th>Assessment Components</th> <th>Percentage of contribution</th> </tr> </thead> <tbody> <tr> <td>Participation</td> <td>20%</td> </tr> <tr> <td>Assignment</td> <td>30%</td> </tr> <tr> <td>Mid-semester test</td> <td>20%</td> </tr> <tr> <td>Final semester test</td> <td>30%</td> </tr> </tbody> </table>		Assessment Components	Percentage of contribution	Participation	20%	Assignment	30%	Mid-semester test	20%	Final semester test	30%
Assessment Components	Percentage of contribution											
Participation	20%											
Assignment	30%											
Mid-semester test	20%											
Final semester test	30%											



	<p>Grade conversion of 0-100 scale into 0-4 scale is set as below:</p> <table border="1" data-bbox="549 349 1417 815"> <thead> <tr> <th>Letter</th> <th>Number</th> <th>Grade Interval</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>4,00</td> <td>$85 \leq A \leq 100$</td> </tr> <tr> <td>A-</td> <td>3,75</td> <td>$80 \leq A- < 85$</td> </tr> <tr> <td>B+</td> <td>3,50</td> <td>$75 \leq B+ < 80$</td> </tr> <tr> <td>B</td> <td>3,00</td> <td>$70 \leq B < 75$</td> </tr> <tr> <td>B-</td> <td>2,75</td> <td>$65 \leq B- < 70$</td> </tr> <tr> <td>C+</td> <td>2,50</td> <td>$60 \leq C+ < 65$</td> </tr> <tr> <td>C</td> <td>2,00</td> <td>$55 \leq C < 60$</td> </tr> <tr> <td>D</td> <td>1,00</td> <td>$40 \leq D < 55$</td> </tr> <tr> <td>E</td> <td>0,00</td> <td>$0 \leq E < 40$</td> </tr> </tbody> </table>	Letter	Number	Grade Interval	A	4,00	$85 \leq A \leq 100$	A-	3,75	$80 \leq A- < 85$	B+	3,50	$75 \leq B+ < 80$	B	3,00	$70 \leq B < 75$	B-	2,75	$65 \leq B- < 70$	C+	2,50	$60 \leq C+ < 65$	C	2,00	$55 \leq C < 60$	D	1,00	$40 \leq D < 55$	E	0,00	$0 \leq E < 40$
Letter	Number	Grade Interval																													
A	4,00	$85 \leq A \leq 100$																													
A-	3,75	$80 \leq A- < 85$																													
B+	3,50	$75 \leq B+ < 80$																													
B	3,00	$70 \leq B < 75$																													
B-	2,75	$65 \leq B- < 70$																													
C+	2,50	$60 \leq C+ < 65$																													
C	2,00	$55 \leq C < 60$																													
D	1,00	$40 \leq D < 55$																													
E	0,00	$0 \leq E < 40$																													
<p>Learning Methods :</p>	<p>Student-centered approach; project-based learning; lecturer and discussion; and presentations (structured activities)</p>																														
<p>Form of Media:</p>	<p>Power point slides; video; worksheets, and textbooks</p>																														
<p>Literature (primary references):</p>	<ol style="list-style-type: none"> 1. Campbell, Neil A, Jane B.Reece dan Lawrence G.Mitchell. 2003. Biologi . California: Benjamin Cummings. 2. Kimball, J.W. 1989. Biologi Jilid I, II, III . Edisi Kelima. Cetakan Kedua. Jakarta: Penerbit Erlangga. 3. Rachmadiarti, F.,Yuliani, Widowati B., Rinie P, Mahanani T.A,Dyah H.,Herlina F.2007. Biologi Umum . Surabaya: UNESA Press. 4. Luria. 1981. A View of Life . California: Benyamin Cumming 																														
<p>Notes:</p>	<p>*1 credit unit or <i>sks</i> in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.</p>																														



MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY

UNIVERSITAS NEGERI SURABAYA

FACULTY OF MATHEMATICS AND NATURAL SCIENCE

UNDERGRADUATE PROGRAM OF MATHEMATICS

Ketintang Campus, C8-C9 Buildings of FMIPA, Surabaya

Email: s1-mat@unesa.ac.id

<p>**1 credit unit or <i>sks</i> = 1.59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/UN38/HK/AK/2019</p>
