MINISTRY OF EDUCATION AND CULTURE
UNIVERSITAS NEGERI SURABAYA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF NATURAL SCIENCES
Ketintang Campus, Jl. Ketintang C12 Building, Surabaya 60231
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Module Name:	*Biologi Umum* (Basic Biology)
Module Level:	Bachelor degree/Undergraduate Programme
Course Code:	8420103158
Abbreviation, if applicable:	-
Courses included in the module, if applicable:	Not applicable
Semester/term	1/first year
Module coordinator(s):	Dyah Astriani, S.Pd., M.Pd
Lecturer(s):	Dr. Yuliani, M.Si. Ahmad Qosyim, S.Si., M.Pd. Enny Susiyawati, S.Si., M.Pd., M.Sc., Ph.D Dhita Ayu Permata Sari, S.Pd., M.Pd
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 (Indonesia credit semester or *sks**)
Workload:	3 x 50 minutes lectures, 3 x 60 minutes structured activity, 3 x 60 minutes individual activity, 14 weeks per semester, 119 total hours per semester ~ 4.77 ECTS**
Credit point:	3 *sks* (4.77 ECTS)
Requirements:	-
Learning goals/competencies:	**Course Learning Outcomes (CLOs):** After taking this course, students will be able to: 1. Mastering the basic concepts of biology and conducting experiments: scientific method, cell structure and function, metabolism, photosynthesis and respiration), genetics, diversity of living things and nomenclature; 2. Mastering the basic concepts of biology and conducting experiments: the origin of life, evolution, structure of plant and animal organ tissue functions, ecology, organism behavior and biotechnology; 3. Applying the principles of the scientific method to discussing various natural phenomena that are catastrophic to the life of organisms; 4. Designing observations about living organisms and making reports
Content:	Scientific methods, Structure and function of cell, Characteristics and Classification of Living Things, metabolism, genetic, biodiversity, origin of living, structure and function of plant tissue, nomenclature, ecology, biotechnology, inheritance
Attribute Soft skill:	Be autonomous, honest, discipline, comunication, collaboration, responsibility, analyze data and information, problem solving, and argumentation in the natural classroom setting
Study/exam achievements:	Students are considered to be competent and pass if at least get 40% of the maximum final grade. The final grade (NA) is calculated based on the following weight:

Assessment Components	Percentage Contribution
Participation	20%
Assignment	30%

	<table><tr><td>Mid-semester test</td><td>20%</td></tr><tr><td>Final semester test</td><td>30%</td></tr><tr><td>Total</td><td>100%</td></tr></table>
Learning Methods	Student-centered approach, respository, lecturing, discussion, presentation (structured activities), laboratory activities
Form of Media:	LCD, PowerPoint, hand out, worksheet, simulation, internet, and whiteboard
Literature (primary references):	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 3. Rachmadiarti, F.,Yuliani, Widowati B., Rinie P, Mahanani T.A,Dyah H.,Herlina F. 2007. *Biologi Umum*. Surabaya: UNESA Press. 4. 4. Luria. 1981. *A View of Life*. California: Benyamin Cumming. 5. Johnson, Raven. *Biology.*Third Edition. 6. Reece, Taylor, Simon, dan Dickey. 2012. *Campbell Biology, Concepts and Connection*s. Eleventh Edition. San Francisco: Pearson Education, Inc. 7. Reece, Urry, Cain, Waserman, Minorsky, dan Jackson. 2011. *Campbell Biology.* Ninth Edition. San Francisco: Pearson Education, Inc. 8. Solomon, B., dan Martino. 2008. *Biology.*Eight Edition. Belmont, CA: Thomson, Brooks/Cole. 9. Rujukan lain dalam bentuk berbagai artikel dalam jurnal atau *proceeding* internasional dan nasional yang terkini dan termutakhir (5-10 tahun terakhir).
Notes:	***1 *sks* in learning process = three contact hours that 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.
	****1 sks = 1,59 ECTS**