Module Descriptions

Module designation	General Biology *Biologi Umum*
Module level	Bachelor degree/Undergraduate Program
Course Code	8420103023
Semester/Term	1st semester/year 1
Person responsible for the module	Dr. Dyah Astriani, M.Pd. Dr. Hasan Subekti, S.Pd. Enny Susiyawati, S.Si., M.Pd., M.Sc., Ph.D. Dhita Ayu Permatasari, S.Pd., M.Pd. Aris Rudi Purnomo, S.Si., M.Sc., M.Pd. Ahmad Qosyim, S.Si., M.Pd. Fikky Dian Roqobih, S.Pd., M.Pd.
Language	Indonesia
Relation to curriculum	Compulsory course
Teaching methods	Lecture, lab works
Workload	Contact hours: 2 x50 minutes lectures, 3 x50 minutes laboratory works Private study: 2 x60 minutes structured activity, 2 x60 minutes individual activity, Total 135 hours per semester ~ 4.77 ECTS**
Credit Point	3 CU
Required and recommended prerequisites for joining the module	-
Module Objectives/intended learning outcomes	1. Mastering basic concepts in biology, including Biology as knowledge, cell structure and function, cell division, metabolism including transport, photosynthesis andrespiration, genetics, biodiversty, evolution, ecology, microbial growth and development, biotechnology, andtraining to solve issues using scientific method (knowledge) 2. Able to apply basic knowledge and skill in applying basic Biology concepts in solving issues on natural resource and environment in laboratory works (knowledge) 3. Able to apply transferable skill in Biology to develop ecopreneurship (eco-innovation, eco-opportunity, eco-commitment) (Special competences)

<table>
<tr><td></td><td>4. Able to work and be responsible both independently or in group in performing tasks related to Basic Biology (attitude)</td></tr>
<tr><td>Content</td><td>Basic concepts of biology as a science, cell structure and function, metabolism including 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, organism behavior and biotechnology, and practice solving problems through scientific methods.</td></tr>
<tr><td>Examination forms</td><td>Written exam</td></tr>
<tr><td>Study and examination requirements</td><td>Study Requirement

Attendance: students must attend at least 75% of the lectures to be eligible for the final examination.

Study examination

The final grade (NA) is calculated based on the following ratio:

<table>
<tr><td>Assessment Components</td><td></td><td>Percentage of contribution</td></tr>
<tr><td>Participation</td><td></td><td>20%</td></tr>
<tr><td>Assignment</td><td></td><td>30%</td></tr>
<tr><td>Mid-semester test</td><td></td><td>20%</td></tr>
<tr><td>Final semester test</td><td></td><td>30%</td></tr>
</table>
Grade conversion of 0-100 scale into 0-4 scale is set as below:
<table>
<tr><td>Letter</td><td>Number</td><td>Grade Interval</td></tr>
<tr><td>A</td><td>4,00</td><td>85 ≤ A ≤ 100</td></tr>
<tr><td>A-</td><td>3,75</td><td>80 ≤ A- < 85</td></tr>
<tr><td>B+</td><td>3,50</td><td>75 ≤ B+ < 80</td></tr>
<tr><td>B</td><td>3,00</td><td>70 ≤ B < 75</td></tr>
<tr><td>B-</td><td>2,75</td><td>65 ≤ B- < 70</td></tr>
<tr><td>C+</td><td>2,50</td><td>60 ≤ C+ < 65</td></tr>
<tr><td>C</td><td>2,00</td><td>55 ≤ C < 60</td></tr>
<tr><td>D</td><td>1,00</td><td>40 ≤ D < 55</td></tr>
<tr><td>E</td><td>0,00</td><td>0 ≤ E < 40</td></tr>
</table></td></tr>
<tr><td>Reading List</td><td>

Campbell, N.A., Reece, J., Urry, L.A., Cain, M.L., Wasserman, S.A., Minorsky., P.V. 2020. Campbell Biology 10 ed. Pearson
Kimball, J.W. 1993. Biologi Jilid I, II, III . Edisi Kelima. Cetakan Kedua. Jakarta: Penerbit Erlangga.
Rachmadiarti, F.,Yuliani, Widowati B., Rinie P, Mahanani T.A,Dyah H.,Herlina F.2022 Biologi Umum . Surabaya: UNESA Press.

</td></tr>
</table>

	● Luria. 1981. A View of Life . California: Benyamin Cumming. ● Reece, J. B., Urry, L. A., Cain, M. L., Wasserman, S. A., Minorsky, P. V., & Jackson, R. B. 2014. Campbell biology (Vol. 9). Boston: Pearson. ● Biggs,A.Hagins W.C.Holiday,W.G.2008.Biology.New York:McGraw-Hill7.Morris, J., Hartl, D., Knoll, A., Lue, R., Michael, M. 2019. Biology: How Life Works Third edition. Freeman.8.Clark, M.A., Choi, J., Douglas, M. 2018. Biology 2e. Openstax, RICE University.