

Fundamental Biology

Module name		Fundamental Biology				
Module level		1 st year of Bachelor program				
Abbreviation, if applicable		-				
Sub-heading, if applicable		-				
Courses included in the module, if applicable		BI1001 – Fundamental Biology				
Semester/term		1 st Semester				
Module coordinator(s)		Dr. Agus Dana Permana				
Lecturer(s)		Dr. Tjandra Anggraeni Dr. Agus Dana Permana				
Language		Indonesian				
Classification within the Curriculum		Compulsory courses for Bachelor Program in Biology				
Teaching format/ class hours per week during the semester		Lecture (face to face teaching): 4 x 1 hour x 12 weeks = 48 hours Assignment: Student class presentation/group: 4 x 1 hours x 2 weeks Quizzes: 15 minutes x 8 weeks				
Workload	Total Workload	192 hours; 4 CU				
		Face to face teaching	Structured Activities	Independent study	Exam	Total
	Lecture	48	9	129	6	192
Credit points		<i>Fundamental Biology (4 CU)</i>				
Requirements		-				
Content		<p>This module is designed to introduce basic integrating concepts of biology, including:</p> <ul style="list-style-type: none"> • Cell and Molecular Biology • Genetics • Evolution • Biodiversity • Form and Function • Ecology <p>This module is for 1st year students, and thus emphasizes the ability of students to acquire knowledge rather than the mastery of skills.</p>				
Learning goals/competencies		<p><i>After completion of this module students are expected to be able to:</i></p> <p>Knowledge: Describe basic concepts of biology comprehensively</p> <p>Skills: --</p> <p>Competences: Relate the key integrating concepts of biology for the subsequent courses</p>				
Study/exam achievements		<i>Midterm exam 1</i>	<i>Midterm exam 2</i>	<i>Final exam</i>	<i>Quizzes</i>	<i>Student class presentation</i>
		25%	25%	25%	10%	15%
Forms of media		<i>Classical teaching tools:</i>		<i>White board, power point presentation</i>		
		<i>Digital teaching tools:</i>		<i>Video/CD, Website</i>		
Literature		<ol style="list-style-type: none"> 1. Campbell et al. 2011. Biology, 9th Edition. Pearson. 2. Raven and Johnson. 2002. Biology, 6th Edition. McGraw-Hill, Boston, MA. 				