

Faculty	Natural Sciences			
Home Department	Earth Science			
Module Topic	Earth Materials			
Generic Module Name	Earth Materials 111			
Alpha-numeric Code	ESC111			
NQF Level	5			
NQF Credit Value	15			
Duration	Semester			
Proposed semester to be offered	First Semester			
Programmes in which the module will be offered	BSc (Applied Geology) (3214, 3011); BSc (Biodiversity and Conservation Biology) (3217, 3015); BSc (Environmental & Water Science) (3331, 3027); BSc (Physical Science) (3233)			
Year level	1			
Main Outcomes	<p>On completion of this module students should be able to:</p> <ul style="list-style-type: none"> • Explain basic Earth Materials and their formation. • Identify major rocks and minerals as products associated with these formation processes. • Grasp basic concepts of stratigraphy and Earth dynamics. 			
Main Content	<ul style="list-style-type: none"> • The Earth in the Universe • Structure of the Earth, Isostasy, Plate Tectonics, Paleomagnetism • Rock Cycle, Geologic Time, • Introduction to minerals and rocks, classification of minerals and rocks • Geology of Southern Africa, Earth Dynamics • Historical Geology of Southern Africa • Introduction to structural Geology and mapping techniques 			
Pre-requisite modules	None			
Co-requisite modules	None			
Prohibited module Combination	None			
Breakdown of Learning Time	Hours	Timetable Requirement per week		Other teaching modes that does not require time-table
<i>Contact with lecturer / tutor:</i>	56	<i>Lectures p.w.</i>	3	
<i>Assignments & tasks:</i>	8	<i>Practicals p.w.</i>	3	
<i>Practicals:</i>	42	<i>Tutorials p.w.</i>	1	
<i>Tutorials:</i>	0			
<i>Tests & Examinations:</i>	10			
<i>Selfstudy:</i>	34			
<i>Other:</i>	0			
Total Learning Time	150			
Methods of Student Assessment	Continuous Assessment (CA): 50%			
	Final Assessment (FA): 50%			
Assessment Module type	Continuous and Final Assessment (CFA)			