



# UNIVERSITY OF EMBU

Office of the Chairman

(Department of Educational Communication, Administration and Planning)

Unit allocation 2<sup>nd</sup> Semester 2017/2018 Academic year for B.Ed. (Science) Program

<b>YEAR 1 SEMESTER 2</b>	
<b>COMMON UNIVERSITY COURSES</b>	
CCS002	Fundamentals of Development and its Applications
<b>EDUCATION</b>	
TAP102	Education and Development
BEF103	Philosophy of Education
TPS102	Psychology of Human Development
<b>AGRICULTURE</b>	
ACS105	Principles of Genetics
ASS102	Principles of Soil Science
<b>BIOLOGY</b>	
SBT102	Introduction to Biochemistry and Genetics
SZL102	Vertebrate Zoology
<b>CHEMISTRY</b>	
SCH102	Organic Chemistry I
<b>GEOGRAPHY</b>	
GEG102	East African Environment
GEG104	Fieldwork and Research Methodology in Geography
<b>MATHEMATICS</b>	
SMA104	Calculus II
SMA140	Introduction to Probability and Statistics
<b>PHYSICS</b>	
SPH102	Electricity and Magnetism I
SPH103	Waves and Optics
SPH104	Man and the Physical World



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<b>YEAR 2 SEMESTER 2</b>	
<b>EDUCATION</b>	
BEF201	Sociology of Education
TAP201	Curriculum Development
<b>AGRICULTURE</b>	
ACS104	Introduction to Plant/Crop Physiology
<b>BIOLOGY</b>	
<b>SZL203A</b>	Fundamentals of Aquatic Ecology ( <b>For Agric/Bio ONLY</b> )
<b>SZL203B</b>	Animal Physiology ( <b>For Bio/Chem, Bio/Geo &amp; Bio/Math ONLY</b> )
SBT204	Plant Structure and Function
<b>CHEMISTRY</b>	
SCH202	Chemistry of Alkyl Halides, Alcohols, Ethers, Alkenes, Alkynes, and Aromatic Compounds
SCH204	Introduction to Reaction Kinetics and Electrochemistry
<b>GEOGRAPHY</b>	
GEG203	The Biophysical Environment
GEG204	Elements of Surveying and Cartography
<b>MATHEMATICS</b>	
SMA206	Introduction to Real Analysis
SMA208	Ordinary Differential Equations I
<b>PHYSICS</b>	
SPH203	Structure and Properties of Matter
SPH204	Mathematical Physics I



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<b>YEAR 3 SEMESTER 2</b>	
<b>EDUCATION</b>	
TPS102	Psychology of Human Development
TCT310	Instructional Methods (Agriculture)
TCT323	Instructional Methods (Geography)
TCT330	Instructional Methods (Mathematics)
TCT331	Instructional Methods (Biology)
TCT332	Instructional Methods (Chemistry)
TCT333	Instructional Methods (Physics)
<b>AGRICULTURE</b>	
ACP304	Environmental Management
ASS307	Soil Fertility and Fertilizer Use
<b>BIOLOGY</b>	
SBT301	General Mycology
SZL302/SZL301	Evolutionary Biology
<b>CHEMISTRY</b>	
SCH303	Thermodynamics II and Phase Equilibria
SCH304	Coordination Chemistry
<b>GEOGRAPHY</b>	
GEG302	Statistical Techniques in Geography
GEG303	Geomorphology
<b>MATHEMATICS</b>	
SMA306	Complex Analysis I
SMA320	Methods I
<b>PHYSICS</b>	
SPH302	Thermodynamics
SPH303	Solid State Physics



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<b>YEAR 4 SEMESTER 2</b>	
<b>EDUCATION</b>	
TPS402	Introduction to Special Needs
<b>AGRICULTURE</b>	
ASS307	Soil Fertility and Fertilizer Use
ASS406	Soil And Water Pollution
<b>BIOLOGY</b>	
SBT401	Plant Biochemistry
SBT402	Microbial Ecology
<b>CHEMISTRY</b>	
SCH401	Chemistry of Transition Elements
SCH404	Organometallic Chemistry
<b>GEOGRAPHY</b>	
GEG401	Computer Techniques in Geography
GEG403	Climatology
<b>MATHEMATICS</b>	
SMA405	Algebra II
SMA420	Mathematical Modeling
<b>PHYSICS</b>	
SPH403	Solid State Physics II
SPH404	Statistical Physics