

Preliminary and Level 1	Level 2
<p><b>BL05A/BIOL0011 Preliminary Biology I •</b>  <b>BL05B/BIOL0012 Preliminary Biology II</b>  <i>[Prescribed]</i>            Campbell Biology. <i>Reece, Urry, Cain, Wasserman, Minkorsky and Jackson</i>, 2010, 9th Ed. ISBN10-0321739752; ISBN13: 9780321739759</p>	<p><b>AGSL2401 Soil and Water Management</b>  <i>[Prescribed]</i>            Soil Science Simplified, <i>H. Kohnke and D.P. Franzmeier</i>, 1998, ISBN: 0881338133, ISBN-13: 9780881338133  <i>[Recommended]</i>            The Nature and Properties of Soils, <i>N.C. Brady and R.R. Weil</i>, 2008            Soil and Water Conservation Engineering, <i>D.D. Frangmeier, W.J. Elliott, S.R. Workman and R.L. Huffman</i>            Soil and Water Management Systems, <i>G.O. Schwab, D.D. Frangmeier and W.J. Elliott</i></p>
<p><b>BIOL1017 Cell Biology •</b>  <b>BIOL1018 Molecular Biology and Genetics</b>            Cell Biology, Genetics, Molecular Biology, Evolution and Ecology: <i>P. S. Verma &amp; V. K. Agarival</i>, 2000</p>	<p><b>BIOL2401 Research Skills and Practices in Biology</b>  <i>[Prescribed]</i>            Practical Skills in Biology: <i>A. Jones, R. Reed and J. Weyers</i>, 4<sup>th</sup> Ed.</p>
<p><b>BIOL1262 Living Organisms I</b>            Stern's Introductory Plant Biology: <i>Bidlack, James and Shelley Jansky</i>, 2010, 12<sup>th</sup> Ed.</p>	<p><b>BIOL2402 Fundamentals of Biometry</b>  <i>[Prescribed]</i>            Biostatistical Analysis: <i>J. H. Zar</i>, 2009, 5<sup>th</sup> Ed. (<i>prescribed</i>)            Statistics Explained: <i>Perry R. Hinton</i>, 2004, 2<sup>nd</sup> Ed.</p>
<p><b>BIOL1263 Living Organisms II</b>            Animal Diversity : <i>Hickman CP, Roberts LS, Keen SL, Larson A and Eisenhower DJ</i>, 2007, 4<sup>th</sup> Ed.</p>	<p><b>BIOL2403 Principles of Ecology</b>  <i>[Prescribed]</i>            Elements of Ecology: International Edition, <i>T.M. Smith and R.L. Smith</i>, 2008, 7<sup>th</sup> Ed.</p>
	<p><b>BIOL2404 Genetics</b>  <i>[Prescribed]</i>            Concepts of Genetics, <i>W. S. Klug, M. R. Cummings, C. A. Spencer and M. Palladino</i>, 2009, 9<sup>th</sup> Ed.</p>
	<p><b>BIOL2406 Eukaryotic Microbiology</b>  <i>[Recommended]</i>            Brock Biology of Microorganisms, <i>M.T. Madigan, J.M. Martinko and J. Parker</i>            Phycology, <i>R.E. Lee</i>            Introduction to Fungi, <i>J. Webster and R.W.S. Webber</i>            Algae: Anatomy, Biochemistry and Biotechnology, <i>L. Barsanti and P. Gualtieri</i>            Introductory Mycology, <i>C.J. Alexopoulos, C.W. Mims and M. Blackwell</i>  <b>[NB: There is no text currently available that covers all the topics at the appropriate Level]</b></p>
	<p><b>BOTN2401 Plant Form and Systematics</b>  <i>[Prescribed]</i>            An Introduction to Plant Structure and Development: Plant Anatomy for the Twenty-First Century, <i>C.E. Beck</i>, 2010, 2<sup>nd</sup> Ed. ISBN-10: 0521518055, ISBN-13: 978-0521518055.</p>
	<p><b>BOTN2402 Physiology of Plants</b>  <i>[Prescribed]</i>            Plant Physiology, <i>L. Taiz and E. Zeiger</i>, 2006, 5th Ed.</p>
	<p><b>BL20L/BIOL2013 Diving Technology for Aquatic Scientists</b>  <i>[Prescribed]</i>            Scuba Diving, <i>D. K. Graver</i>, 2009, 4<sup>th</sup> Ed. ISBN 0-7360-4539-2</p>
	<p><b>ZOOL2401 Animal Form •</b>  <b>ZOOL2402 Animal Physiology</b>            Animal Structure and Function (Biology: The Unity and Diversity of Life), <i>C. Starr</i>, 2009</p>

## Level 3

**BL31E/BIOL3014 Marine Ecology I: Biological Oceanography •****BL31F/BIOL3015 Marine Ecology II: Benthic Communities**

[Prescribed]

Marine Biology: An Ecological and Environmental Approach. *J. Nybakken*, 2001, 5<sup>th</sup> Ed.

**BL31G/BIOL3023 Coral Reef Biology**

[Prescribed]

A Field Guide to Coral Reefs: Caribbean and Florida. *E. H. Kaplan, S. L. Kaplan and R. T. Peterson*, 1999

[Recommended]

Reef Coral Identification. *P. Human and N. Deloach*

**BL33D/BIOL3021 Freshwater Ecology**

[Prescribed]

Stream Ecology. *J. D. Allen*, 2004

**BL38A/BIOL3017 Virology**

[Prescribed]

Principles of Molecular Virology, *Alan Cann*, 2001

Basic Virology, *M. Hewlett and E. Wagner*, 2004

**BL39E/BIOL3020 Conservation Biology**

[Prescribed]

Essentials of Conservation Biology. *Richard B. Primack*

**BT33A/BOTN3014 Forest Ecology, Agroforestry and Sustainable Development**

[Highly Recommended]

An Introduction to Tropical Rainforests, *T. C. Whitmore*

The Tropical Rainforest, *P. W. Richards*, 2<sup>nd</sup> Ed.

Tropical Forest and its Environment, *K. A. Longman and J. Jenik*

[Recommended]

Tropical Forest: Botanical Dynamics, *L. B. Holm-Neilsen*

Speciation and Diversity, *I. C. Neilsen and H. Balskov*

**BT33B/BOTN3018 Medicinal and Economic Botany**

Fundamentals of Pharmacognosy and Phytotherapy. *M.*

*Heinrich, J. Barnes, S. Gibbons and E. Williamson*, 2004.

ISBN-10: 0443071322, ISBN-13: 978-0443071324

Medicinal Plants: Chemistry and Properties, *M. Daniel*, 2006.

ISBN-10: 1578083958, ISBN-13: 978-8120416895.

Economic Botany: Plants in our World, *B.B. Simpson and M.C.*

*Ogarzaly*, 2001. ISBN-10: 0072909382, ISBN-13: 978-

0072909388

Jamaica's Ethnomedicine: Its Potential in the Healthcare System.

*H. Lowe, A. Payne-Jackson, M. Beckstrom-Sternberg and J.*

*Duke*, 2001. ISBN: 9766103615

Jamaican Folk Medicine: A Source of Healing, *A. Payne-Jackson*,

2004. ISBN-10: 9766401233, ISBN-13: 978-9766401238.

Herbal Plants of Jamaica, *M. Warner*, 2007. ISBN-10:

1405065664, ISBN-13: 978-1405065665.

**BT34A/BOTN3015 Principles of Plant Breeding**

[Prescribed]

Breeding Field Crops, *J.M. Poehlman and D.A. Sleper*, 4<sup>th</sup> Ed.

**BT38B/BOTN3016 Plant Biotechnology**

[Prescribed]

Experiments in Plant Tissue Culture, *J. Dodds and L. Roberts*,

1995

Plant Biotechnology: The Genetic Manipulation of Plants, *Adrian Slater, Nigel Scott and Mark Fowler*, 2003

**BT38K/BOTN3017 Principles of Horticulture**

[Prescribed]

Principles of Horticulture, *C.R. Adams, K.M. Bamford and M.P.*

*Early*, 5<sup>th</sup> Ed.

**Z30G/ZOOL3015 General Parasitology**

[Prescribed]

Foundation of Parasitology, *Larry S. Roberts & John Janovy*,

2005, 7<sup>th</sup> Ed.

**Z30M/ZOOL3017 Immunology**

[Prescribed]

Immunology - A Short Course, *R. Coico, G. Sunshine and E.*

*Benjamini*, 2003, 5<sup>th</sup> Ed.

**Z31F/ZOOL3019 Fisheries and Aquaculture Technologies**

[Prescribed]

Fisheries Biology, Assessment and Management, *M. King*, 2<sup>nd</sup> Ed.

Marine Life of the Caribbean, *Jones & Sefton*

Introduction to Aquaculture, *M. Landau*

Fisheries of Caribbean Reefs, *I.F. Took*

Aquaculture Farming Aquatic Animals and Plants, *J.S. Lucas and*

*P.C. Southgate*

**Z32C/ZOOL3020 Insect Biology and Systematics**

[Prescribed] Borrow and DeLong's Introduction to the Study of

Insects, *C.A. Tipplesdorn and N. F. Johnson*, 2005, 7<sup>th</sup> Ed.

A Field Guide to Insects: America North of Mexico (Peterson

Field Guides): *Richard E. White, Donald J. Borror, Roger Tory*

*Peterson* (Editor), ISBN- 0-395-91170-2

**Z32G/ZOOL3021 Pest Management**

[Prescribed]

Entomology and Pest Management, *Larry P. Pedigo and M. E.*

*Rice*, 2005, 5<sup>th</sup> Ed.

[Recommended]

Insect Pest Management, *David Dent*, 2000