



THE UNIVERSITY OF THE WEST INDIES  
Faculty of Science & Technology

Department of Life Sciences  
**BOOKLIST**

**SEMESTER I**  
**2019/2020**

**ADVANCED LEVEL**

## **BIOC 2061 – BIOENERGETICS**

*Dr. Adrian Lennon*

*Category - A-*

### **Lehninger Principles of Biochemistry**

Nelson & Cox

W.H. Freeman 5<sup>th</sup> Edition

*Category - B-*

### **Principles of Biochemistry**

Robert A. Horton, Laurence A. Moran, Gray

Scrimgeour, Marc Perry and David Rawn

Prentice Hall 4<sup>th</sup> Edition

### **Biochemistry**

Jeremy Berg, John L. Tymoczko and Lubert Stryer

W.H. Freeman 6<sup>th</sup> Edition

### **Molecular Biology of the Cell**

Bruce Alberts, Alexander Johnson, Julian Lewis,

Martin Raff Keith Roberts and Peter Walter

Garland Science 5<sup>th</sup> Edition

### **Biochemistry and Molecular Biology of Plants**

Wilhelm Gruissem Russell L. Jones B.B. Buchanan

I.K. International

### **Bioenergetics**

David G. Nicholls, Stuart J. Ferguson

Academic Press 3<sup>rd</sup> Edition

## **BIOC 2069 PRACTICAL SKILLS IN BIOCHEMISTRY 1**

*Dr. Adrian Lennon*

*Category - A-*

### **Lehninger Principles of Biochemistry**

David L. Nelson & Michael M. Cox

W.H. Freeman

*Category - B-*

### **Basic Biochemical Methods**

Renee R. Alexander and Joan M. Griffiths

Wiley

### **Modern Experimental Biochemistry**

Rodney Boyer

Prentice Hall

### **Principles and Techniques of Practical Biochemistry**

Keith Wilson and John Walker

Cambridge University

### **Data for Biochemical Research**

Rex M. Dawson, Daphn C. Elliot, William H. Elliot  
and Kenneth

Oxford University

## **BIOC 2161 – PRIMARY METABOLISM**

*Dr. Valerie Bowrin*

*Category - A-*

### **Principles of Biochemistry**

Nelson, Cox, Lehninger

Worth Publishers, 6 March 2002, 3<sup>rd</sup> Ed. UK.

*Category -B-*

### **Regulation of Enzyme Activity**

Ottaway, J.H.

Oxford University Press Inc. 1988 (paper),

**Metabolic Regulation: A Human Perspective**

Frayn, K.N.

Portland Press Ltd. London, 1996 (paper),

*Category -C-*

**Biochemistry 3<sup>rd</sup> Edition**

Champe, Harvey & Ferrier

Lippincott's Illustrated Reviews, ISBN: 0781722659

**BIOC 3062 – Cellular and Molecular Defense Systems**

*Dr. Valerie Bowrin/Dr. Sephra Rampersad*

*Category-B-*

**A Textbook of Modern Toxicology**

Hodgson Ernest

4th Edition. Wiley.

**Principles of Biochemical Toxicology**

Timbrell John

3rd Edition. Informal Health Care

*Category-C-*

**Lehninger Principles of Biochemistry**

Nelson, David and Cox Michael

3rd Edition. W. H. Freeman

**Textbook of Biochemistry with Clinical Correlations**

Devil Thomas

5th Edition. Wiley-Liss

**Biochemistry**

Garett Reginald & Grisham Charles

2nd Edition. Cengage Learning

**Biochemistry**

Berg Jeremy, Tymoczko John & Stryer Lubert

5th Edition. W. H. Freeman

**Harper's Biochemistry**

Murray Robert, Granner Darryl, Mayes Peter & Rodwell Victor

25th Edition. Mc Graw-Hill Medical

**I. Immunobiology**

Janeway, Charles., Travers, Paul., Mark, Walport., & Mark, Shlomchik.

Garland Science.

**Cellular and Molecular Immunology**

Abbas, Abul., Lichtman, Andrews & Pillai, Shiv.

Sunders

**Essential Immunology**

Delves, Peter., Martin, Seamus, Martin., Burton, Dennis., & Roitt, Ivan.

Wiley-Blackwell

**Immunology**

Coico, Richard., Sunshine & Geoffrey, Sunshine

Wiley-Blackwell

**BIOC 3162 – EXPERIMENTAL  
BIOCHEMISTRY AND MOLECULAR  
BIOLOGY**

*Dr. Sephra Rampersad*

*Category-B-*

**Short Protocols in Molecular Biology**

Ausubel, Frederick., Brent, Roger., Kingston, Robert., Moore, David., Seidman, J.G., Smith, John & Struhl, Kevin. Current Protocols

**Current Protocols in Molecular Biology**

An Online Manual

**The Condense Protocols from Molecular Cloning**

Sambrook, Joseph & Russell, David.  
Cold Spring Harbor Laboratory Press (2006)

**BIOL 2061 – CELL & DEVELOPMENT  
BIOLOGY**

*Dr. Georgette Briggs*

*Category-A-*

**Development Biology**

Scott F. Gilbert  
Sinauer Associates, Inc 2010 9<sup>th</sup> Edition

**Molecular Biology of the Cell**

Bruce Albert, Alexander Johnson, Julian Lewis,  
Martin Raff, Keith Roberts and Peter Walter  
Garland Science 4<sup>th</sup> Edition (March 2002)

*Category-B-*

**Patterns & Experiments in Development Biology**

Johnson & Volpe  
McGraw-Hill Companies, Inc. 2001

ISBN 0-07-237965-0

**Principles of Development**

Lewis Wolpert, Rosa Beddington, Thomas Jessell,  
Peter Lawrence, Elliot Meyerowitz, Jim Smith  
Oxford University Press 2<sup>nd</sup> Edition, 2002  
ISBN 0-19-924939-3

*Category-C-*

**Embryology: An Introduction to Development  
Biology**

Stanley Shostak  
Harper / Collins, New York  
ISBN 0-06-046126-8

**Cells, Embryos and Evolution**

John Gerhart and Marc Kirschner  
Blackwell Science, 1997 ISBN 0-86542-574-4

**BIOL 2163 – BIOSTATISTICS**

*Dr. Isaac Dialsingh*

*Category – A-*

**Biostatistics for the Biological and Health  
Sciences**

Triola M.M. and Triola MF  
Pearson / Addison Wesley, Boston (QH323.5.T75  
2006)

*Category – B-*

**BIOL 2163 Biostatistics Course Manual**

Department of Life Sciences  
Available on mylearning

**Biostatistics Analysis**

Zar, J.H.

Prentice-Hall, N.J. 2<sup>nd</sup> Edition 1984

**BIOL 2165 – GENETICS II**

*Dr. Winston Elibox*

*Category-A-*

**Genetics: Analysis & Principles**

Robert Brooker

McGraw-Hill Higher Education 2008 3<sup>rd</sup> Edition

ISBN: 9780071287647

**Principles of Genetics**

D. Peter Snustad, Michael J. Simmons

John Wiley & Sons Inc. 2009 6<sup>th</sup> Edition

ISBN: 9780470388259

*Category-B-*

**Genetics A Conceptual Approach**

Benjamin A. Pierce

Worth Publishers

**Principles of Genetics**

Roberts H. Tamarin

McGraw-Hill 7<sup>th</sup> Edition

**Essentials of Genetics**

William S. Klug, Michael R. Cummings, Charlotte

A. Spencer, Michael A. Palladino

Benjamin Cummings 2010. 7th Edition

ISBN:9780321618696

**Genes VIII**

Benjamin Lewis

Benjamin Cummings

**Molecular Cell Biology**

Harvey Lodish, Arnold Berk, Chris A. Kaiser, Month  
Krieger, Anthony Bretscher Hidde Ploegh, Angelika  
Amon and Matthew P.Scott

W.H. freeman

**Molecular Biology of the Cell**

Bruce Alberts, Alexander Johnson, Julian Lewis,  
Martin raff, Keith Roberts and Peter Walter

Garland Science

**BIOL 2262 – EVOLUTIONARY BIOLOGY**

*Dr. Amy Deacon*

*Category-A-*

**Evolution**

Stearns Stephen & Hoekstra

Oxford University Press 2<sup>nd</sup> Edition

*Category-B-*

**Conservation and the Genetics of Population**

Allendorf Fred., Luikart Gordon & Aitken Sally

Wiley-Blackwell 1<sup>st</sup> Edition

**Pattern & Process in Evolution**

Charlotte J. Avers

Oxford University Press

**BIOL 2360 - BIOCHEMISTRY II A**

*Dr. Valerie Bowrin*

*Category - A-*

**Essential Biochemistry**

C.W. Pratt and K. Cornely

Wiley & Sons 2011, 3<sup>rd</sup> Edition

*Category - B-*

**Biochemistry**

J.M. Berg, J.L. Tymoczko and L. Stryer  
W.H. Freeman 7<sup>th</sup> Edition

**Lippincott's Illustrated Reviews**

P.C. Champe, R.A. Harvey and D.R. Ferrier  
Lippincott Williams & Wilkins 3<sup>rd</sup> Edition

**Principles of Biochemistry**

D.L. Nelson and M.M. Cox  
W.H. Freeman 5<sup>th</sup> Edition

**BIOL 3063 – MARINE ECOLOGY AND OCEANOGRAPHY**

*Dr. Judith Gobin*

*Category –C-*

**Marine Biology**

Nybakken James & Bertness Mark  
Benjamin Cummings 6<sup>th</sup> Edition

**BIOL 3069 – RESEARCH PROJECT**

*Dr. Rajini Haraksingh*

*Category-A-*

**Writing Paper in the Biological Sciences**

McMillan Victoria E.  
Bedford/St. Martin's Boston 5<sup>th</sup> Edition

*Category-B-*

**Asking Questions in Biology**

Barnard C, Gilbert, F. & McGregor, P.  
Longman, 1993

**Tackling Biology Projects**

Wedgewood, M., McMillan, 1987

**BIOL 3070 – CARIBBEAN ISLAND ECOLOGY AND BIOGEOGRAPHY**

**Dr. Mike Oatham**

*Category– A-*

**Island Biogeography: Ecology, Evolution and Conservation**

R.J. Whittaker and Jose-Maria Fernandez-Palacios  
Oxford University Press; 2 edition  
ISBN: 10: 0198566123  
ISBN: 13: 978-0198566120

*Category – B –*

**Encyclopedia of Islands**

Rosemary G. Gillespie & David A. Clague  
University of California Press (August 19, 2009)  
ISBN: 10: 0520256492  
ISBN: 13: 978-0520256491

**The Natural Resources of Trinidad and Tobago**

St. George Clerona Cooper & P.R. Bacon  
Arnold Overseas (September 1, 1981)  
ISBN: 10: 0713180129  
ISBN: 13: 978-0713180121

**BIOL 3263 – INTRODUCTION TO BIOINFORMATICS**

*Dr. Adesh Ramsubhag*

*Category –B-*

**Bioinformatics: Sequence and Genome Analysis**

Mount David  
Cold Spring Harbor Laboratory (2004)

**Essential Bioinformatics**  
Xiong Jin Cambridge University Press (2006)

**Bioinformatics for Biologists**  
Pevzner Pavel & Shamir Ron  
Cambridge University Press

**Bioinformatics and Functional Genomics**  
Pevsner Jonathan  
Wiley-Blackwell 2<sup>nd</sup> Edition (2009)

**BIOL 3363 – MEDICAL BIOTECHNOLOGY**  
*Prof. Jayaraj Jayaraman*

*Category –A-*  
**Medical Biotechnology**  
Nallari P & Veugopal Rao  
Oxford University Press India (2010)

*Category –B-*  
**Medical Biotechnology**  
Pongracz J & Mary Keen  
Elsevier Health Sciences (2008)

*Category –C-*  
**Principles of Molecular Pathology**  
Killeen A  
Humana Press (2004)

**BIOL 3369 – LABORATORY SKILLS IN BIOTECHNOLOGY**  
*Dr. Georgette Briggs*

*Category –B-*  
**Principles of Gene Manipulation and Genomics**  
Primrose, S.B. & Twyman R.M.

Blackwell Publishing Ltd. 7<sup>th</sup> Edition 2006

**Molecular Biotechnology: Principles and Applications of Recombinant DNA**  
Glick B.R. & Pasternak J.J.  
ASM Press 2010

**Molecular Biology Techniques, A Classroom Laboratory Manual**  
Carson S., Miller H. & Witherow S.  
Academic Press 3<sup>rd</sup> Edition 2011

**BIOL 3468 – BIODIVERSITY AND CONSERVATION**  
*Dr. Mike Oatham*

*Category-A-*  
**Essentials of Conservation Biology**  
Primack R.B.  
Sinauer Associates, Sunderland, MA. 6th Edition (2014)

**BIOL 3469 – RESEARCH AND PRACTICAL SKILLS IN ENVIRONMENTAL BIOLOGY**  
*Dr. Mary Alkins-Koo*

*Category –B-*  
**Scientific Method for Ecological Research**  
E.D Ford  
Cambridge University Press (2000)

**Practical Methods in Ecology**  
P.A. Henderson  
Wiley (2003)

**Environmental Sampling and Analysis: A Practical Guide**

[Lawrence H. Keith](#) CRC Press (1991)

**Making Sense: A Student's Guide to Research and Writing, Geography and Environmental Sciences**

M. Northey, D.B. Knight and D. Draper  
Oxford University Press (2015)

**Fundamentals of Environmental Sampling and Analysis**

Chunlong (Carl) Zhang  
Wiley-Interscience (2007)

**BIOL 3769 – PLANT GENETIC IMPROVEMENT**

*Dr. Winston Elibox*

*Category – A-*

**Principles of Plant Breeding**

Allard R.W.  
John Wiley and Sons, NY. USA. 2<sup>nd</sup> Edition

**Principles of Crops Improvement**

Simmonds, N.W.  
Longman Inc, USA (1979)

**Principles of Crop Improvement**

Simmonds, N.W. & Smartt, J.  
Blackwell Science, Oxford, UK 2<sup>nd</sup> Edition (1999)

*Category – B-*

**Plants, Genes and Crop Biotechnology**

Chrispeels, M.J., & Sadava, D.E.  
Jones & Barlett Learning, MA, USA (2003)

*Category – C-*

**Breeding Field Crops**

Poleman, J.M.  
AVI Publishing Company, Connecticut (1979)

**Principles of Cultivar Development**

Fehr, W.R.  
Macmillan Publishing Company, NY, USA. Vol.1 & Vol.11 (1990)

**Plant Breeding in the 1990's**

Stalker, H.T. & Murphy, J.P.  
CAB International, Wallingford, UK. (1992)

**BIOL 3770 – PLANT PATHOGENS**

*Prof. Jayaraj Jayaraman*

*Category – A-*

**Principles of Plant Pathology**

Agrios, G.N.  
Academic Press 5<sup>th</sup> Edition (2005)

**Plant Pathology: Concepts and Laboratory Exercises**

Nicholas, R., Windham, M.K. & Windham, A.  
CRC Press (2004)

**Plant Pathology**

Mehrotra, R.S., & Aggarwal, A.  
Tata McGraw Hill (2003)

*Category – B-*

**Plant Pathogen-Detection & Disease Diagnosis**

Narayanasamy, P.  
CRC Press 2<sup>nd</sup> Edition (2001)



**Molecular Biology in Plants Pathogenesis and Disease Management**

Narayanasamy, P.  
Springer Vol. 1&2 (2008)

**Disease of Crop Plants in India**

Rangaswami, G. & Mahadevan, A.  
Prentise-Hall of India (2006)

**Plant Pathology**

Sharma, P.D.  
Rastogi Publications, India (2004)

**Sustainable Crop Disease Management Using Natural Products.**

Sangeetha Ganesan, Kurucheve Vadivel, Jayaraj Jayaraman  
CABI  
dx.doi.org/10.1079/9781780643236.0000

**Bacilli and Agrobiotechnology**

Editors: Islam, M.T., Rahman, M.M., Pandey, P., Jha, C.K., Aeron, A. (Eds.  
Springer  
•ISBN 978-3-319-44409-3

**BIOL 3771 – ENVIRONMENTAL PLANT PHYSIOLOGY**

*Dr. Aidan Farrell*

*Category-A-*

**Plant Ecology**

Ernst-Detlef Schulze., Erwin Back., Klaus Muller-Hohenstein., David Lawlor., Kirsten Lawlor., Gudrun Lawlor  
Springer (2005)

**Environmental Physiology of Plants**

Alastair Fitter., Robert K.M. Hay  
Academic Press (2002)

*Category-B-*

**Physiological Ecology of Tropical Plants**

Ulrich Luttge  
Springer (2008)

*Category-C-*

**Plant Physiology**

Lincoln Taiz., Eduardo Zeiger  
Sinauer Associates (2010)

**Ecology: Instant Notes**

Aulay MacKenzie., Andy Ball., & Sonia Virdee  
Taylor & Francis 2<sup>nd</sup> Edition (2001)

**Physiological Plant Ecology**

Larcher Walter  
Springer 4<sup>th</sup> Edition (2003)

**Plant Physiology Ecology**

Lambers Hans., Chapin III Stuart., & Pons Thijs  
Springer 2<sup>nd</sup> Edition (2008)

**The Physiology of Crop Yield**

Hay Robert., & Poter John  
Blackwell Publishing (2006)

**BIOL 3773 – PLANT ANATOMY**

*Dr. Judy Rouse-Miller*

*Category-A-*

**Integrative Plant Anatomy**

William Dickinson  
Academic Press (2000)

*Category-B-*

**Plant Form: An Illustrated Guide of Flowering  
Plant Morphology**

Bell Adrian & Bryan Alan  
Timber Press (2008)

**Teaching Plant Anatomy Through Creative  
Laboratory**

Peterson R.L., Peterson C.A., Melville L.H.  
NRC Research Press (2008)

**An Introduction to Plant Structure and  
Development: Plant Anatomy for the Twenty-  
First Century**

Back Charles  
Cambridge University Press 2<sup>nd</sup> Edition (2010)

*Category-C-*

**Esau's Plant Anatomy. Meristems, Cells and  
Tissues of the Plant Body: their Structure,  
Function, and Development.**  
Evert Ray & Eichhorn Susan  
Wiley-Liss 3<sup>rd</sup> Edition (2006)

**Plant Anatomy**

Mausethd5 James  
Benjamin Cummings 1<sup>st</sup> edition (1998)

**BIOL 3774 – RESEARCH AND PRACTICAL  
SKILLS IN PLANT BIOLOGY**

*Dr. Aidan Farrell*

*Category-A-*

**Research and Practical Skills in Plant Biology  
Manual**

UWI Department of Life Sciences

**BIOL 3867 – ANIMAL BEHAVIOUR**

*Dr. Amy Deacon / Dr. Mark Hulme*

*Category-A-*

**An Introduction to Animal Behavior**  
Manning Aubrey & Dawkins Marian  
Cambridge University Press (2012)

*Category-B-*

**An Introduction to Behavioural Ecology**  
Davies nick, Kerbs John & west Stuart  
Wiley-Blackwell

*Category-C-*

**Animal Behaviour: An Evolutionary Approach**  
Alcock John  
Sinauer 8<sup>th</sup> Edition

**BIOL 3868 – THE ECOLOGY OF HUMANS**

*Dr. Mary Alkins-Koo*

*Category-A-*

**The Third Chimpanzee**  
Diamond Jared  
Harper Perennial (1992)

*Category-B-*

**The Cambridge Encyclopaedia of Human  
Evolution**

Jones, Stephen, Martin, Robert & Pilbeam, David  
Cambridge University Press (1992)

**Fundamentals of Human Ecology**

Kormondy Edward & Brown, Daniel  
Pearson (1998)

**Human Adaptability**

Moran, Emilio  
Westview Press (2008)

**Human Evolutionary Biology**

Muehlenbein, Michael  
Cambridge University Press (2010)

**Human Ecology**

Schutkowski, Holger  
Springer Ecological Studies Vol. 182 (2006)

**Global Environment Outlook 5 (GEO-5)**

United Nations Environmental Programme  
UNEP (2012)

**BIOL 3869 – ZOOLOGY PROJECT**

*Dr. Mary Alkins-Koo*

*Category-B-*

**Asking Questions in Biology**

Gilbert Francis, McGregor Peter & Barnard Chris  
Prentice Hall

**BIOL3960- ENVIRONMENTAL  
MICROBIOLOGY**

**Dr. Adesh Ramsbhag**

*Category – A*

**Environmental Microbiology**

Ian L. Pepper, Charles P. Gerba, Terry J. Gentry  
Academic Press, San Diego, 2014, 3rd Edition

*Category-B-*

**Environmental Microbiology: From Genomes to  
Biogeochemistry**

Eugene L. Madsen  
Wiley-Blackwell, USA, 2015

**Environmental Microbiology - A Laboratory  
Manual**

Ian L. Pepper , Charles P. Gerba, Jeffrey W. Bredecke  
Academic Press, San Diego, USA

**BIOL 3961- PRINCIPLES OF MEDICAL  
MICROBIOLOGY**

**Dr. Adesh Ramsbhag**

*Category – B*

**Medical Microbiology**

Murray, Rosenthal, and Pfaller  
Elsevier-Mosby, 2012, 7th Ed

**Medical Microbiology**

Ryan and Ray  
McGraw-Hill, 2004, 4th Ed.

**Medical Microbiology, A Guide to Microbial  
Infections: Pathogenesis, Immunity, Laboratory  
Diagnosis, and Control**

Greenwood, Slack, and Peutherer  
Churchill Livingstone. 2007, 17th Ed.

**BIOL 3970 AQUACULTURE**

*Dr. Judith Gobin*

**Category-A- No textbook is recommended for  
purchase, but at least 2 copies should be available as  
a reference texts at the library**

*Category-B-*

**Fundamentals of Aquaculture**

Avault, J.E. et al.  
AVA Publishers, 1996

**Tilapias: Biology & Exploitation**

Beveridge, M & McAndrew, B  
Kluwer Academic Pub., 2000

**Water Quality Management for Pond Fish Culture**

Boyd, C.E., Elsevier, 1982

**Tilapia-Biology, Culture and Nutrition**

Lim, C., and Webster, C.  
Haworth Press Inc., 2006

**Tilapia Culture**

El-Sayed, A-F.  
CABI Publishing, 2006

**Recirculating Aquaculture**

Timmons, MB., and Ebeling, JM.  
Cayuga Aqua Ventures, 2010

**Fish Diseases-Diagnosis and Treatment**

Noga, E.  
Wiley-Blackwell, 2010

**Aquaponic Gardening: A Step-By-step Guide to Raising Vegetables and Fish Together**

Bernstein, S.  
New Society Publishers, 2011

**Bivalve Molluses-Biology, Culture and Ecology**

Gosling, E.  
Blackwell Publishing Inc, 2003

**The Shrimp Book**

Alday-Sanz, V.  
Nottingham University Press, 2010

**Aquaculture and the Environment**

Pillay, TVR.  
Blackwell Publishing Inc, 2004

**Freshwater Prawns-Biology and Farming**

New, M., Valenti, W., Tidwell, J., D'Abramo, J., and Kutty, M.  
Wiley-Blackwell, 2010.

**ESST 2001 – PRINCIPLES OF ENVIRONMENTAL CHEMISTRY**

*Dr. Denise Beckles*

*Category-A-*

**An Introduction to Environmental Chemistry 2e.**

Andrews, J.E., P. Brimblecombe, T.D. Jickells, P.S. Liss and B.J. Reid  
Blackwell Publishing, Malden, MA 2006

*Category- C-*

**Understanding our Environment, 3e**

Roy M. Harrison, editor  
The Royal Society of Chemistry 1999

**ESST 2002 – ENVIRONMENTAL TECHNOLOGY**

*Dr. Azad Mohammed*

*Category-A-*

**Principles of Environmental Science and Technology**

K. Saravanan. Prof. S. Ramachandran. R. Baskar  
New Age International (P) Umited 2005

*Category-B-*

**Principles of Environmental Science, Inquiry and Applications. 4<sup>th</sup> Edition**

Cummingham, W.P. and Cunningham M.A.  
McGraw-Hill, New York, 2006

**Environment 8<sup>th</sup> Edition**

Raven, P.H., Berg, L.R., Hassenzahl D.M.  
Wiley. V2012

**ESST 2006 – POLLUTION BIOLOGY**

*Dr. Azad Mohammed*

*Category-A-*

**Water Pollution Biology**

P.D. Abel  
Taylor and Francis 1998

*Category-B-*

**Understanding Environmental Pollution, 2<sup>nd</sup> Edition**

Hill, Marquita K  
Cambridge University Press.  
Cambridge, UK 2010

**Biology of Freshwater Pollution**

C.F. Mason  
Prentice Hall, 2002

**ESST 3001 – ENVIRONMENTAL FATE AND TRANSPORT**

*Dr. Denise Beckles*

*Category-A-*

**A Basic Introduction to Pollutant Fate and Transport: An Integrated Approach with Chemistry, Modeling, Risk Assessment and Environmental Legislation.**

Dunnivant, Frank M. and Elliot Andres  
Wiley-Interscience, Hoboken, NJ, 2006

*Category-B-*

**Chemical Fate and Transport in the Environment, 3<sup>rd</sup> Edition**

Hemond, H. and E.J. Fechner-Levy  
Academic Press, 2014

**Integrated Environmental Modeling Pollutant Transport, Fate and Risk in the Environment**

Ramaswami, A.; Milford, J. B.; Small, M. J.  
John Wiley and Sons, 2005

**ESST 3002 – ENVIRONMENT MODELING**

*Dr. Azad Mohammed*

*Category-A-*

**Environmental and Ecological Statistics with R.**

Qian, Song S  
CRC Press, 2011

**Environmental Modelling Course Material**  
Mathematics and Statistics  
My Elearning

*Category-B-*  
**Statistics for Environmental Science and Management**  
Manly, Bryan FJ Townend, John.  
Chapman & Hall/CRC, 2002

**ESST 3003 – ENVIRONMENTAL MONITORING AND ASSESSMENT**  
*Dr. Azad Mohammed*

*Category-A-*  
**Fundamentals of Environmental Sampling and Analysis**  
Zhang, C.  
Wiley-Interscience, 2007

*Category-B-*  
**Sampling and Analysis of Environmental Chemical Pollutants. A Complete Guide**  
E.P. Popek  
Academic Press, 2003

**Sampling and Sample Preparation for Field and Laboratory: Fundamentals and New Directions in Sample Preparation**  
Janusz Pawliszyn  
Elsevier, 2002

**ESST 3103 – ENVIRONMENTAL HEALTH**  
*Dr. Azad Mohammed*

*Category-A-*  
**Basic Environmental Health**  
Yassi A., Kjellstrom T., DeKok T., and Guidotti T  
Oxford University Press, Oxford 2001

*Category-B-*  
**Essentials of Environmental Health Second Edition**  
Friis, R.H.,  
Jones & Bartlett Learning 2012

**Environmental Health**  
Moeller, D.W.  
Harvard University Press. 2011

**ESST 3104 – CLIMATE CHANGE AND ABATEMENT TECHNOLOGY**  
*Dr. Ricardo Clarke*

*Category-A-*  
**Climatology 2<sup>nd</sup> Edition**  
Rohli, Robert V. and Vega, Anthony A  
Jones and Bartlett Learning

*Category-B-*  
**Climate Change 2013: The Physical Science Basis. Fifth Assessment Report of the Intergovernmental Panel on Climate Change.**  
Available from <https://www.ipcc.ch/report/ar5/wg1/>.  
Accessed March 23, 2014.  
Stocker, T.F., Qin, D., Plattner, G.K., Tignor, M.M.B., Allen, S.K., Boschung, J., Nauels, A., Xia, Y., Bex, V., Midgley, P.M. (eds.)  
Intergovernmental Panel on Climate Change