FACULTY OF SCIENCE & AGRICULTURE

2011/2012 REGULATIONS & SYLLABUSES
# TABLE OF CONTENTS

MESSAGE FROM THE DEAN ........................................... 2

FACULTY OF SCIENCE AND AGRICULTURE ................... 3
SECTION I – STAFF LISTING ........................................ 3
Definitions................................................................... 14
Definitions................................................................... 14
Students...................................................................... 14

SECTION II - GENERAL INFORMATION ....................... 15

SECTION III - GENERAL REGULATIONS ....................... 18

SECTION IV - REGULATIONS GOVERNING THE FSA SUMMER PROGRAMMES ........................................... 28

SECTION V - PRIZES.................................................. 29

SECTION VII - COURSE OUTLINES ......................... 32
OFFICE OF THE DEAN ............................................. 32
Optometry Programme .............................................. 32

DEPARTMENT OF AGRICULTURAL ECONOMICS AND EXTENSION .................................................. 33
A. The Agribusiness Programme ................................. 35
BSc Agribusiness Management ................................. 35
Major in Agribusiness ............................................. 36
Minor in Entrepreneurship ...................................... 37
B. The Human Ecology Programme ......................... 37
Major in Family and Consumer Sciences ................. 37
Major in Nutritional Sciences .................................. 38
Major in Foods & Food Service Systems Management 38
Minor in Sports Nutrition ..................................... 39
BSc Human Nutrition and Dietetics – Special Option 39
Diploma in Institutional and Community Dietetics and Nutrition ................................................. 40
C. Extension Programme ........................................ 41
Minor in Communication and Extension ................. 41
Diploma in Agricultural Extension ......................... 41
BSc Agribusiness Management ............................... 42
BSc Human Nutrition and Dietetics .......................... 43
BSc Human Ecology .............................................. 45

DEPARTMENT OF FOOD PRODUCTION ................ 47
BSc General Agriculture ........................................ 47
Major in Agricultural Science ................................. 48
Major in Geography ............................................ 49
Major in Tropical Landscaping ............................... 50

DEPARTMENT OF CHEMISTRY .................................. 50
Major in Chemistry ............................................... 51
Minor in Chemistry .............................................. 51
Minor in Analytical Chemistry .............................. 52
Minor in Applied Chemistry ................................. 52
BSc Chemistry and Management .......................... 52

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY ................................................. 53
Major in Computer Science .................................... 55
Minor in Computer Science .................................... 55
BSc Information Technology .................................. 56
BSc Computer Science .......................................... 56
Evening University Programmes ......................... 57
BSc (General - Major in Computer Science) .......... 57
BSc Information Technology (IT) ......................... 57
BSc Computer Science and Management ............. 58

DEPARTMENT OF LIFE SCIENCES .......................... 59
MAJORS ............................................................. 60
Major in Biochemistry .......................................... 60
Major in Biology .................................................. 61
Major in Environmental & Natural Resource Management ................................................. 61
MINORS .......................................................... 62
Minor in Biochemistry .......................................... 62
Minor in Biology .................................................. 62
Minor in Biotechnology ....................................... 63
Minor in Botany .................................................. 63
Minor in Environmental Biology ........................ 63
Minor in Environmental & Natural Resource Management ................................................. 64
Minor in Marine Biology ..................................... 64
Minor in Zoology .................................................. 64

DEPARTMENT OF MATHEMATICS & STATISTICS .... 65
Major in Mathematics .......................................... 65
Double Major in Mathematics .............................. 66
Minor in Mathematics ......................................... 67
Minor in Statistics .................................................. 67
BSc Actuarial Science ........................................... 68
Minor in Actuarial Science .................................. 68

DEPARTMENT OF PHYSICS ..................................... 69
Major in Physics .................................................. 69
Physics Minors ..................................................... 69

SECTION VIII - COURSE DESCRIPTIONS ............... 70

APPENDIX 2 - PRE-REQUISITE LISTING FOR CROSS FACULTY COURSES ......................................... 152

Return to Table of Contents
Faculty of Science & Agriculture Online
MESSAGE FROM
THE DEAN

We of the fraternity of the Faculty of Science and Agriculture are proud of the fact that you have selected The University of the West Indies and in particular the Faculty of Science and Agriculture as your tertiary level institution of choice for furthering your education.

We know that you have entered our portals with a dream, a vision with high expectations and of course a sense of commitment to work collectively with us to help you achieve your goals. We have a highly competent and committed complement of academic, administrative, technical support and service staff. We promise you the highest level of professionalism in everything we do and you should demand nothing less of us. Our faculty offers a wide selection of programmes in science and agriculture, many of which are multidisciplinary in nature and which are geared to better prepare you with the necessary skills and competencies required to function effectively in the world of work as well as to pursue further studies. We are constantly revising our curricula to ensure that they are a reflection of our client’s needs.

During your stay here you may be faced with many challenges ñ academic, financial, emotional and health among others. We have put in place appropriate support systems to help you to face these challenges. We urge you to become familiar with these support systems and to ensure that you fully utilize them as your needs arise. Only by working together can we find solutions to each other’s problems.

Welcome and may all your hopes and aspirations become realities.

Professor Dyer Narinesingh
FACULTY OF SCIENCE AND AGRICULTURE

SECTION I – STAFF LISTING

OFFICE OF THE DEAN

DEAN
Professor Dyer Narinesingh
BSc PhD (UWI)
Ext. 82112/82113
Email: dyer.narinesingh@sta.uwi.edu

DEPUTY DEANS
Professor Indar Ramnarine
BSc (UWI), MSc (Wales), PhD (UWI), MBA (Herriot-Watt)
Student Matters
Exts. 83955/83993
Email: indar.ramnarine@sta.uwi.edu

Dr. Reynold Stone
BSc (UWI), MSc (Guelph), PhD (UWI)
Student Matters
Exts. 83954/83317
Email: indar.ramnarine@sta.uwi.edu

Dr. Brian Cockburn
BSc, PhD (UWI)
Enterprise Development and Outreach
Ext. 83541
Email: brian.cockburn@sta.uwi.edu

Dr. Anderson Maxwell
BSc (UWI), PhD (Br. Col.)
Graduate Studies and Research,
Ext. 83263
Email: anderson.maxwell@sta.uwi.edu

SECRETARIAT:
ADMINISTRATIVE ASSISTANT
Mrs. Indira Ousman
BSc, Dip. Pub. Sector Mangt. (UWI),
PG Cert. Marketing Mangt. (UWI-SOCS)
Ext. 83903
Email: indira.ousman@sta.uwi.edu

DEAN’S SECRETARY
(To be announced)

ACCOUNTING ASSISTANT
Mrs. Mary Claire Licorish
Ext. 82296
Email: claire.licorish@sta.uwi.edu

SECRETARY
Ms. Laneta Teemal
Ext. 83902
Email: laneta.teemal@sta.uwi.edu

CLERICAL ASSISTANT
Mrs. Diana Sampath-Lakhan
Ext. 82242
Email: diana.lakhan@sta.uwi.edu

STUDENT SUPPORT UNIT:
Exts. 82600, 82596; 83525

ADMINISTRATIVE ASSISTANT
Mrs. Donna Caesar
BSc UWI
Ext. 83525
Email: donna.caesar@sta.uwi.edu

ADMINISTRATIVE ASSISTANT
Mrs. Tara Sookhoo
Ext. 82600
Email: tara.sookhoo@sta.uwi.edu

SECRETARY
Ms. Merlene Cindy Seelal
Ext. 82596
Email: merlene.seelal@sta.uwi.edu

CLERICAL ASSISTANT
Mrs. Sue-Ann Lee Willock
Email: sue-ann.lee@sta.uwi.edu
Ext. 83884

INFORMATION COMMUNICATION MANAGEMENT UNIT:
LAN ADMINISTRATOR
Mr. Krishna Ramdass
BSc Gen., Dip. Ed. (UWI), MCSE
Ext. 82429
Email: krishna.ramdass@sta.uwi.edu

PC NETWORK SUPPORT TECHNICIANS
Mr. Kevin Sandy
Ext. 82585
Email: kevin.sandy@sta.uwi.edu

Mr. Sean Meloney
Ext. 82585
Email: sean.meloney@sta.uwi.edu
BUSINESS DEVELOPMENT UNIT
2nd Floor, Frank Stockdale Building
Tel: (PBX): (868) 662-2002 Exts. 83327/82318
Tel: (Direct Line): (868) 662-2686/3719
Fax: (868) 663-9686
Email: bdu@sta.uwi.edu

SECRETARY
CLERICAL ASSISTANT
Ms. Cynthia Lewis
Exts. 83327/82318
Email: cynthia.lewis@sta.uwi.edu

COCOA RESEARCH UNIT
Ground Floor, Frank Stockdale Building
Tel: 1-868-662-2002 Ext. 82114/82115
Fax: 1-868-662-8788

HEAD
Professor Pathmanathan Umaharan
BSc (Peradeniya), PhD (UWI)
Professor, Genetics
Ext. 82114
Email: pathmanathan.umaharan@sta.uwi.edu

SECRETARY
Sophia Thompson
Ext. 82115
Email: sophia.thompson@sta.uwi.edu

NATIONAL HERBARIUM OF TRINIDAD AND TOBAGO
2nd Floor, Frank Stockdale Building
Tel: (868) 662-2002 Ext. 83326
Tel: (Direct Line) (868) 645-3509
Fax: (868) 663-6686
Email: herbarium@sta.uwi.edu

CURATOR
Mrs. Yasmin Baksh-Comeau
Ext. 83326
Email: yasmin.baksh-comeau@sta.uwi.edu

UNIVERSITY FIELD STATION
Uriah Butler Highway
Mount Hope
Tel: (868) 662-2750/663-1483
Fax: (868) 663-8689
Email: ufs@sta.uwi.edu

MANAGER
Dr. Altman Ragoobarsingh
Tel: (868) 662-2750/663-1483
Email: altman.ragoobarsingh@sta.uwi.edu

GRAPHITE PROJECT UNIT
Gordon Street, St. Augustine
Tel: (868) 645-9067
Fax: (868) 663-9686
Email: fsa@sta.uwi.edu

Technical Officer
Mr. Nizam Mohammed
Tel: (868) 645-9067

OPTOMETRY PROGRAMME
ACADEMIC STAFF
Bohringer, Jan
M.Sc. (ETHZ Physics), M.Sc. (UWI Agri.), Ph.D. (ETHZ Nat. Sc.), OD NSUCO
Ext. 82570
Senior Lecturer - Optometry
Email: jan.bohringer@sta.uwi.edu

Sharma, Subash
B.Sc (Hons., Cardiff), M.Sc (Aston, B’Ham), Ph.D (Leeds), FCOptom, DCLP.
Temporary Lecturer – Optometry
Ext. 82267
Email: subash.sharma@sta.uwi.edu

Wang-Harris, Sandra
Temporary Assistant Lecturer – Optometry
BA (Univ. of Georgia), OD, MPH (Univ. of Alabama)
Ext. 5011
Email: sandra.wang-harris@sta.uwi.edu

DEPARTMENT OF AGRICULTURAL ECONOMICS & EXTENSION
First Floor: Dudley Huggins Building
Tel:1-868-662-2002 Exts. 82094/83275/82213/82075
Fax:1-868-663-8355
Email: daee@sta.uwi.edu

HEAD OF DEPARTMENT
Dr. Selby Nichols
Ext. 82093
E-mail: selby.nichols@sta.uwi.edu

SECRETARIES
Mrs. Carol O’Brady-Ramlochansingh
BA (UWI)
Exts. 82094/83275
E-mail: carol.o’brady-ramlochansingh@sta.uwi.edu

Mrs. Lydia Bertrand
Ext. 82075
E-mail: lydia.bertrand@sta.uwi.edu

Ms. Melony John
Ext. 82309
E-mail: melony.john@sta.uwi.edu
CLERICAL ASSISTANTS
Ms. Camille Rocke
Ext. 83275
E-mail: camille.rocke@sta.uwi.edu

Ms. Francisca Almandoz
Ext. 82233
E-mail: francisca.almandoz@sta.uwi.edu

COMMUNICATIONS COORDINATOR
Ragbir, Sarojini
BSc, MPhil (UWI)
Ext. 82088
E-mail: sarojini.ragbir@sta.uwi.edu

ACADEMIC STAFF
Dolly, David I.
BSc, (UWI), MS (Wis.), PhD (UWI)
Lecturer, Extension
Ext. 83206
E-mail: david.dolly@sta.uwi.edu

Dyett, Patricia
BSc (Univ of The Southern Caribbean), MS, DrPH (Loma Linda)
Temp. Lecturer, Human Nutrition and Dietetics
Ext. 83914
E-mail: patricia.dyett@sta.uwi.edu

Francis-Granderson, Isabella
BSc (Howard), M.P.H., PhD (UWI)
Lecturer, Human Nutrition and Dietetics
Ext. 83209
E-mail: isabella.granderson@sta.uwi.edu

Ganpat, Wayne
BSc., MSc., PhD. (UWI)
Lecturer, Extension
Ext. 83206
E-mail: wayne.ganpat@sta.uwi.edu

Gordon, Margaret
BSc (Wisconsin Stout), PGD (Ed), MEd (UWI)
Temporary Lecturer, Consumer Sciences
Ext. 83212
E-mail: margaret.gordon@sta.uwi.edu

Hutchinson, Sharon D.
BSc, MSc (UWI), PhD (Univ. of Florida)
Lecturer, Food and Research Economics
Ext. 83279
E-mail: sharon.hutchinson@sta.uwi.edu

Joseph, Chanelle
BSc, MSc, MBA (UWI)
Coordinator of Internships/Practicums; Assistant Lecturer (Temporary)
Ext. 83277
Email: chanelle.joseph@sta.uwi.edu

Kissoonsingh, Wilhelmina
BSc., M.Phil (UWI)
Temporary Lecturer, Extension
Ext. 83205
E-mail: wilhelmina.kissonsingh@sta.uwi.edu

Nichols, Selby D. S.
BSc (UWI), MSc (UCL), PhD (UWI)
Lecturer, Human Nutrition
Ext. 83564
E-mail: selby.nichols@sta.uwi.edu

Nicome, Shirley D.
BSc, (Pratt Institute), MSc (Hunter College)
Lecturer, Community Nutrition and Food Service
Ext. 83277
E-mail: shirley.nicome@sta.uwi.edu

Patterson-Andrews, Hazel
BSc, MSc (UWI)
Temporary Lecturer, Agricultural Economics
Ext. 82445
E-mail: hazel.patterson-andrews@sta.uwi.edu

Pemberton, Carlisle A.
BSc, MSc (UWI), PhD (Manitoba)
Senior Lecturer, Agricultural Economics
Ext. 82308
E-mail: carlisle.pemberton@sta.uwi.edu

Ramcharitar-Bourne Anisa
BSc (UWI), MSc (St. Louis)
Temp. Lecturer, Human Nutrition and Dietetics
Ext. 84313
E-mail: anisa.ramcharitar@sta.uwi.edu

Lennox, Sealy
BSc, MBA, Ph.D
Temporary Lecturer, Agribusiness
Ext. 83561
E-mail: lennox.sealy@sta.uwi.edu

Seepersad, Govind
BSc, MSc, PhD (UWI)
Lecturer, Agricultural Economics
Ext. 83274
E-mail: govind.seepersad@sta.uwi.edu
## DEPARTMENT OF FOOD PRODUCTION

Main Office: Room #213 Sir Frank Stockdale Building  
PBX: (868) 662 2002 Ext. 82090  
FAX: (868) 645 0479

### HEAD OF DEPARTMENT
Dr. Lynda Wickham  
Ext. 82089  
Email: lynda.wickham@sta.uwi.edu

### ADMINISTRATIVE ASSISTANT
**Mrs. Cheryl Layne**  
Ext. 83746  
E-mail: cheryl.layne@sta.uwi.edu

### SECRETARY
**Mrs. Judy Cato**  
Ext. 82090  
E-mail: judy.cato@sta.uwi.edu

### CLERICAL ASSISTANTS
**Mrs. Deniece Deane**  
Ext. 83208  
E-mail: deniece.deane@sta.uwi.edu

**Mrs. Brenda Bannister**  
Ext. 83989  
E-mail: brenda.bannister@sta.uwi.edu

### ACADEMIC STAFF

**Ahmad, Nazeer**  
AICTA, MSc (UBC), PhD (Nott.)  
Professor Emeritus, Soil Science  
Ext. 83517  
E-mail: nazeer.ahmad@sta.uwi.edu

**Badrie, Neela**  
BSc, MSc, PhD (UWI)  
Professor, Microbiology  
Ext. 83211  
E-mail: neela.badrie@sta.uwi.edu

**Bekele, Isaac** - On Sabbatical  
BSc (Addis Ababa), MSc (Reading), PhD (Cornell)  
Senior Lecturer, Biometrics  
Ext. 83318  
E-mail: isaac.bekele@sta.uwi.edu

**Bowen-O’Connor, Clare**  
BSc (UWI), PhD (New Mexico State University)  
Temporary Lecturer, Horticulture  
Ext. 84056  
E-mail: clare.bowenoconnor@sta.uwi.edu

**Eudoxie, Gaius**  
BSc, PhD (UWI)  
Temporary Lecturer, Soil Science  
Ext. 83515  
E-mail: gaius.eudoxie@sta.uwi.edu

**Garcia, Gary** - On Sabbatical  
BSc, PhD (UWI)  
Professor, Animal Science  
Ext. 83328  
E-mail: gary.garcia@sta.uwi.edu

**Gouveia, Gregory**  
BSc, PhD (UWI)  
Lecturer, Soil Chemistry  
Ext. 83516  
E-mail: gregory.gouveia@sta.uwi.edu

**Isaac, Wendy-Ann**  
BSc, MSc (UWI), MSc (Lincoln), PhD (UWI)  
Temporary Assistant Lecturer, Crop Production  
Ext. 83323  
E-mail: wendy-ann.isaac@sta.uwi.edu

**Lallo, Cicero**  
BSc, MSc (UWI)  
Lecturer, Animal Science  
Ext. 83319  
E-mail: cicero.lallo@sta.uwi.edu

**Mlambo, Victor**  
BSc, MSc (Zimbabwe), PhD (Reading)  
Lecturer, Animal Science  
Ext. 84061  
E-mail: victor.mlambo@sta.uwi.edu

**Mohammed, Majeed** - On Sabbatical  
BSc (UWI), MSc (Guelph), PhD (UWI)  
Senior Lecturer, Crop Production  
Ext. 83324  
E-mail: majeed.mohammed@sta.uwi.edu

**Roberts-Nkrumah, Laura**  
BSc, PhD, M.Ed. (UWI)  
Lecturer, Crop Production  
Ext. 83325  
E-mail: laura.roberts-nkrumah@sta.uwi.edu

**Shaw, Paul**  
BA (Lester), MSc, PhD (London)  
Professor, Geography  
Ext. 83612  
E-mail: paul.shaw@sta.uwi.edu

**Stone, Reynold**  
BSc (UWI), MSc (Guelph), PhD (UWI)  
Senior Lecturer, Agricultural Engineering  
Ext. 83317  
E-mail: reynold.stone@sta.uwi.edu
Wickham, Lynda  
BSc, PhD (UWI)  
Senior Lecturer, Crop Production  
Ext. 82110  
E-mail: lynda.wickham@sta.uwi.edu

Wilson, Marisa  
BA (Berkley), MPhil, PhD (Oxford)  
Lecturer, Geography  
Ext. 84130  
Email: marisa.wilson@sta.uwi.edu

Wilson, Matthew  
BSc, PhD (Southampton)  
Senior Lecturer, Geography  
Ext. 84130  
Email: matthew.wilson@sta.uwi.edu

William, Holman E.  
D.V.M (Tor.), MSc (Wis.), PhD (Edin.), M.R.C.V.S.  
Professor Emeritus, Livestock Science  
Ext. 82090  
E-mail: holman.williams@sta.uwi.edu

Wilson, Lawrence  
BSc, MSc (London-UCWI), PhD (Brist.)  
Professor Emeritus, Crop Science  
Ext. 83257  
E-mail: lawrence.wilson@sta.uwi.edu

Wuddivira, Mark  
BSc, MSc (ABU), PhD (UWI)  
Lecturer, Soil Physics  
Ext. 84412  
E-mail: mark.wuddivira@sta.uwi.edu

DEPARTMENT OF CHEMISTRY
MAIN OFFICE
Ground Floor, C3 Building  
Tel: (868) 662-2002 Ext. 83570/82091  
Tel: (Direct Line) 662-6013  
Fax: (868) 645-3771  
Email: chemistrydepartment@sta.uwi.edu

HEAD OF DEPARTMENT  
Dr. Lebert Grierson  
Ext.82091  
Email: lebert.grierson@sta.uwi.edu

ADMINISTRATIVE ASSISTANT  
Mrs. Roxanne Ali-Hassan  
BSc (UWI)  
Ext.83785  
Email: roxanne.ali-hassan@sta.uwi.edu

SECRETARY  
Ms. Angela Gomez-Williams  
Ext. 83570, 82091; 662-6013  
Email: angela.gomez-williams@sta.uwi.edu

CLERICAL ASSISTANTS  
Mrs. Charmaine Joseph-Peters  
Ext. 83266  
Email: charmaine.joseph-peters@sta.uwi.edu

Ms. Joan Hernandez  
Ext. 82092  
Email: joan.hernandez@sta.uwi.edu

ACADEMIC STAFF/ DEVELOPMENT ENGINEERS  
Beckles, Denise  
AB (Harvard), MSc, PhD (Rice University)  
Lecturer, Environmental Chemistry  
Exts. 83534/82456  
Email: denise.beckles@sta.uwi.edu

Bent, Grace-Anne  
BSc, PhD (UWI)  
Lecturer, Analytical Chemistry  
Ext. 83533  
Email: grace-anne.bent@sta.uwi.edu

Chang-Yen, Ivan  
BSc (Guy), MSc, PhD (Brist)  
Senior Lecturer, Analytical Chemistry  
Exts. 83546/82273  
Email: ivan.chang-yen@sta.uwi.edu

Fairman, Richard  
BSc, PhD (UWI)  
Lecturer, Inorganic Chemistry  
Ext. 82281  
Email: richard.fairman@sta.uwi.edu

Grierson, Lebert  
BSc, PhD (Lond)  
Lecturer, Physical Chemistry  
Ext. 83532  
Email: lebert.grierson@sta.uwi.edu

Hosein, Adil  
BSc, PhD (UWI)  
Temporary Assistant Lecturer, Inorganic Chemistry  
Ext. 82455  
Email: adil.hosein@sta.uwi.edu

Jalsa, Nigel  
BSc, PhD (UWI)  
Temporary Assistant Lecturer, Organic Chemistry  
Ext. 83570  
Email: nigel.jalsa@sta.uwi.edu
John-Thomas, Nicole  
BSc (UWI), PhD (Howard)  
Lecturer, Chemical Education  
Ext. B3270  
Email: nicole.john@sta.uwi.edu

Julien, Franklyn  
BSc Chem Engineering (Hampton)  
BSc Electrical Engineering (Ryerson)  
Development Engineer - Mass Spectrometry Services  
Ext. B450  
Email: franklyn.julien@sta.uwi.edu

Kumar, Arvind  
MSc (Gorakhpur); PhD (Tripura)  
Lecturer, Inorganic Chemistry  
Ext. B3261  
Email: arvind.kumar@sta.uwi.edu

Maxwell, Anderson  
BSc (UWI), PhD (Br. Col.)  
Senior Lecturer, Organic Chemistry  
Ext. B3263  
Email: anderson.maxwell@sta.uwi.edu

Narinesingh, Dyer  
BSc, PhD (UWI)  
Professor, Organic Chemistry  
Exts. B3272/82113/82112  
Email: dyer.narinesingh@sta.uwi.edu

Pingal, Ramish  
BSc, PhD (UWI)  
Lecturer/ Lab Manager  
Ext. B3535  
Email: ramish.pingal@sta.uwi.edu

Ramsewak, Russel  
BSc, PhD (UWI)  
Lecturer, Organic Chemistry  
Ext. B3536  
Email: russel.ramsewak@sta.uwi.edu

Singh, Gurdial  
BSc (Liv.), PhD (Man)  
Professor of Chemistry  
Ext. B3538  
Email: gurdial.singh@sta.uwi.edu

Singh, Nadia  
BSc, PhD (UWI)  
Development Engineer - NMR Services  
Ext. B4053  
Email: nadia.singh@sta.uwi.edu

Stephenson, David  
B.A. (York), MPhil (CNAA), PhD (Lond)  
Senior Lecturer, Physical Chemistry  
Ext. B3260  
Email: david.stephenson@sta.uwi.edu

Taylor, Richard  
BSc, PhD (UWI)  
Lecturer, Inorganic Materials Chemistry  
Ext. B2272  
Email: richard.taylor@sta.uwi.edu

Wilson, Ann  
BSc, PhD (UWI)  
Lecturer, Physical/Corrosion Chemistry  
Ext. B2283  
Email: ann.wilson@sta.uwi.edu

Chan, Wilfred  
BSc, MSc, (Lond-UCWI), PhD (Lond)  
Professor Emeritus  
Ext. B3268  
Email: wilfred.chan@sta.uwi.edu

Mootoo, Baldwin  
BSc (Lond-UCWI), MSc (Lond), PhD (UWI)  
Professor Emeritus  
Ext. B3873  
Email: baldwin.mootoo@sta.uwi.edu

Pellet, Andrew  
BSc, PhD, D.Sc. (Brist)  
Honorary Professor

Seafort, Compton  
BSc (Lond-UCWI), PhD (Wales)  
Honorary Lecturer

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY
2nd Floor, Natural Sciences Building  
Tel: (868) 662-2002 Exts. 83080, 83640,  
Fax: (868) 645-7132

HEAD OF DEPARTMENT  
Dr. Margaret Bernard  
Ext. B3098  
Email: margaret.bernard@sta.uwi.edu

ADMINISTRATIVE ASSISTANT  
Ms. Laila Salma Khan,  
Ext. B3798  
Email: salma.khan@sta.uwi.edu

SECRETARY  
Mrs. Stacey Greene-McNeil  
Exts. B3080, B3098  
Email: stacey.greene@sta.uwi.edu

CLERICAL ASSISTANTS  
Mr. Nirvan Bhagwandeen  
Ext. B3640  
Email: nirvan.bhagwandeen@sta.uwi.edu
Ms. Niala Ragoo  
Ext. 83640  
Email: niala.ragoo@sta.uwi.edu

NETWORK SYSTEMS ADMINISTRATOR
Mr. Naresh Seegobin  
BSc, MSc (UWI)  
Ext. 82299  
Email: naresh.seegobin@sta.uwi.edu

PC NETWORK SUPPORT TECHNICIAN
Mr. Kamau Harriott  
Ext. 82299  
Email: kamau.harriott@sta.uwi.edu

SENIOR RESEARCH TECHNICIAN
Mr. Russell Joseph  
Ext. 82299  
Email: russell.joseph@sta.uwi.edu

SENIOR LABORATORY ASSISTANT
Mr. Chris Sammy  
Ext. 82299  
Email: chris.sammy@sta.uwi.edu

ACADEMIC STAFF
Bernard, Margaret  
BSc, MPhil, PhD, (UWI)  
Senior Lecturer, Computer Science  
Ext. 83998  
Email: margaret.bernard@sta.uwi.edu

Goodridge, Wayne  
BSc, MPhil (UWI), PhD (Dalhousie)  
Lecturer, Computer Science  
Ext. 83948  
Email: wayne.goodridge@sta.uwi.edu

Grandison, Tyrone  
BSc, MSC (UWI), PhD (Lond),Executive MBA, Advanced Executive MBA (IBM)  
Lecturer, Computer Science  
Ext.  
Email: tyrone.grandison@sta.uwi.edu

Hosein, Michael  
BSc, MPhil (UWI), PhD (UWI)  
Lecturer, Computer Science  
Ext. 82300  
Email: michael.hosein@sta.uwi.edu

Kalicharan, Noel  
BSc (UWI), MSc (Br Col), PhD (UWI)  
Senior Lecturer, Computer Science  
Ext. 83224  
Email: noel.kalicharan@sta.uwi.edu

Jordan, Rene  
BSc (UWI), MSc, PhD (Leeds)  
Lecturer, Computer Science  
Ext.  
Email: rene.jordan@sta.uwi.edu

Kieu, Duc  
BSc (Vietnam), MSc (Australia), PhD (Taiwan)  
Lecturer, Computer Science  
Ext. 83872  
Email: duc.kieu@sta.uwi.edu

Mohan, Permanand  
BSc (UWI), MSc (Sask), PhD (UWI)  
Senior Lecturer, Computer Science  
Ext. 83101  
Email: permanand.mohan@sta.uwi.edu

Nikov, Alexander  
MSc, PhD (TU Sofia) Dr. habil. (TU Braunschweig)  
Senior Lecturer, Computer Science  
Exts. 83117; Usability Lab - 84217  
Email: alexander.nikov@sta.uwi.edu  
Web: http://www2.sta.uwi.edu/~anikov/

Sultan, Salys  
BSc (UWI), MSc - Informatics (Italy), MSc - Media Informatics (Germany), PhD (UWI)  
Lecturer, Computer Science  
Ext. 83225  
Email: salys.sultan@sta.uwi.edu

Ward, Christopher  
BSc (UWI), MSc (Sussex), PhD (Essex)  
Lecturer, Computer Science  
Ext. 83225  
Email: christopher.ward@sta.uwi.edu

Yussuff, Sheik  
BSc (UG), MSc (Surrey), MSc (Lond)  
Lecturer, Computer Science  
Ext. 83219  
Email: sheik.yussuff@sta.uwi.edu

DEPARTMENT OF LIFE SCIENCES
MAIN OFFICE  
Ground Floor Natural Sciences Building  
PBX: 1 868 662 2002; Exts 83095; 83111; 83789; 82045  
FAX: 1 868 663 5241; 663-5469

HEAD OF DEPARTMENT
Prof. John B. Agard  
Ext. 83095  
E-mail: john.agard@sta.uwi.edu
ADMINISTRATIVE ASSISTANT
Mrs. Deborah Alleyne
BSc (UWI)
Ext. 83789
E-mail: deborah.alleyne@sta.uwi.edu

SECRETARIES
Ms. Christine Commissiong
Ext. 83111
E-mail: christine.commissiong@sta.uwi.edu

Mrs. Casandra James-De Freitas
Ext. 82045
E-mail: cassandra.james@sta.uwi.edu

CLERICAL ASSISTANTS
Mrs. Paulette Belfonte-Paul
Ext. 82047
E-mail: paulette.belfonte@sta.uwi.edu

Ms. Leela Jagdeo
Ext. 82045
E-mail: leela.jagdeo@sta.uwi.edu

ACCOUNTING ASSISTANT
Ms. Geeta Badloo
Ext. 83798
E-mail: geeta.badloo@sta.uwi.edu

ACADEMIC STAFF
Agard, John B.
BSc (UWI), MSc (Manch.), PhD (UWI)
Professor, Tropical Island Ecology
Ext. 83095
E-mail: john.agard@sta.uwi.edu

Alkins-Koo, Mary
BSc (UWI), MSc (Lond.), PhD (UWI)
Senior Lecturer, Zoology
Ext. 83094
E-mail: mary.alkins-koo@sta.uwi.edu

Baksh-Comeau, Yasmin S.
BSc, MPhil (UWI)
Curator, National Herbarium of Trinidad and Tobago
Ext. 83326
E-mail: yasmin.baksh-comeau@sta.uwi.edu

Barclay, Gregor F.
BA (Mt Allison), PhD (Aberdeen)
Lecturer, Plant Sciences
Ext. 83112
E-mail: gregor.barclay@sta.uwi.edu

Bowrin, Valerie J.
BSc (UWI), PhD (Purdue)
Lecturer, Biochemistry
Ext. 82079
E-mail: valerie.bowrin@sta.uwi.edu

Chadee, Dave D.
BSc (Dalhousie); MPhil (UWI); PhD, MPH, DSc (Dundee)
Professor of Environmental Health
Ext. 83074
E-mail: dave.chadee@sta.uwi.edu

Cockburn, Brian N.
BSc, PhD (UWI)
Senior Lecturer, Biochemistry
Ext. 83541
E-mail: brian.cockburn@sta.uwi.edu

Duncan, E. Julian
BSc (Lond - UCWI), PhD (St. Andrews)
Professor Emeritus (Botany)
Ext. 83739
E-mail: julian.duncan@sta.uwi.edu

Farrell, Aidan
BSc (Edinburgh); P.Dip, PhD (Trinity College, Dublin)
Lecturer, Plant Physiology
Ext. 82080
E-mail: aidan.farrell@sta.uwi.edu

Gobin, Judith
BSc, MPhil (UWI) PhD (Exeter)
Lecturer, Zoology
Ext. 82046
E-mail: judith.gobin@sta.uwi.edu

Hailey, Adrian
BSc (Lond), PhD (Nottingham)
Senior Lecturer, Zoology
Ext. 82206
E-mail: adrian.hailey@sta.uwi.edu

Jayaraman, Jayaraj
BSc, MSc, PhD (Annamalai)
Lecturer, Microbiology
Ext. 83092
E-mail: jayaraj.jayaraman@sta.uwi.edu

Khan, Ayub
BSc, PhD (UWI)
Senior Lecturer, Plant Sciences
Ext. 83087
E-mail: ayub.khan@sta.uwi.edu

Lawrence, Andrew
BSc, PhD (Newcastle)
Professor, Environmental Biology
Ext. 83739
E-mail: andrew.lawrence@sta.uwi.edu

Lennon, Adrian
BSc, DPhil (Sussex)
Lecturer, Biochemistry
Ext. 83216
E-mail: adrian.lennon@sta.uwi.edu
Mohammed, Azad  
BSc, PhD (UWI)  
Lecturer, Zoology  
Ext. 82046  
E-mail: azad.mohammed@sta.uwi.edu

Oatham, Mike P.  
BSc (Western Aust.), PhD (Kent)  
Lecturer, Plant Sciences  
Ext. 83088  
E-mail: mike.oatham@sta.uwi.edu

Phillip, Dawn T.  
BSc, MPhil (UWI), PhD (St. Andrews)  
Lecturer, Life Sciences  
Ext. 82208  
E-mail: dawn.phillip@sta.uwi.edu

Ramnarine, Indar W.  
BSc (UWI), MSc (Wales), PhD (Heriot-Watt)  
Professor, Applied Ichthyology (Fisheries & Aquaculture)  
Ext. 83093  
E-mail: indar.ramnarine@sta.uwi.edu

Rampersad, Sephra  
BSc (UWI), PhD (UWI)  
Lecturer, Biochemistry  
Ext. 83109  
E-mail: sephra.rampersad@sta.uwi.edu

Ramsubhag, Adash  
BSc (UWI), PhD (UWI)  
Lecturer, Plant Sciences  
Ext. 83086  
E-mail: adesh.ramsubhag@sta.uwi.edu

Rouse-Miller, Judy  
BSc, MPhil, PhD (UWI)  
Lecturer, Plant Sciences  
Ext. 83089  
E-mail: judy.rouse-miller@sta.uwi.edu

Rutherford, Mike  
BSc (Glasgow); MSc (James Cook)  
Museum Curator  
Ext 82231  
E-mail: mike.rutherford@sta.uwi.edu

Sirju-Charran, Grace  
BSc, PhD (UWI)  
Senior Lecturer, Plant Sciences  
Ext. 83110  
E-mail: grace.sirju-charran@sta.uwi.edu

Spence, John  
BSc (Hons), PhD Bristol  
Professor Emeritus (Botany/Plant Physiology)  
E-mail: johnspence@tsst.net.tt

Starr, Christopher K.  
BA (Carleton), MA (Kansas), PhD (Georgia)  
Senior Lecturer, Entomology  
Ext: 83096  
E-mail: christopher.starr@sta.uwi.edu

Umaharan, Pathmanathan  
BSc (Peradeniya), PhD (UWI)  
Professor, Genetics  
(on secondment as Head to the Cocoa Research Unit, UWI)  
Ext. 83111/82114  
E-mail: pathmanathan.umaharan@sta.uwi.edu

DEPARTMENT OF MATHEMATICS AND STATISTICS  
2nd Floor, Natural Sciences Building  
Tel: (868) 662-2002 Exts. 83553, 83641  
Fax: (868) 645-7132  
Email: dms@sta.uwi.edu

HEAD OF DEPARTMENT  
Dr. Robin Antoine  
Ext. 82048  
Email: robin.antoine@sta.uwi.edu

ADMINISTRATIVE ASSISTANT  
SECRETARY  
Mrs. Deloris Adams-Carrington  
Exts. 82048, 82049  
Email: deloris.adams@sta.uwi.edu

RECESSION - CLERICAL ASSISTANTS  
Ms. Nisha Hazelwood  
Ext. 83553  
Email: nisha.hazelwood@sta.uwi.edu

Mrs. Indira Lakhan-Ali  
Ext. 38641  
Email: indira.lakhan-ali@sta.uwi.edu

ACADEMIC STAFF  
Antoine, Robin  
BSc, MSc (UWI), MS, PhD (FSU)  
Lecturer, Mathematics  
Ext. 83554  
Email: robin.antoine@sta.uwi.edu

Bhatt, Balswaroop  
BSc, MSc, PhD (University of Rajasthan), FIMA  
Professor, Mathematics  
Ext. 83859  
Email: bal.bhatt@sta.uwi.edu
Comissiong, Donna  
BSc, MPhil, (UWI), PhD (Northwestern Univ.)  
Lecturer, Mathematics  
Ext. 83099  
Email: donna.comissiong@sta.uwi.edu

De Matas, Charles  
BSc, MPhil (UWI), MA (Pgh), PhD (UWI)  
Lecturer, Mathematics  
Ext. 83499  
Email: charles.de.matas@sta.uwi.edu

Doctor, Dane  
BSc, MSc (UWI), ASA  
Lecturer, Actuarial Science  
Ext. 83947  
Email: dane.doctor@sta.uwi.edu

Farrell, Edward J.  
BSc (UWI), M.Math. PhD (Wat), FTICA  
Professor Emeritus  
Ext. 83102  
E-mail: edward.farrell@sta.uwi.edu

Gunakala, Sreedhara Rao  
MSc (Osmania Univ. - India), MPhil (Madurai Kamaraj Univ. - India), PhD (Sri Venkateswara Univ. - India)  
Lecturer, Mathematics  
Ext. 84491  
Email: sreedhara.gunakala@sta.uwi.edu

Hamburger, Christoph  
Dipl. in Physics, Dr.rer.nat. (Maths.), Dr. habil. (Maths.), (Germany)  
Lecturer, Mathematics  
Ext. 83950  
Email: christoph.hamburger@sta.uwi.edu

Rahaman, Karim  
BSc, PhD (UWI)  
Lecturer, Mathematics  
Ext. 83082  
Email: karim.rahaman@sta.uwi.edu

Ramkisson, Harold  
BSc (UWI), MSc (Tor), PhD (Calg)  
Professor Emeritus  
Ext. 82529  
Email: harold.ramkisson@sta.uwi.edu

Sahai, Ashok  
B.A., M.A., PhD (Lucknow)  
Professor, Statistics  
Ext.83501  
Email: ashok.sahai@sta.uwi.edu

Shirley, Angela  
BSc, (UWI), MSc, PhD (Northeastern)  
Lecturer, Mathematics  
Ext. 82495  
Email: angela.shirley@sta.uwi.edu

Tripathi, Vrijesh  
BSc, MSc PhD (Agra)  
Lecturer, Statistics  
Ext. 83872  
Email: vrijesh.tripathi@sta.uwi.edu

Wahid, Shanaz  
BSc, MPhil, PhD, (UWI), FTICA  
Senior Lecturer, Mathematics  
Ext. 3081  
Email: shanaz.wahid@sta.uwi.edu

DEPARTMENT OF PHYSICS
3rd Floor, Natural Sciences Building  
Tel: (868) 662-2002 Exts. 82050, 82051  
Fax: (868) 662-9904  
Email: physics@sta.uwi.edu

HEAD OF DEPARTMENT
Prof. Ramsey Saunders  
Ext. 82050  
E-mail: physics@sta.uwi.edu

ADMINISTRATIVE ASSISTANT
Mrs. Camille Charles  
Ext: 83846  
E-mail: camille.charles@sta.uwi.edu

SECRETARY
Mrs. Virginia Briggs  
Tel: (868) 662-2002 Exts. 82050, 82051  
Fax: (868) 662-9904  
Email: virginia.sadd-nagim@sta.uwi.edu

RECEPTION - CLERICAL ASSISTANT
Mrs. Jane Sookdhan-Browne  
Ext. 83113  
Email: jane.sookdhan@sta.uwi.edu

ACADEMIC STAFF
Andrews, Roger  
BSc, PhD (Lond.)  
Lecturer, Quantum Physics  
Ext. 83114  
E-mail: roger.andrews@sta.uwi.edu

Clarke, Ricardo  
BSc, MPhil PhD (UWI)  
Lecturer, Environmental Physics  
Ext. 83121  
E-mail: ricardo.clarke@sta.uwi.edu
De Souza, Keith
BSc, MSc, (UWI), PhD (Southampton)
Lecturer, Electronics
Ext. 83103
E-mail: keith.desouza@sta.uwi.edu

Haque, Shirin
BSc, MPhil, PhD (UWI)
Senior Lecturer, Astronomy
Ext. 83123
E-mail: shirin.haque@sta.uwi.edu

Haraksingh, Indra
BSc, Dip.Ed, PhD (UWI)
Lecturer, Environmental Physics
Ext. 83122
E-mail: indra.haraksingh@sta.uwi.edu

Knight, Joscelyn
BSc (UWI), PhD (Camb.)
Senior Lecturer, Materials Science
Ext. 83125
E-mail: joscelyn.knight@sta.uwi.edu

Missan, Harinder P.S.
BSc, MSc, PhD (GNDU)
Lecturer, Materials Science
Ext. 83116
Email: harinder.missan@sta.uwi.edu

Saunders, Ramsey
BSc, (UWI), PhD, DIC (Lond.)
Professor, Physics
Ext. 82591
Email: ramsey.saunders@sta.uwi.edu

Sharma, Davinder Pal
BSc, MSc, PhD (GNDU)
Lecturer, Electronics
Ext. 83105
Email: davinder.sharma @sta.uwi.edu

Williams, Sybele
BSc, (UWI), MPhil (UWI), MSc. (Lough.)
Lecturer, Medical Physics
Ext. 83124
Email: sybele.williams@sta.uwi.edu

Charles, Michael
Senior Electronics Maintenance Officer
Electronics Workshop
Tel: 662-2002 Ext 82317
Email: noel.charles@sta.uwi.edu
Definitions

TERM                  DEFINITION
1. Co-requisite       A course which must be taken along with another specified course, in order to ensure the attainment of the complementary and/or independent competencies.
2. Course             A body of knowledge circumscribed by a syllabus to be imparted to students by sundry teaching methods and usually followed by an examination. A course may be either compulsory or elective.
3. Credit             A measure of the workload required of students. 1 Credit Hour is equivalent to 1 hour lecture/tutorial/problem class per week OR 2 hours of laboratory session per week for a semester.
4. Discipline          A body of knowledge distinguishable from other such bodies on the basis of criteria such as method of enquiry, axioms area of application.
5. Elective            A course within a programme taken by choice of the student.
6. Level              A state in a programme for which courses are designed (at UWI it is denoted by the first digit in a course code). For example BIOL 2062 is a Level II course whereas BIOL 3864 is a Level III course.
7. Major               A specified number of credits (normally 30-33) including prescribed courses from Level II & III from a single discipline (see Departmental course listing).
8. Marginal Failure    35% to 39% in the overall examination.
9. Minor               A specified number of credits (normally 15 or 16) including prescribed courses from Levels II & III from a single discipline (See Departmental course listings).
10. Option             A prescribed combination of Levels I, II and III courses, within the Faculty or across Faculties, leading to a degree.
11. Part               Portion of a programme defined by the regulations governing the programme.
12. Prerequisite        A course which must be passed before the course for which it is required may be pursued.
13. Programme          A selection of courses (designed to achieve pedagogical goals) the taking of which is governed by certain regulations and the satisfactory completion of which (determined by such regulation) makes a candidate eligible for the award of a degree/diploma/certificate.
14. Semester GPA       GPA computed on the basis of all courses done in a semester, without reference to weighting except in terms of credits. (The terms Grade Point, GPA, Quality Hours, Honours GPA, Cumulative GPA and Quality Points are defined in the UWI Grade Point Average Regulations Booklet).
15. Subject            An area of study traditionally assigned to the purview of a department.
16. Supplemental       A re-sit of the examination(s) offered on the recommendation of a Department and Faculty, to candidates who, having passed the course work component, have registered a marginal failure in that examination. Supplemental examinations are NOT offered by the Faculty of Science and Agriculture.
17. Supplementary       An oral examination, offered on the Oral recommendation of Departments and Faculty, to candidates who have registered a marginal failure in a course(s).
18. Part-Time          A part-time student will normally be a student expected to register for a maximum of 12 credits of courses per semester. These courses may be scheduled at any time of the day on the timetable.
19. Full-Time          A full-time student will normally be a student expected to register for a minimum of 15 credits per semester.
20. Evening            A student registered in an Evening University Programme will be required to attend classes on weekdays between the hours of 5:00pm.-10:00pm and on Saturdays between the hours of 8:00am-8:00pm. (Currently only a limited number of programmes are offered in the Evening University by the Faculty.)
21. Specially Admitted Students

Students admitted to pursue a limited number of courses.
A. PROGRAMME OFFERING IN THE FACULTY OF SCIENCE AND AGRICULTURE

The Faculty of Science & Agriculture (FSA) offers the following undergraduate programmes leading to the award of:

- Certificates
- Diplomas
- BSc Degrees

CERTIFICATES
- Certificate Programme in Agriculture (by distance teaching)

DIPLOMAS
- Agricultural Extension
- Institutional and Community Dietetics and Nutrition

BSC IN THE FOLLOWING OPTIONS:

1. Actuarial Science
2. Agribusiness Management
3. Chemistry and Management
4. Computer Science
5. Computer Science and Management
6. General Agriculture
7. Human Ecology
8. Human Nutrition and Dietetics
9. Information Technology
10. Optometry (in collaboration with the Faculty of Medical Sciences)

BSC (GENERAL) DEGREE WITH MAJOR(S) AND MINOR(S) IN VARIOUS DISCIPLINES AS SHOWN IN TABLE 1.

<table>
<thead>
<tr>
<th>DISCIPLINE</th>
<th>MAJORS</th>
<th>MINORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>Agricultural Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tropical Landscaping</td>
<td></td>
</tr>
<tr>
<td>Agricultural Economics &amp; Agribusiness</td>
<td>Agribusiness</td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td>Agricultural Extension</td>
<td>-</td>
<td>Communications and Extension</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>Biochemistry</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>Biology</td>
<td>Biology</td>
<td>Biology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Biotechnology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Botany</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Environmental Biology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine Biology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zoology</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chemistry</td>
<td>Chemistry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Analytical Chemistry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Applied Chemistry</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Computer Science</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Geography</td>
<td>Geography</td>
<td>-</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Mathematics</td>
<td>Mathematics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Statistics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Actuarial Science</td>
</tr>
<tr>
<td>Multidisciplinary</td>
<td>Environmental &amp; Natural Resources Management</td>
<td>Environmental &amp; Natural Resources Management</td>
</tr>
<tr>
<td>Physics</td>
<td>Physics</td>
<td>Electronics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Environmental Physics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Materials Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medical Physics and Bioengineering</td>
</tr>
</tbody>
</table>

Note: For more detailed information on options/majors/minors, please refer to the relevant Departmental sections of this booklet.
B. EVENING UNIVERSITY
1. Currently the FSA offers a limited number of programmes through the Evening University. These are Information Technology, Human Nutrition and Dietetics, Human Ecology and Agribusiness Management. See Department listings in this booklet for specific details for the programmes offered.

2. Students in the Evening University Programmes will be required to register for a maximum of 12 credits of courses per semester. There will be three official semesters per year in the Evening University. Classes will normally be held during the hours of 5:00-10:00 p.m. on weekdays and also on Saturdays. For further general information about the Evening University Programmes, please consult with the office of the Evening University at: http://sta.uwi.edu/evening/introduction.asp

C. LIST OF EXEMPTIONS WITH CREDIT
3. Students admitted to the FSA may be exempted WITH OR WITHOUT CREDITS from Level I and/or Level II courses if they:
   • are holders of degrees from approved universities,
   • have partially fulfilled the requirements of such degrees,
   • are holders of Associate Degrees from approved tertiary level institutions.

4. Where exemptions ONLY are granted students will be required to pursue alternative courses as approved by the Head of Department. Application for credit and/or exemption must be made upon entry through the Registry (Admissions). Each application will be considered on its own merit.

(a) ECIAF/CASE/SIR ARTHUR LEWIS COMMUNITY COLLEGE (SALCC) - Associate Degree Graduates in Agriculture.
   i. All such ECIAF/CASE students admitted into the Faculty WILL BE EXEMPTED WITH CREDIT from AGRI 1000 (AG133) and AGEX 1000 (AX15C) irrespective of their GPA.

   ii. All such SALCC students admitted into the Faculty WILL BE EXEMPTED WITH CREDIT from AGRI 1000 (AG133) irrespective of their GPA.

   iii. IN ADDITION all ECIAF/CASE graduates admitted into the Faculty with a GPA equal to or greater than 2.75 will be granted CREDITS WITH EXEMPTIONS from the following courses:
   • AGBU 1005, AGBU 1006, AGSL 1000, AGRI 1003, AGLS 1001, AGRI 1016, AGEX 2001. In such cases students will be allowed to register for level II/III courses.

   iv. IN ADDITION all SALCC graduates admitted into the Faculty with a GPA equal to or greater than 2.75 will be granted EXEMPTIONS WITH CREDITS from the following courses:
   • AGLS 1001, AGBU 1006, AGLS 1000, AGRI 1016, AGRI 1010

Please consult with the Department of Food Production for advice before registering.

(b) COSTAATT Associate Degree Graduates in ENVIRONMENTAL MANAGEMENT:
Students with a GPA of 2.75 or better admitted into the ENVIRONMENTAL AND NATURAL RESOURCE MANAGEMENT PROGRAMME will be exempted with credit from the following:
• BIOL 1462, AGBU 1005 and AGBU 1002, AGSL 1000.

(c) COSTAATT Associate Degree Graduates in ENVIRONMENTAL TECHNOLOGY:
Students with a GPA of 2.75 or better admitted into the ENVIRONMENTAL AND NATURAL RESOURCE MANAGEMENT PROGRAMME will be exempted with credit from the following:
• BIOL 1462, AGRI 1012, AGLS 1000, AGBU 1002.

(d) COSTAATT Associate Degree Graduates in ENVIRONMENTAL ENGINEERING:
Students with a GPA of 2.75 or better admitted into the ENVIRONMENTAL AND NATURAL RESOURCE MANAGEMENT PROGRAMME will be exempted with credit from the following: AGSL 1000.

(e) COSTAATT Associate in Science Degree in BIOLOGY
Students entering the Faculty with a GPA of 2.75 and above in the COSTAATT Associate in Science Degree in Biology will be exempted with credit from the following:
• CHEM 1062, BIOL 1261, BIOL 1061, BIOL 1462
(f) COSTAATT Associate in Science Degree in CHEMISTRY
Students entering the Faculty with a GPA of 2.75 and above in the COSTAATT Associate in Science Degree in Chemistry will be exempted with credit from the following:
• CHEM 1060, CHEM 1061

(g) COSTAATT Associate in Science Degree in PHYSICS
Students entering the Faculty with a GPA of 2.75 and above in the COSTAATT Associate in Science Degree in Physics will be exempted with credit from the following:
• PHYS 1110, PHYS 1111

(h) HUMAN ECOLOGY AND HUMAN NUTRITION AND DIETETICS PROGRAMMES
i. Holders of the Diploma in Food and Nutrition from the John Donaldson Technical Institute shall be exempted with credit from HUEC 1004.
ii. Associate degree holders from TTHTI with GPA of 2.75 or better will be EXEMPTED WITH CREDIT from HUEC 1004, COMP 1011 (CS10M) and ACCT 1002.
iii. Students with CAPE (GCE A-Level) Chemistry or equivalent will be exempted with credit from CHEM 1062.
iv. Students with CAPE (GCE A-Level) Mathematics or equivalent will be exempted with credit from AGRI 1003.

(i) CROSS FACULTY PREREQUISITES AND EQUIVALENCIES
ALL STUDENTS admitted to the FSA to read the following programmes are required to register for courses in the Faculty of Social Sciences and MUST be familiar with the list of Cross Faculty PREREQUISITES and equivalences listed in Appendix 2.
• BSc General (Agribusiness Major)
• BSc Agribusiness Management
• BSc Chemistry and Management
• BSc Computer Science and Management
• BSc Human Ecology
• BSc Human Nutrition and Dietetics

D. TRANSFER STUDENTS
5. (a) Students on transfer between different BSc degree programmes or from other programmes of study WITHIN the University may, on the basis of passes already obtained, and on the recommendation of the Departments concerned, be exempted with credits from the relevant course(s) passed.

(b) A student accepted for entry to a BSc Degree programme with qualifications from ANOTHER RECOGNIZED TERTIARY LEVEL INSTITUTION must complete a minimum of four semesters of full-time study in order to be awarded a degree from UWI.

E. STUDY ABROAD / EXCHANGE PROGRAMMES
6. The exchange programme allows students to spend one or two semesters abroad at universities in order to broaden their experience, understanding and perception of science in a different environment where a wider range of courses is available including independent study projects.

7. UWI students, while at exchange Universities, continue as regular full-time students of The University of the West Indies. They pay UWI tuition and residence fees and pursue matching and/or approved courses for credit. Credits earned abroad are transferred to UWI and applied to regular Faculty degree requirements in accordance with Regulations 43-45.

(a) FSA students who wish to participate in an exchange programme at an approved institution other than the UWI and desire to have the credits obtained used toward a UWI degree, must fill out the appropriate forms and obtain written approval in advance from the Dean and register for equivalent courses offered by FSA. FAILURE TO DO SO MAY PRECLUDE THE ACCEPTANCE OF THE CREDITS EARNED AT THE EXCHANGE INSTITUTION.

(b) Students must have a minimum Cumulative GPA of 3.0 and have spent at least two semesters of full-time study at UWI to qualify for the Exchange Programme.

(c) Where the course to be taken is to be substituted for a UWI course, the content of the course must be certified in advance by the relevant Department as being equivalent to the UWI course. Course outlines and syllabuses must be provided by the student in order to facilitate the evaluation process.
ONLY GRADES EARNED AT ANOTHER INSTITUTION AND NOT THE MARKS EARNED SHALL BE USED IN THE COMPUTATION OF THE STUDENT'S GPA.

Interested students are advised to consult with the International Office. For a current list of universities with which UWI has entered into cooperative arrangements for study visit http://sta.uwi.edu/international/ OR contact:

Mr. Sharan Singh
Director
International Office
3rd Floor, Student Administration Building
The University of the West Indies
St. Augustine Campus
Trinidad and Tobago, W.I.
Tel: 663-3348 exts. 4184, 4151 / Fax: (868) 662-6930
Skype: uwi-sta-io
Email: internationaloffice@sta.uwi.edu

SECTION III - GENERAL REGULATIONS

All students of the University are subject to the General Regulations for Students approved by the Senate of the UWI. Where there is conflict between the regulations of any Faculty and the University Regulations, the University Regulations shall apply.

A. QUALIFICATIONS FOR ADMISSIONS INTO THE FACULTY

1. In order to be admitted into the various programmes currently offered in the faculty, candidates must satisfy the University requirements for Matriculation (see the UWI General Regulations for Students) AND have passed the CSEC General Proficiency Level examination at Grades I, II or, since 1998, Grade III (or equivalent qualifications) in Mathematics, English Language and three additional subjects listed in Appendix 1 (a). IN ADDITION, candidates must satisfy the relevant conditions specified in 2-5 below:

2. Candidates must

(a) Have obtained passes in a minimum of two two-Unit subjects at CAPE, both Units at Grade V or better, (or GCE A-Level equivalent). OR

(b) Have an approved Associate Degree or equivalent certification with a minimum GPA of 2.5 (or equivalent) in a relevant programme from a tertiary level institution recognised by UWI. OR

(c) Have any other appropriate qualifications acceptable to the FSA.

3. In order to be admitted to the Diploma in Agricultural Extension candidates must:

(a) be graduates of an approved university; OR

(b) have an approved technical or professional qualification from an approved institution and have relevant work experience OR

(c) have other relevant qualifications which are deemed by the FSA to be adequate

4. In order to be admitted into the four year BSc (Optometry) degree programme, candidates must satisfy the following minimum qualifications:

(a) (i) The University requirements for matriculation AND
(ii) Obtain passes in THREE two-unit subjects at CAPE (both Units at Grade II or better) or GCE A Level equivalent. This must include Chemistry and Physics OR

(b) Have an appropriate Associate degree or equivalent certification with a minimum GPA of 3.0 (or equivalent) from a recognised Tertiary Level Institution OR

(c) Have any other appropriate qualifications and experience which are acceptable to the University.

5. In order to be admitted to the Diploma in Institutional and Community Nutrition and Dietetics, candidates must have successfully completed:

(a) A Bachelor’s Degree (no more than 5 years prior to application) with majors in Clinical (Human) Nutrition, Foodservice Systems Management, and Community Nutrition from an accredited Tertiary Level Institution.

(b) Applicants who do not qualify for entry as specified at 5 (a) above may be required to pursue qualifying courses at the University, to a minimum of 18 credits.

6. In addition to the above GENERAL QUALIFICATIONS FOR ADMISSION, candidates MUST satisfy the specific subject requirements for entry into the various FSA programmes they desire to pursue.

These are listed in Table 2
### B. PROGRAMME OFFERINGS IN THE FACULTY

**TABLE 2 CAPE (GCE A-LEVEL OR EQUIVALENT) QUALIFICATION FOR ENTRY INTO VARIOUS FSA PROGRAMMES**

<table>
<thead>
<tr>
<th>Programme</th>
<th>CAPE subject(s) (GCE A-Level or equivalent) Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc General with majors in:</td>
<td></td>
</tr>
<tr>
<td>• Agricultural Science</td>
<td>Two (2) subjects including at least one (1) science subject</td>
</tr>
<tr>
<td>• Agribusiness</td>
<td>Two (2) subjects</td>
</tr>
<tr>
<td>• Biochemistry</td>
<td>Chemistry and Biology</td>
</tr>
<tr>
<td>• Biology</td>
<td>Two (2) subjects including Biology</td>
</tr>
<tr>
<td>• Chemistry</td>
<td>Two (2) subjects including Chemistry</td>
</tr>
<tr>
<td>• Computer Science</td>
<td>Two (2) subjects including Mathematics</td>
</tr>
<tr>
<td>• Environmental &amp; Natural Resource Management</td>
<td>Two (2) science subjects - Minimum Grade of III (3) and CSEC Biology or equivalent</td>
</tr>
<tr>
<td>• Geography</td>
<td>Two (2) subjects including Geography - Minimum Grade of III (3)</td>
</tr>
<tr>
<td>• Mathematics</td>
<td>Two (2) subjects including Mathematics</td>
</tr>
<tr>
<td>• Physics</td>
<td>Two (2) subjects including Physics or Mathematics with CSEC Physics or equivalent,</td>
</tr>
<tr>
<td>• Tropical Landscaping</td>
<td>Two (2) subjects with CSEC passes in Biology or Geography</td>
</tr>
<tr>
<td>• BSc Actuarial Science</td>
<td>Two (2) subjects including Mathematics</td>
</tr>
<tr>
<td>• BSc General Agriculture</td>
<td>Two (2) subjects including one (1) science subject</td>
</tr>
<tr>
<td>• BSc Agribusiness Management</td>
<td>Two (2) subjects</td>
</tr>
<tr>
<td>• BSc Chemistry and Management</td>
<td>Two (2) subjects including Chemistry – (Minimum Grade THREE (III) or equivalent)</td>
</tr>
<tr>
<td>• BSc Computer Science</td>
<td>Two (2) subjects including Mathematics</td>
</tr>
<tr>
<td>• BSc Computer Science and Management</td>
<td>Two (2) subjects including Mathematics</td>
</tr>
<tr>
<td>• BSc Human Ecology</td>
<td>Two (2) subjects</td>
</tr>
<tr>
<td>• BSc Human Nutrition and Dietetics</td>
<td>Two (2) subjects including at least one (1) science subject and CSEC Biology and Chemistry</td>
</tr>
<tr>
<td>• BSc Information Technology</td>
<td>Two (2) subjects including one (1) science subject</td>
</tr>
<tr>
<td>• BSc Optometry</td>
<td>Three (3) subjects (Grade II or better) including Chemistry and Physics</td>
</tr>
</tbody>
</table>

FOR A LIST OF APPROVED SCIENCE CAPE/GCE A-LEVEL SUBJECTS, SEE APPENDIX I.
7. The degree of Bachelor of Science is awarded on the basis of a programme of studies selected from courses in Agriculture and/or Science disciplines together with certain Foundation courses and in some cases a number of approved courses from other Faculties.

8. FSA offers the following Bachelor’s degrees (the terms Major, Minor, Option etc., are defined in the Glossary):

(A) A BSc General degree with:
   i. a single major in a FSA discipline
   ii. a joint major in two disciplines only, one of which may be from a Faculty other than the FSA.
   iii. double majors in a single FSA discipline. This is currently offered only in Mathematics and Biology
   iv. a single major in a FSA discipline PLUS one or two minors (from FSA and/or other Faculties).
   v. BSc Options comprising a prescribed set of departmental, inter-departmental FSA or out-of-faculty courses.

C. TYPES OF COURSES OFFERED AND THEIR WEIGHTING

9. The following types of courses which may consist of both theoretical and/or practical components are offered by the University:

(a) FSA FACULTY COURSES:
   These are courses offered by FSA (in Faculty Courses). These include Level 0 (or Preliminary) courses in Physics, Chemistry, Mathematics and Biology (taught by the Open Campus on behalf of FSA), Level I (or Introductory) and Levels II & III (or Advanced) courses. Preliminary courses may be used to satisfy matriculation requirements or prerequisites for Level I, II or III courses. However, Preliminary courses do not contribute towards the credit requirements for the award of the BSc degree.

(b) SERVICE COURSES:
   These provide students with basic technical and analytical skills.

(c) OUT-OF-FACULTY COURSES:
   These are courses offered by Faculties other than FSA which may contribute towards the requirements for the award of a degree. Approval must be granted by the Dean before a student can pursue an out-of-Faculty course.

D. FOUNDATION COURSES:

   i. In order to qualify for the award of a BSc degree in the Faculty, all students must complete a minimum of nine (9) credits of Foundation Courses. These courses are Level I courses and are designed to augment the general education of students.

   ii. The three Foundation Courses (3 credits each) required to be taken by the FSA students are:
   • FOUN 1101 - Caribbean Civilisation
   • FOUN 1102 - Academic Writing for Different Disciplines (Option C)
   • FOUN 1301 - Law, Governance, Economy and Society

   iii. The Foundation Course, FOUN 1210 (Science, Medicine and Technology in Society) will NOT count for credit towards programmes in FSA.

   iv. The Foundation courses will be examined on a Pass/Fail basis and will not count towards a student’s GPA.

   v. On entry into the Faculty a student may be required to pass the English Language Proficiency Test (ELPT) before s/he can register for FOUN 1102. However, students with the following qualifications are EXEMPTED from the ELPT and as such can register directly for FOUN 1102.
   • Grade I in CSEC English Language OR
   • Grade I or II in CAPE COMMUNICATION STUDIES (or Grade A or B in General Paper in the GCE A-Level Examination).

10. Courses normally extend over one (1) semester, but in special cases may extend over two (2) semesters.

11. The weight of a course is expressed in terms of credit hours, and the credit-weighting of a course is determined by the Faculty which administers the courses. In general, a course with one contact hour per week for one semester has a weighting of one credit.

E. CO-CURRICULAR CREDITS

12. Courses involving independent, supervised activities which would earn the student co-curricular credits may be pursued upon approval by the Campus Academic Board.

   i. Students are eligible to register for co-curricular credits after their first semester of studies.

   ii. Each student is eligible for no more than three (3) credits towards his/her degree for involvement in co-curricular activities.
iii. The programme of co-curricular activities must have the approval of the Faculty and Academic Boards before it is undertaken by the student.

iv. The Deputy Dean, Enterprise, Development and Outreach, is the Faculty’s Coordinator for the co-curricular programme. Please consult with the Coordinator if you are interested in pursuing co-curricular activities.

v. Co-curricular credits will be awarded on the following basis:
   • students must be involved in the activity for at least one (1) semester
   • explicit learning outcomes must be identified for each activity
   • there must be clearly defined mode(s) of assessment for each activity

vi. The grading of co-curricular activities will be on a pass/fail basis and will not contribute to a student’s GPA

vii. The three Level I credits earned for involvement in co-curricular activities may be included as part of the overall General credit requirement for the award of the BSc General Degree. However, such credits earned shall NOT be used in the computation of a student’s Honours GPA.

viii. For further details on co-curricular offerings, please consult Student Services.

F. GENERAL REQUIREMENTS FOR THE AWARD OF THE DEGREE

13. i. In order to be eligible for the award of the BSc degree in FSA, candidates must have been in satisfactory attendance for a period equivalent to at least six (6) semesters of full-time study from entry at Level I and;

   ii. obtained passes in Levels I, II and III and Foundation Courses amounting to the number of credits shown in Table 3.

PLEASE NOTE CAREFULLY THAT THE CREDIT REQUIREMENT FOR THE AWARD OF THE BSC DEGREE VARIES DEPENDING UPON THE PROGRAMME YOU ARE PURSING.

iii. A minimum Programme (Honours) GPA of 1.00.

iv. Of the minimum 101 credits required for the award of a BSc GENERAL DEGREE, a MINIMUM of 18 credits at Level I and at least 31 (this varies with the major you are pursuing) credits at Levels II and III MUST be taken from FSA courses.

14. Students will not be granted credits for the same course offered under different majors/minors. In such cases students will be required to pursue alternate courses which must be approved by the Dean.

15. Exemptions from specific parts of the degree programme may be obtained under the provision of the Section II, C –
**LIST OF EXEMPTIONS WITH OR WITHOUT CREDITS.**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Level I credits</th>
<th>Level II - III credits</th>
<th>Additional Level I - III credits</th>
<th>Foundation</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc (General) with majors/minors</td>
<td>24</td>
<td>60</td>
<td>8</td>
<td>9</td>
<td>101**</td>
</tr>
<tr>
<td>BSc (Options):</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Actuarial Science</td>
<td>36</td>
<td>65</td>
<td>---</td>
<td>9</td>
<td>110</td>
</tr>
<tr>
<td>• General Agriculture</td>
<td>35</td>
<td>69</td>
<td>---</td>
<td>9</td>
<td>113</td>
</tr>
<tr>
<td>• Agribusiness Management</td>
<td>33</td>
<td>69</td>
<td>---</td>
<td>9</td>
<td>111</td>
</tr>
<tr>
<td>• Chemistry and Management</td>
<td>30</td>
<td>63</td>
<td>---</td>
<td>9</td>
<td>102</td>
</tr>
<tr>
<td>• Computer Science</td>
<td>36</td>
<td>64</td>
<td>---</td>
<td>9</td>
<td>109</td>
</tr>
<tr>
<td>• Computer Science and Management</td>
<td>36</td>
<td>60</td>
<td>---</td>
<td>9</td>
<td>105</td>
</tr>
<tr>
<td>• Human Nutrition and Dietetics</td>
<td>36</td>
<td>64</td>
<td>---</td>
<td>9</td>
<td>109</td>
</tr>
<tr>
<td>• Human Ecology</td>
<td>30</td>
<td>63</td>
<td>---</td>
<td>9</td>
<td>102</td>
</tr>
<tr>
<td>• Information Technology</td>
<td>36</td>
<td>60</td>
<td>---</td>
<td>9</td>
<td>105</td>
</tr>
<tr>
<td>• Optometry</td>
<td>39</td>
<td>72</td>
<td>---</td>
<td>9</td>
<td>120</td>
</tr>
</tbody>
</table>

**TABLE 3**

**MINIMUM CREDIT REQUIREMENTS**

**G. REGISTRATION**

16. (a) A student pursuing a degree in the Faculty may register as a full-time student OR as a part-time student OR as an Evening University student. A student may apply to change his/her status during the tenure of the degree.

(b) A student who is in full-time employment may only pursue a degree as a part-time student or as an Evening University student. Permission for this will depend on submission to the Dean, of a certificate prepared by the Faculty and signed by the student’s employer, stating that the student will be given the necessary time release throughout the period of registration.

(c) Full-time students may take up employment for not more than 12-hours per week without losing their full-time status. A student who is employed for more than 12-hours per week shall be registered as a part-time or an Evening student.

(d) No allowances with respect to the attendance at classes, laboratories, tutorial or examinations will be made for students on the conditions of their employment.

(e) A full-time student is normally expected to register for a minimum of 15 credits of Faculty courses per semester.

(f) A part-time student is normally expected to register for a maximum of 12 credits of courses per semester offered under the day programme. Part-time students will NOT be allowed to attend Evening University programmes.

17. (a) A student must register for courses s/he wishes to pursue at the beginning of each SEMESTER WITHIN THE PRESCRIBED PERIODS. (Check the University Web Site and Notice Boards for actual dates).

(b) A student’s registration is deemed complete only after his/her financial obligations to the University have been fulfilled.

18. Changes to the registration (add and drop courses) will only be permitted within the prescribed periods in Semesters I and II. (Check the University Web Site and Notice Boards for actual dates).

19. (a) Registration for any course constitutes registration for the associated examination. A student will therefore be deemed to have failed the course if s/he does not attend the examination without having previously been allowed to withdraw from the course (see Reg. 18), or without having tendered evidence of illness at the time of the examinations certified by a medical practitioner recognised by the University. In the latter case, the medical report MUST REACH THE HEALTH SERVICE UNIT (HSU) NO LATER THAN SEVEN (7) DAYS AFTER THE DATE OF THE EXAMINATION CONCERNED.
(b) Medical Certificate/Report forms are available online at http://sta.uwi.edu/onlineForms.asp

(c) In the case of medicals, no Penalty will apply only if the student has passed the coursework in that particular course.

20. (a) A student who has passed a course will not be permitted to re-register for that course.

(b) A student may not be allowed to register for a course on the grounds of repeated failure or poor performance in the course.

H. PROGRESS THROUGH THE PROGRAMME

21. (a) Students admitted to the various programmes in the Faculty, in addition to registering for the required Level I courses, may also register for a maximum of 12 credits in ONE of the Preliminary (Level O) courses offered (Biology, Chemistry, Mathematics or Physics) for the purpose of obtaining prerequisites for entry into a programme of choice. However, the total permissible credit loading per semester must not be exceeded.

(b) Students may not register for Preliminary courses in a subject which overlaps substantially with CAPE/GCE A-Level courses (or equivalent) previously passed.

(c) Full-time students, are expected to register for Level I Faculty courses equivalent to a MINIMUM of fifteen (15) credits per semester.

(d) Part-time students are expected to register for courses equivalent to a minimum of 6 credits per semester.

(e) Evening University students are expected to register for courses equivalent to a minimum of 6 credits per semester.

(f) In order to satisfy the minimum requirement for entry to the advanced part of the programme (Level II and III), a student must normally record passes in Level I courses equivalent to a minimum of twenty-four (24) credits of Faculty courses.

(g) A student who has obtained passes in Level I Faculty courses equivalent to eighteen (18) credits in the first two (2) semesters of full-time study may, on the approval of the Dean, be allowed to register for a limited number of Level II courses in addition to those courses required to complete Level I requirement. However, the total credit loading permissible credit loading per semester must not be exceeded.

22. The maximum number of credits (including those from foundation courses) for which a student may normally register in any semester is as follows:

(a) In the case of students who have NOT FULLY satisfied the requirements for completion of the Introductory Part of the programme (i.e. Level I requirements).
   i. twenty-one (21) credits subject to a MAXIMUM of eighteen (18) credits from Faculty courses, if the student is registered full-time;
   ii. twelve (12) credits if the student is registered as a part-time student.
   iii. twelve (12) credits if the student is registered as an Evening University student.

(b) In the case of candidates who have fully satisfied the requirements for completion of the Introductory Part of the programme (i.e. students fully in the Advanced Part of the programme).
   i. sixteen (16) credits from Faculty courses and 3 credits of Foundation courses.
   ii. twelve (12) credits if the student is registered part-time.
   iii. twelve (12) credits if the student is registered as an Evening University student.

(c) STUDENTS ARE REQUIRED TO COMPLETE ALL LEVEL I COURSE REQUIREMENTS WITHIN FOUR SEMESTERS OF ENTRY INTO THE PROGRAMME OF STUDY.

(d) Full-time students who require NOT MORE THAN TWENTY-FOUR (24) CREDITS in order to graduate, have satisfied all Foundation course requirements, and are exempted from laboratory coursework in at least one course, may be allowed to register for twenty-four (24) credits of Faculty courses. This requires permission from the Dean.
I. DECLARATION OF MAJORS AND MINORS

23. (a) Students are required to register for a major/option upon entry into the Faculty. However, students may request a change in major/option as they progress along their degree. Students desirous of pursuing majors in a Faculty other than FSA must apply for and obtain official approval from that Faculty before pursuing such majors.

(c) STUDENTS MUST MAKE A DECLARATION OF INTENT FOR THEIR PROPOSED MAJOR(S) / MINOR(S) / OPTIONS BY THE END OF THEIR FIRST YEAR.

(c) STUDENTS MUST MAKE A FINAL DECLARATION OF THEIR PROPOSED MAJOR(S) / MINOR(S) / OPTIONS BY THE END OF THE CHANGE IN REGISTRATION PERIOD OF THE SEMESTER IN WHICH THEY INTEND TO GRADUATE. NO FURTHER CHANGES WILL BE PERMITTED AFTER THIS DEADLINE.

(d) STUDENTS MUST GRADUATE AS SOON AS THEY HAVE MET THE REQUIREMENTS FOR THE DEGREE FOR WHICH THEY HAVE DECLARED.

J. EXAMINATIONS

24. In order to pass a course, a candidate must have been in satisfactory attendance at the course, (a minimum of 75% attendance is required) and must have satisfied the examiners in the associated examinations.

25. The examination associated with each course shall be conducted mainly by means of written and/or practical papers, normally taken at the end of the semester in which the candidate has registered for the course concerned. However, oral examination as well as performance in coursework in the form of essays, in-course tests, research papers, projects, or continuous assessment of theoretical and/or practical work may contribute towards the final grade awarded in a course. (Consult individual course outlines and the departments for the specific modes of assessment.)

26. When practical papers and/or practical coursework contribute towards an examination, candidates must satisfy the examiners in both the theoretical and practical aspects of the course. On the basis of performance in the practical part of the course, candidates may, on the recommendation of the Department concerned, be exempted from the practical part of the final examination.

27. (a) A student may be granted permission by the Board of Examiners to sit supplementary oral examinations in failed Level II/III courses accounting for not more than eight (8) credits provided that the candidate has completed all level I requirements and passed a minimum of 30 levels II / III credits.

(b) Candidates passing such oral examinations will be awarded the minimum passing mark of 40% (Grade D, Quality Point 1.0) and will not have any right of appeal or review of the outcome.

(c) Candidates offered oral examinations may choose to decline the offer.

28. A candidate who fails the examination associated with a course may be given permission to repeat the course and the examination on a subsequent occasion.

29. In the event that such a candidate has satisfied the examiners in the practical coursework component of the failed course, the candidate may, on the recommendation of the relevant Department, be exempted from the laboratory coursework. Check Departmental regulations for specific details.

30. Remedial courses in FSA offered as part of the Summer School Programme are considered repeat courses.

31. The Academic Board of a candidate’s Campus, on the recommendation of the Faculty Board concerned, may debar a candidate from writing the examination associated with a course, based on unsatisfactory attendance at lectures /laboratory classes. The grade recorded for such a candidate in that course will be Absent /Fail.

K. TIME LIMITS FOR COMPLETION AND ENFORCED WITHDRAWALS

32. (a) A Semester grade point average (GPA) based on grades earned on all approved courses for which the student is registered in a semester, will be used as the basis for the determination of his/her academic standing.

(b) Effective from August 2011, for all new students entering the University, a student whose GPA in any Semester is less than 1.00 will be deemed to be performing unsatisfactorily and will be placed on academic warning. The GPA of 0.75 or less as the basis for academic warning remains in effect for those students who entered the UWI prior to August 1, 2011.
33. For the purposes of Regulation 34 below, any semester in which a student is registered part-time, will be counted as half of a semester of full-time study.

34. (a) Students admitted to the three-year programme shall complete the requirements for the degree in a minimum of six (6) or a maximum of ten (10) semesters of full-time study.
(b) Students who cannot complete the programme within the maximum period stated in Regulation 34 (a) above will normally be required to withdraw from the Faculty at the end of the academic year in which the maximum time limit is reached.

35. In the event that a student has exhausted the maximum period stated in 34(a) above, but still requires for the completion of the degree programme:
   EITHER:
   (a) passes in courses totalling no more than eight (8) credits,
   OR
   (b) passes in Foundation courses only.

The Faculty Board may at its discretion recommend to Academic Board an extension of the period of study by one (1) or two (2) consecutive Semesters.

36. For the purposes of Regulation 34(a) above, any semester for which a student has obtained Leave of Absence from the Faculty shall not be counted.

37. Notwithstanding Regulations 33 and 34 above, Academic Board may, on the recommendation of the Faculty Board, require a student to withdraw from the Faculty at the end of any semester on grounds of persistent neglect of work and/or repeated failure in examinations.

38. A student required to withdraw from another Faculty may apply to register in the FSA if, having carefully assessed the circumstances surrounding the withdrawal, it is felt that this is in the best interest of the student’s educational goals and that the student satisfies the Faculty’s entry requirements;

39. A student who was required to withdraw for reasons of failure to progress may be re-admitted to the Faculty on the following conditions:
   (a) A minimum of TWO consecutive SEMESTERS have passed since the date of withdrawal.
   (b) The Faculty is satisfied that the contributing circumstances for the withdrawal have altered substantially.
   (c) All grades previously obtained, (except those for courses to be repeated having been deemed outdated), shall continue to apply for the purpose of determining the student’s GPA.
   (d) Courses pursued in the UWI Summer School during the period of withdrawal shall be included in all relevant grade point average calculations if the student re-enters the Faculty.

40. A student who was required to withdraw from the Faculty MUST REAPPLY FOR ENTRY THROUGH THE NORMAL PROCEDURE. THIS MUST BE DONE PRIOR TO THE DEADLINE FOR APPLICATION. A student who was required to withdraw and was re-admitted and then required to withdraw for a second time, will not normally be considered for re-admission again until a minimum period of five years has elapsed.

L. LEAVE OF ABSENCE AND VOLUNTARY WITHDRAWAL

41. (a) A student who wishes to be absent from the Faculty for a semester or more must apply ONLINE for Leave of Absence.
(b) Leave of Absence will not be granted for more than two (2) consecutive semesters in the first instance. However, students may apply for an extension of leave.
(c) Leave of Absence will not be granted for more than four (4) consecutive semesters.
(d) Applications for Leave of Absence should normally be submitted not later than the end of the change in registration period in the relevant semester.
42. A student who does not register for any course during a semester without having obtained Leave of Absence will be deemed to have withdrawn from the Faculty and will have to re-apply for entry into the Faculty if s/he so desires.

43. A student who voluntarily withdraws from the University and then applies for re-admission within five (5) years shall be granted exemption and credit for all courses previously passed unless the Department concerned declares that the material covered in a course has become outdated. All grades previously obtained except those for courses declared outdated shall be used in the determination of the GPA of such a student.

M. GPA AND CLASS OF DEGREE AWARDED
44. (a) All students in the Faculty, irrespective of their date of entry into the Faculty, are subjected to the current GPA regulations.

(b) A Cumulative grade point average based on all courses completed for which grades have been obtained (excluding Preliminary courses, those taken on a Pass/Fail basis, audited courses and courses designated I or IP), will be calculated and recorded on the student’s transcript.

(c) A Programme (Honours) grade point average based on grades obtained on ALL LEVEL II AND III COURSES registered for, including all courses in the declared major(s)/minor(s)/option whether passed or failed, will be used in the calculation for determination of the class of the degree. (See Registration 44 and 45 for the relationship between marks, (Programme) grade point average and class of degree).

(d) First Class Honours, Second Class Honours (Upper and Lower Division), or a Pass degree will be awarded on the basis of the Programme (Honours) Grade Point Average (GPA).

N. GRADING SCHEME
45. The Grading Scheme used in the Faculty of Science & Agriculture is as follows:

<table>
<thead>
<tr>
<th>Mark</th>
<th>Grade</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>86-100</td>
<td>A+</td>
<td>4.3</td>
</tr>
<tr>
<td>70-85</td>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>67-69</td>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>63-66</td>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>60-62</td>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>57-59</td>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>53-56</td>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>50-52</td>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>47-49</td>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>43-46</td>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>40-42</td>
<td>D</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Minimum pass grade is a D with a quality point of 1.0.

O. CLASS OF HONOURS
46. A student’s class of degree will be based on their Programme (Honours) GPA as follows:

<table>
<thead>
<tr>
<th>Honours</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>3.60 – 4.3</td>
</tr>
<tr>
<td>Upper Second</td>
<td>3.0 – 3.59</td>
</tr>
<tr>
<td>Lower Second</td>
<td>2.0 – 2.99</td>
</tr>
<tr>
<td>Pass</td>
<td>1.0 – 1.99</td>
</tr>
</tbody>
</table>

NB: Borderline cases are not considered under the current GPA regulations

P. AEGROTAT DEGREE
47. (a) A candidate who, by virtue of illness, was prevented from attending examinations or part of the examinations associated with one or more Level II/III courses in the year of anticipated graduation may apply to the Board for Undergraduate Studies through the University Registrar for an Aegrotat pass in the course. Such an application will only be granted if all the following conditions are satisfied:
i. The appropriate Head of Department reports that, on the basis of the candidate's performance during the period preceding the examinations, the candidate was expected to pass the examinations concerned and has satisfactorily completed any associated coursework.

ii. The application reaches the University Registrar not later than thirty (30) days after the date of the last paper in the examination concerned.

iii. The application is accompanied by a medical certificate attesting to the illness and issued by a medical practitioner recognised for this purpose by the University.

(b) No grade will be awarded in respect of an Aegrotat pass, and a candidate, having been awarded an Aegrotat pass, will not be allowed to re-enter the examination for the course concerned on a subsequent occasion. An Aegrotat pass may not be used to satisfy a Prerequisite for other Level II/III courses.

(c) A candidate, having satisfactorily completed the degree programme, who includes Aegrotat passes in courses counted for the degree programme, will be eligible for the award of an Aegrotat degree, provided that both of the following conditions are satisfied:

i. the courses in which the Aegrotat passes have been granted (and which need to be counted towards the award of the degree) are equivalent to no more than twenty-four (24) credits.

ii. no more than sixteen (16) credits mentioned in c (i) above arise from courses making up the candidate's major.

(d) The Aegrotat degree will be awarded without Honours or Class.

Q. DEAN'S HONOUR ROLL
48. ELIGIBILITY FOR INCLUSION ON THE DEAN'S HONOUR ROLL
The following guidelines are applicable:

(a) Inclusion on the Dean's Honour Roll will be on a Semester basis. The Summer Programme will not be considered.

(b) Students must obtain a Semester GPA of 3.8 and above in any semester

(c) Students must have passed a minimum of 15 FACULTY Credits in the semester. Credits gained for the following will NOT be taken into consideration in computing the Dean's Honour Roll:
   - Foundation courses
   - Co-curricular offerings
   - Internship programmes
   - Audited courses
   - Summer courses

(d) Repeat courses will be INCLUDED in the computation of the Dean's Honour Roll

(e) Special consideration will be given to students who are “differently abled” and who have:
   - Obtained a semester GPA of 3.8 and above but who have registered for less than 15 Faculty credits.

   Such students MUST declare and provide supporting documents as evidence of their disability at the start of the semester.

   Decisions for inclusion of such “differently abled” students in the Dean's Honour Roll will be taken at the Faculty's Board of Examiners Meeting. ALSO SUCH STUDENTS MUST BE REGISTERED WITH ACADEMIC ADVISING DISABILITIES LIAISON UNIT (AADLU).

Approved Science CAPE/GCE A Level Subjects:

- Biology
- Botany
- Chemistry
- Computer Science
- Environmental Science
- Geography
- Geology
- Zoology
- Information Technology
- Applied Mathematics
- Further Mathematics
- Pure Mathematics
- Mathematics
- Physics
- Mathematics

Cross Faculty Prerequisites and Equivalencies

ALL STUDENTS admitted to the FSA to read the following programmes are required to register for courses in the Faculty of Social Sciences and MUST be familiar with the list of cross-faculty prerequisites and equivalences listed. See Recommended Prerequisite Listing for Cross Faculty Courses at back of this booklet.

I. BSc Actuarial Science
ii. BSc Agribusiness Management
iii. BSc Chemistry and Management
iv. BSc Computer Science and Management
v. BSc Human Ecology
vi. BSc Human Nutrition and Dietetics
SECTION IV - REGULATIONS GOVERNING THE FSA SUMMER PROGRAMMES

The FSA generally offers remedial courses for students who are repeating lab-based and/or non lab-based courses during the summer. The FSA may also offer a limited number of full courses that are non lab-based in the Summer for the first time. The maximum number of credits for which a student may register in Summer is normally nine (9). In case of students repeating 6 credits courses at level I, the maximum number of credits is 12 (two courses).

1. Eligibility for Admission to the Summer School Programmes

The following categories of students are eligible for admission to the Summer School Programmes:

a. Registered students of the University who have to repeat any of the course(s) offered.

b. Registered students of the University who have not taken the course(s) previously but fall into one of the following categories:-
   - Students of the University who have not yet completed the requirements for the degree, diploma or certificate programme for which they are registered
   - Registered UWI students from other UWI campuses

c. Students of the University who have been granted (a) leave of absence for Semester 1 and/or 2 preceding the Summer School Programmes, or (b) permission to Write “Examinations Only”.

d. Other persons, not students of the University, who are eligible to matriculate at either the Normal or Lower level or as a Mature student

2. Applications

Please check the Campus Website for further information.

3. Attendance

MINIMUM ATTENDANCE of 75% Of Lectures/Tutorials is required. Attendance at laboratory classes/field trips is compulsory.

4. Course Selection and Registration

Persons desirous of pursuing courses in the Faculty's summer programme are required to check the website at http://www.sta.uwi.edu/ or consult the Student Support Unit in the Dean's Office and the Faculty Notice Boards and timetables for a list of courses being offered in the Summer School Programmes before registering.

5. Late Registration

a. Students may be permitted to register up to the end of the 2nd week of the start of the Summer School Session on payment of an additional late registration fee of TT$150.

b. In cases where examination results for Semester II are declared after May 31, students may be permitted to register up to the end of the 2nd week of the start of the Summer School session.

c. Summer School students may apply for a change of registration by no later than the end of the 2nd week of the start of the Summer School session.

6. Examinations & Course Loads

a. Examinations for courses taught in the Summer School shall be conducted in accordance with the University Examination Regulations.

b. Summer School students shall write the University Examinations appropriate to the course(s) for which they are registered.

c. Students shall not normally be permitted to register for more than a maximum of nine (9) credits in any given Summer School Session. Students are advised to check the timetable before registering.

d. Finalising students may apply, through the Faculty Dean to the Assistant Registrar Student Affairs (Admissions), to register for a maximum of 12 credits.

e. A student is deemed as finalising if that student has only 3 or 4 courses left to complete the degree/certificate/diploma requirement.

f. Students who are not in their Final year of study may apply for permission to register for a maximum of 12 credits no later than the 1st week of Summer School.
g. Students may request permission to carry forward coursework marks for courses pursued in Semester I and/or II to the Summer Programme.

h. All requests must be submitted, through the Faculty Dean, to the Assistant Registrar, Student Affairs (Admissions) before the student is allowed to register.

NOTE: Registration for a course offered in the Summer School implies registration for the examination of that course.

7. Award of Credit / Exemption
   a. Credits for courses successfully completed in the Summer School shall be granted to registered students of the University including those on approved leave of absence.
   b. Persons wishing to pursue a course(s) to be considered as “Not for Credit” (NFC) must seek approval prior to registering for the course. All such requests must be made, in writing, or on the required form, to the Dean of the Faculty. Students will not subsequently have such credit altered.
   c. Summer School students who have not been offered a place at the University have no automatic right of acceptance into any Faculty of the University.
   d. Persons who are accepted into the University may be granted credit/exemption for courses successfully completed in the Summer School provided that five (5) yeas have not elapsed since the completion of the relevant course(s).
   e. Students who do not satisfy normal matriculation may not use the credits gained in the Summer School for both matriculation and degree purposes.

8. Application for Withdrawal
   a. Students may withdraw from a course by notifying the Assistant Registrar (Admissions) in writing and copying the respective Faculty’s Deans or Summer School Coordinator. The student should clearly state the reasons for the withdrawal and complete the required application form for refund where applicable.
   b. Applications for withdrawal from a course must reach the Assistant Registrar (Admissions) no later than two (2) weeks after teaching has begun. Students, who wish to withdraw from a course after the deadline date, must apply to Academic Board, through their respective Faculty Office.

9. Refund Policy
   a. A refund penalty is charged as follows:
      i. No penalty before May 30th, 2012
      ii. 25% of tuition fees up to June 2, 2012 (up to the end the 1st week of teaching)
      iii. 30% of tuition fees up to June 9, 2012 (up to the end of the 2nd week of teaching)

10. Payment of Fees
    a. Part payment of fees is NOT allowed
    b. Fees must be paid at any Branch of Republic Bank Ltd. using the bank deposit slip provided
    c. Registration in the summer session will carry a non-refundable registration fee
    d. Courses not dropped by the deadline date will be counted and the student would be billed accordingly.
    e. Late registration fee/late payment penalty includes the registration fee PLUS the Late Registration fee/late payment penalty.

SECTION V - PRIZES
A number of prizes are offered on an annual basis to students in the Faculty based on outstanding academic performance. The following is a list of such prizes. Note that this list is subject to alteration.

FACULTY PRIZES
These prizes are awarded to all First Class Honour students within the Faculty by the Office of the Dean.

DEPARTMENTAL PRIZES:
SCHOOL OF AGRICULTURE

DEPARTMENT OF AGRICULTURAL ECONOMICS & EXTENSION
THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in Agribusiness Management: Year I

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in Human Ecology: Year I

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in Human Nutrition and Dietetics: Year I

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in Agribusiness Management: Year II

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in Human Ecology: Year II
THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in Human Nutrition and Dietetics; Year II

THE JOE PIRES MEMORIAL PRIZE
(formerly THE CARIBBEAN CHEMICALS & AGENCIES LTD)
Awarded for the best performance in Agricultural Extension: Years II & III

THE DR. SUNNEY D. ALEXIS & COLLETTE LEWIS-JAMES MEMORIAL PRIZE
Awarded for the best performance in BSc Human Nutrition and Dietetics: Year III

THE INTER-AMERICAN INSTITUTE FOR COOPERATION ON AGRICULTURE (IICA) AWARD PRIZE
Awarded for the best final year project demonstrating excellence in Human Nutrition & Dietetics: Year III

THE INTER-AMERICAN INSTITUTE FOR COOPERATION ON AGRICULTURE (IICA) AWARD PRIZE
Awarded for the best final year project demonstrating excellence in Agribusiness Management: Year III

THE MARKETING & DISTRIBUTION PRIZE
Awarded for the best performance in Marketing: Year III

THE SCOTIA BANK PRIZE
Awarded for the best performance in Finance and Accounting: Year III

THE AGRIBUSINESS COMMUNITY SERVICE PRIZE
Awarded for outstanding service to the Agribusiness Community donated by Agribusiness Alumni: Year III

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in BSc Human Ecology: Year III

THE DEAN’S PRIZE
Awarded for the best performance in the Diploma in Institutional and Community Dietetics and Nutrition

DEPARTMENT OF FOOD PRODUCTION

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in the BSc General Agriculture - Year I

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in the BSc General Agriculture - Year II

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in the BSc General Agriculture - Year III

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in Agricultural Science Major: Year I

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in Agricultural Science Major: Year II

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in Agricultural Science Major: Year III

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in Geography: Year I

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best performance in Geography: Year II

THE FREDERICK HARDY PRIZE
This prize shall be awarded to the Part III student who obtains the highest average marks in courses taken in Soil Science at the Parts II and III examinations including the Project.

THE LE GENDRE & CO. LTD. PRIZE
Awarded for the best performance in Crop Science over Years II & III

FRANK GUMBS MEMORIAL PRIZE
Awarded for the best final year project in Soil Chemistry or Soil Physics

THE PRINCIPAL’S PRIZE
Awarded for the best performance in BSc Agriculture - General: over Years I - III

THE S. NORMAN GIRWAR AWARD FOR EXCELLENCE
An award in honour of the late Mr. S. Norman Girwar. Awarded to the academically excellent student for the best final year project in Food Production.

THE W.E. FREEMAN PRIZE
This prize valued at $500.00 cash and $500.00 trophy is awarded to the best final year project on the Biology of Cocoa and is a joint School of Agriculture/School of Science Prize.

THE THOMPSON, BADRIE-MAHARAJ & ASSOCIATES ATTORNEYS AT LAW PRIZE:
Awarded to the best final year undergraduate project either in microbiology or food safety in the School of Agriculture.

THE GARDEN CLUB OF TRINIDAD AND TOBAGO PRIZE
Awarded to the best practical paper on a Horticulture related topic
THE PROFESSOR LAWRENCE WILSON PRIZE
Awarded for the best undergraduate final year project in post production technology

THE GARY GARCIA PRIZE
Awarded for the best graduating student in Livestock Science

SCHOOL OF SCIENCE
DEPARTMENT OF CHEMISTRY

THE WESTERN SCIENTIFIC PRIZE
Awarded for the best Year I performance in Chemistry

THE BERGER PAINTS TRINIDAD LTD. PRIZE
Awarded for the best Year II performance in Chemistry

THE CHROMASPEC LTD. PRIZE
Awarded for the best Year II performance in Chemistry & Management

THE INDUSTRIAL GASES LTD. PRIZE
Awarded for the best Year III performance in Chemistry

THE SOUTHERN SYSTEMS LTD. PRIZE
Awarded for the best graduating student in Chemistry

THE PERKIN ELMER/SCALAR SCIENTIFIC PRIZE
Awarded for the best performance in Analytical Chemistry

THE WESTERN SCIENTIFIC PRIZE
Awarded for the best Year III performance in Chemistry & Management

THE CHERYL BOWLES CHALLENGE TROPHY PRIZE
Awarded for the best Final Year Analytical Chemistry Project

THE ANIL DEISINGH PRIZE
Awarded for the best Graduating Student entering the Chemistry Postgraduate Programme

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

COMPUTER SCIENCE

THE IBM WORLD TRADE PRIZE
Awarded for the best Year I performance in Computer Science

THE TUCKER ENERGY SERVICES HOLDINGS LTD.
Awarded for the best Year II performance in Computer Science

THE FUJITSU TRANSACTION SOLUTION LIMITED PRIZE
Awarded for the best Year III performance in Computer Science

INFORMATION TECHNOLOGY

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best Year I performance in Information Technology

THE ROYAL BANK OF TRINIDAD & TOBAGO LTD.
Awarded for the best Year II performance in Information Technology

THE DIGI DATA PRIZE
Awarded for the best Year III performance in Information Technology

DEPARTMENT OF LIFE SCIENCES

PLANT SCIENCE

THE PROFESSOR E.J. DUNCAN PRIZE
Awarded for the best Research Project in Plant Science

BIOCHEMISTRY

THE BRYDEN PI CARIBBEAN PRIZE
Awarded for the best Year II performance by a student majoring in Biochemistry

THE ANGOSTURA LIMITED PRIZE
Awarded for the best Year III performance by a student majoring in Biochemistry

BIOLOGY

THE REPUBLIC BANK LTD. PRIZE
Awarded for the best Year I performance in Biology

THE NEAL AND MASSY PRIZE
Awarded for the best Year II performance in Biology

THE SEETERAM BOOK CENTRE PRIZE
Awarded for the best overall performance in Biology – Book Voucher Prize

ENVIRONMENTAL & NATURAL RESOURCE MANAGEMENT

THE ASA WRIGHT NATURE CENTRE-JULIAN DUNCAN PRIZE
Awarded for the best Year I performance in Environmental & Natural Resource Management

THE ASA WRIGHT NATURE CENTRE - THOMAS CARR PRIZE
Awarded for the best Year II performance in Environmental & Natural Resource Management

THE ASA WRIGHT NATURE CENTRE – IAN LAMBIE PRIZE
Awarded for the best Year III performance in Environmental & Natural Resource Management

31
THE ENVIRONMENTAL MANAGEMENT AUTHORITY (EMA) PRIZE
Awarded for the Best Research Project

SPECIAL PRIZE:
THE JULIAN KENNY PRIZE IN NATURAL HISTORY
Awarded to the final year undergraduate student majoring in a Life Science discipline and displaying a strong interest in Natural History

DEPARTMENT OF MATHEMATICS & STATISTICS
THE POWERGEN PRIZE
Awarded for the best Year I performance in Mathematics

THE GUARDIAN LIFE OF TRINIDAD & TOBAGO PRIZE
Awarded for the best Year II performance in Mathematics

THE TATIL GROUP PRIZE
Awarded for the best Year III performance in Mathematics

THE WINSTON A. RICHARDS PRIZE IN STATISTICS
Awarded for the best Year II and Year III performance in Statistics

DEPARTMENT OF PHYSICS
THE AZAD W. HARRIPAUL PRIZE
Awarded to the student with the highest marks in the level II of the programme for the course PHYS 2290

THE HEAD OF DEPARTMENT PRIZE
Awarded for the best Year I performance in Physics

THE BERGER PAINTS TRINIDAD LTD. PRIZE
Awarded for the best Year II performance in Physics

THE P.C.S. NITROGEN PRIZE
Awarded for the best Year II performance in Material Science

THE UNIT TRUST CORPORATION PRIZE
Awarded for the best Year III performance in Physics

THE ANTHONY CAMPBELL MEMORIAL AWARD
Awarded for the best performance in the final year Research Project

THE TRINIDAD AGGREGATE PRODUCTS PRIZE
Awarded for the best performance in Ceramics

THE CARIRI PRIZE
Awarded for the best Year III performance in Material Science

THE BRUNO MITCHELL PRIZE
Awarded for the best performance in Optics & Astronomy Course

THE DEVA SHARMA PRIZE
Awarded for the best performance in Modern Physics I

THE RUSSELL BARROW MEMORIAL PRIZE IN ASTRONOMY
Awarded to the student showing the most initiative and effort in Astronomy outside the formal classroom

SECTION VII - COURSE OUTLINES

OFFICE OF THE DEAN
Optometry Programme

COURSE LISTING

LEVEL I

SEMMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTM 1011</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>OPTM 1012</td>
<td>General Pathology and Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>OPTM 1062</td>
<td>Introductory Biochemistry *</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>(YEAR LONG)</td>
<td></td>
</tr>
<tr>
<td>OPTM 1031</td>
<td>Introduction to the Optometry Profession</td>
<td>2</td>
</tr>
<tr>
<td>OPTM 1032</td>
<td>Introduction to Clinical Optometry</td>
<td>2</td>
</tr>
<tr>
<td>OPTM 1041</td>
<td>Learning and Key Skills Development</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 1051</td>
<td>Pure Optics</td>
<td>3</td>
</tr>
</tbody>
</table>

SEMMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTM 1021</td>
<td>Anatomy of the Eye and Related Structures</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 1022</td>
<td>Physiology of the Eye and Related Structures</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 1062</td>
<td>Introductory Biochemistry *</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>(YEAR LONG)</td>
<td></td>
</tr>
<tr>
<td>OPTM 1042</td>
<td>Visual Optics</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 1051</td>
<td>Vision I</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 1052</td>
<td>Perception I</td>
<td>3</td>
</tr>
</tbody>
</table>

LEVEL II

SEMMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTM 2021</td>
<td>General Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 2042</td>
<td>Ocular Pathology and Immunology</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 2072</td>
<td>Ophthalmic Lenses and Dispensing</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 2051</td>
<td>Physiology of Vision and Perception II</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 2092</td>
<td>Clinical Methodology and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 2011</td>
<td>Clinical Optometry/Communication Skills *</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>(YEAR LONG)</td>
<td></td>
</tr>
</tbody>
</table>
### SEMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTM 2022</td>
<td>Ocular Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 2061</td>
<td>Assessment of Binocular Vision</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 2082</td>
<td>Contact Lens Practice I</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 2102</td>
<td>Low Vision and Ageing</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 2011</td>
<td>Clinical Optometry/Communication Skills * (YEAR LONG)</td>
<td>6</td>
</tr>
<tr>
<td>OPTM 2031</td>
<td>Visual Ocular Assessment and Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

### LEVEL III

#### SEMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTM 3011</td>
<td>Ocular and Systemic Disease I</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 3061</td>
<td>Lens Practice II</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 3041</td>
<td>Visual Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 3051</td>
<td>Binocular Vision and Orthoptics</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 3021</td>
<td>General Clinical Practice * (YEAR LONG)</td>
<td>6</td>
</tr>
<tr>
<td>OPTM 3031</td>
<td>Advanced Clinical Practice * (YEAR LONG)</td>
<td>6</td>
</tr>
</tbody>
</table>

#### SEMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTM 3012</td>
<td>Ocular and Systemic Disease II</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 3072</td>
<td>Law and Optometric Management</td>
<td>3</td>
</tr>
<tr>
<td>OPTM 3082</td>
<td>Research Project</td>
<td>6</td>
</tr>
</tbody>
</table>

### LEVEL IV OPTOMETRY

12 Continuous Months of Clinical Work

---

### DEPARTMENT OF AGRICULTURAL ECONOMICS AND EXTENSION

#### COURSE LISTING

LIST OF COURSES OFFERED IN THE DEPARTMENT OF AGRICULTURAL ECONOMICS AND EXTENSION FOR THE 2011/2012 ACADEMIC YEAR

#### SEMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 1003</td>
<td>Introduction to Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 1007</td>
<td>Introduction to Textiles</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2000</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2001</td>
<td>Basic Human Anatomy &amp; Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2004</td>
<td>Foodservice Systems Management (Equipment, Layout &amp; Design)</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2008</td>
<td>Social &amp; Psychological Aspects of Apparel</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2012</td>
<td>Nutrition Assessment for Sports</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2014</td>
<td>Nutrition and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2015</td>
<td>Food Quality and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3000</td>
<td>Flat Pattern Development</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3001</td>
<td>Community Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3004</td>
<td>Food Product Development</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3005</td>
<td>Medical Nutrition Therapy I</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3012</td>
<td>Project</td>
<td>4</td>
</tr>
<tr>
<td>HUEC 3014</td>
<td>Nutrition in Sports &amp; Fitness</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3018</td>
<td>Fashion Industry and Business</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3019</td>
<td>Computer-Aided Design for the Fashion Industry</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 5000</td>
<td>Advanced Foodservice Systems Management</td>
<td>4</td>
</tr>
<tr>
<td>HUEC 5030</td>
<td>Food Service Systems Management Practicum</td>
<td>8</td>
</tr>
<tr>
<td>AGBU 1005</td>
<td>Introduction to Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>AGBU 2000</td>
<td>Agriculture in the Economy</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 2002</td>
<td>Management &amp; Economics of Agricultural Production &amp; Marketing</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3001</td>
<td>Marketing &amp; Price Analysis</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3010</td>
<td>Environmental Economics</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3006</td>
<td>Agricultural Project Appraisal &amp; Implementation</td>
<td>4</td>
</tr>
<tr>
<td>AGBU3012</td>
<td>Project</td>
<td>4</td>
</tr>
<tr>
<td>AGEX 1000</td>
<td>Caribbean Agriculture in Perspective: Evolution, Sociology and Contemporary Issues</td>
<td>4</td>
</tr>
<tr>
<td>AGEX 2001</td>
<td>Operation &amp; Management of Extension Programmes</td>
<td>4</td>
</tr>
<tr>
<td>AGEX 3003</td>
<td>Gender Issues in Agriculture</td>
<td>3</td>
</tr>
</tbody>
</table>
AGEX 3004 Communication Skills for Professionals 3
AGEX 3012 Project 4
AGEX 5001 Community Analysis 4
AGEX 5002 Extension Philosophy & Principles 4
AGEX 5003 Communication Theory & Practices 4
AGEX 5005 Field Research Project 4

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 1001</td>
<td>Food Science</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 1004</td>
<td>Introduction to Foods and Meals Mgt.</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 1005</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 1006</td>
<td>Basic Apparel Construction</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2002</td>
<td>Nutrition Through the Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2003</td>
<td>Food Service Systems Management (Organisation, Management &amp; Operation)</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2009</td>
<td>Family Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2111</td>
<td>Physiology in Health and Disease</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2013</td>
<td>Principles of Dietetics</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3002</td>
<td>Foodservice Systems Management (Quantity Foods)</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3006</td>
<td>Medical Nutrition Therapy II</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3007</td>
<td>Law &amp; the Family</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3011</td>
<td>Advanced Textiles</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3010</td>
<td>Housing &amp; the Environment</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3015</td>
<td>Nutrition and Health in Sports Performance</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3016</td>
<td>Nutrition in Health and Disease</td>
<td>4</td>
</tr>
<tr>
<td>HUEC 3017</td>
<td>Computer-Aided Pattern Development</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3020</td>
<td>Development of Caribbean Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3021</td>
<td>Advanced Clinical Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>HUEC 3030</td>
<td>Clinical Nutrition Practicum</td>
<td>8</td>
</tr>
<tr>
<td>AGBU 1002</td>
<td>Introduction to Agro-Environmental Management</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 1006</td>
<td>Macroeconomic Fundamentals for Caribbean Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>AGBU 2003</td>
<td>Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>AGBU 3000</td>
<td>Farm Business Management</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3002</td>
<td>International Marketing of Agricultural Products</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3003</td>
<td>Introduction to Ecotourism: Product Design and Management</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3004</td>
<td>Agricultural Finance &amp; Farm Credit</td>
<td>3</td>
</tr>
<tr>
<td>AGBU 3005</td>
<td>Introduction to Quantitative Methods in Economics</td>
<td>3</td>
</tr>
<tr>
<td>AGBU 3007</td>
<td>New Venture Creation &amp; Management</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3009</td>
<td>International Trade Policy &amp; Regulations</td>
<td>3</td>
</tr>
<tr>
<td>AGEX 3000</td>
<td>Technology Transfer in Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>AGEX 3001</td>
<td>Island Food Systems</td>
<td>3</td>
</tr>
<tr>
<td>AGEX 5004</td>
<td>Current Issues in Agricultural &amp; Rural Development</td>
<td>4</td>
</tr>
<tr>
<td>AGEX 5006</td>
<td>Managing Extension for Agricultural &amp; Rural Development</td>
<td>4</td>
</tr>
<tr>
<td>AGEX 5007</td>
<td>Rural Social System</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 3008</td>
<td>Internship</td>
<td>4</td>
</tr>
<tr>
<td>HUEC 3021</td>
<td>Practicum (Consumer Sciences)</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3022</td>
<td>Practicum (Nutritional Sciences)</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3023</td>
<td>Practicum (Foods &amp; Foodservice)</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 5050</td>
<td>Community Nutrition Practicum</td>
<td>8</td>
</tr>
<tr>
<td>HUEC 5040</td>
<td>Advanced Community Nutrition</td>
<td>4</td>
</tr>
</tbody>
</table>

**BSC OPTIONS, MAJORS, MINORS AND DIPLOMAS OFFERED**

**A. The Agribusiness Programme**
1. The BSc Agribusiness Management
2. Major in Agribusiness
3. Minor in Entrepreneurship

**B. The Human Ecology Programme**

The Human Ecology Programme comprises three (3) Majors, one (1) Minor and two (2) Undergraduate degrees as outlined below:

(i) Majors:
   (a) Family and Consumer Sciences
   (b) Nutritional Sciences
   (c) Foods and Foodservice Systems Management

(ii) Minor: Sports Nutrition

(iii) BSc Human Nutrition and Dietetics

(iv) BSc Human Ecology Degree as follows:

**EITHER**

(a) Double Major comprising Family and Consumer Sciences plus Nutritional Sciences or Foods and Foodservice Systems Management or other approved Majors relevant to the Degree.

**OR**

(b) Major in Family and Consumer Sciences and a Minor in Sports Nutrition and/or other approved Minors relevant to the Degree.

(v) Diploma in Institutional and Community Dietetics and Nutrition

**C. The Extension and Communication Programme**

1. The Minor in Communication and Extension
2. The Diploma in Agricultural Extension
A. The Agribusiness Programme

BSc Agribusiness Management

The BSc Agribusiness Management degree comprises 89 credits of core courses plus 6 credits of electives from the approved list, 3 credits of practical skills, 4 credits of internship and 9 credits of Foundation courses (FOUN 1101, FOUN 1102, FOUN 1301. (Total 111 credits).

COURSE LISTING

SECTION A (CORE COURSES)

<table>
<thead>
<tr>
<th>LEVEL I</th>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ACCT 1002</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGEX 1000</td>
<td>Caribbean Agriculture in Perspective: Evolution, Sociology and Contemporary Issues</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGBU 1005</td>
<td>Introduction to Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGRI 1003</td>
<td>Mathematics for Scientists</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Credits</td>
<td></td>
<td>13</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL I</th>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ACCT 1003</td>
<td>Introduction to Cost &amp; Management Accounting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGBU 1002</td>
<td>Introduction to Agro-Environmental Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGBU 1006</td>
<td>Macroeconomic Fundamentals for Caribbean Agriculture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGRI 1010</td>
<td>Introduction to Crop and Livestock Production</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMP 1011</td>
<td>Introduction to Information Technology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Credits</td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL I</th>
<th>SEMESTER 3</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AGBU 1000</td>
<td>Practical Skills</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL II</th>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ACCT 2017</td>
<td>Management Accounting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGBU 2000</td>
<td>Agriculture in the Economy</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGBU 2002</td>
<td>Management &amp; Economics of Agricultural Production &amp; Marketing</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT 2021</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Credits</td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL II</th>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AGBU 2003</td>
<td>Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT 2023</td>
<td>Management of Information Systems I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT 3006</td>
<td>Organisational Behaviour</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT 2008</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT 2003</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL III</th>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AGBU 3001</td>
<td>Marketing and Price Analysis</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGBU 3006</td>
<td>Agricultural Project Appraisal &amp; Implementation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGBU 3012</td>
<td>Research Project*</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT 3017</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL III</th>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AGBU 3000</td>
<td>Farm Business Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGBU 3002</td>
<td>International Marketing of Agricultural Products</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGBU 3005</td>
<td>Introduction to Quantitative Methods in Economics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGBU 3007</td>
<td>New Venture Creation and Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGBU 3012</td>
<td>Research Project*</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL III</th>
<th>SEMESTER 3</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AGBU 3008</td>
<td>Internship – to be taken in Year II</td>
<td>4</td>
</tr>
</tbody>
</table>

*NOTE: AGBU 3012 will be offered in Semester 1 and 2. Students will be examined at the end of the semester in which they are registered.*
### SECTION B (ELECTIVES)

(At least six (6) credits from the following courses)

<table>
<thead>
<tr>
<th>LEVEL II &amp; III</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AGBU 3003</td>
<td>Introduction to Ecotourism: Product Design &amp; Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>AGBU 3004</td>
<td>Agricultural Finance and Farm Credit</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AGBU 3009</td>
<td>International Trade Policy and Regulations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AGBU 3010</td>
<td>Environmental Economics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>AGCP 3004</td>
<td>Introduction to Floriculture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AGEX 3000</td>
<td>Technology Transfer in Agriculture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AGEX 3004</td>
<td>Communication Skills for Professionals</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AGLS 3000</td>
<td>Poultry Production</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECON 2000</td>
<td>Intermediate Microeconomics I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HUEC 2009</td>
<td>Family Resource Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HUEC 3007</td>
<td>Law and the Family</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MGMT 2007</td>
<td>Introduction to E-commerce</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MGMT 3030</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MGMT 3032</td>
<td>Entrepreneurial Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MGMT 3011</td>
<td>Management Information Systems II Analysis and Design</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTE (A):** Students who intend to pursue an MSc in Agricultural Economics/Agribusiness are advised that the Elective Course, ECON 2000, Intermediate Microeconomics I, would be an asset.

### Major in Agribusiness

The major comprises 32-34 credits of advanced courses (Levels II & III), distributed according to the following areas of specialisation:

- Agribusiness Courses – 20 Credits
- Quantitative Courses – 3 Credits
- Communication Courses – 3 Credits
- Electives – 6 - 8 Credits

Additionally, a total of 23 credits of Level I prerequisites are required as indicated below.

The Major in Agribusiness comprises: All Courses in Section A (Core Courses) and at least six (6) credits from courses listed in Section B (Electives). Students must also ensure that they satisfy prerequisite requirements as listed below.

### COURSE LISTING

#### PREREQUISITES

**LEVEL I**

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AGBU 1005</td>
<td>Introduction to Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AGEX 1000</td>
<td>Caribbean Agriculture in Perspective:</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Evolution, Sociology and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contemporary Issues</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AGRI 1003</td>
<td>Mathematics for Scientists</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td></td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

**LEVEL II/III**

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AGBU 2002</td>
<td>Management &amp; Economics of Agric. Production &amp; Marketing</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>AGBU 3001</td>
<td>Marketing and Price Analysis</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>AGEX 3004</td>
<td>Communication Skills for Professionals</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 11

**LEVEL II/III**

<table>
<thead>
<tr>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AGBU 1006</td>
<td>Macroeconomic Fundamentals for Caribbean Agriculture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AGRI 1010</td>
<td>Introduction to Crop and Livestock Production</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>COMP 1011</td>
<td>Introduction to Information Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 10

### SECTION A (CORE COURSES)

**LEVEL II/III**

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AGBU 2003</td>
<td>Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AGBU 3000</td>
<td>Farm Business Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>AGBU 3002</td>
<td>International Marketing of Agricultural Products</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>AGBU 3007</td>
<td>New Venture Creation and Management</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 15

### SECTION B (ELECTIVES)

(SELECT AT LEAST SIX (6) CREDITS)

**LEVEL II & III**

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AGBU 2000</td>
<td>Agriculture in the Economy</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>AGBU 3006</td>
<td>Agricultural Project Appraisal and Implementation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>AGBU 3012</td>
<td>Project</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MGMT 2023</td>
<td>Financial Management I*</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTE:** AGBU 3012 will be offered in Semesters I and II. Students will be examined at the end of the semester in which they are registered.
### Minor in Entrepreneurship

The Minor in Entrepreneurship comprises a minimum of 15 credits of Advanced Courses (Levels II and III) and 6 credits of prerequisites. Students are required to complete both courses in Section A (Core Courses) and the remaining credits from the list of courses in Section B (Electives).

#### COURSE LISTING

**PREREQUISITES:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 1005</td>
<td>Introduction to Microeconomics</td>
<td></td>
</tr>
<tr>
<td>AGBU 1006</td>
<td>Macroeconomic Fundamentals for Caribbean Agriculture</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION A (CORE COURSES)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 3001</td>
<td>Marketing and Price Analysis</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3007</td>
<td>New Venture Creation and Management</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 8**

**SECTION B (ELECTIVES)**

(At least seven (7) credits from the following)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 3003</td>
<td>Introduction to Ecotourism: Production Design &amp; Management</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3006</td>
<td>Agricultural Project Appraisal and Implementation</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3009</td>
<td>International Trade Policy &amp; Regulations</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3863</td>
<td>Tropical Aquaculture</td>
<td>4</td>
</tr>
<tr>
<td>HUEC 3004</td>
<td>Food Product Development</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3032</td>
<td>Entrepreneurial Studies</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3021</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3027</td>
<td>Introduction to E-Commerce 3</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3010</td>
<td>Housing and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3020</td>
<td>Development of Caribbean Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>AGBU 3012</td>
<td>Project (in Entrepreneurship)</td>
<td>4</td>
</tr>
</tbody>
</table>

*NOTE: Students pursuing the Major in Agribusiness, together with a Minor in Entrepreneurship, are required to select the 15 credits required from Section B since the courses in Section A are common with the Agribusiness Major.*

### B. The Human Ecology Programme

#### Major in Family and Consumer Sciences

The Major in Family and Consumer Sciences comprises 36 credits of advanced courses (Levels II and III) as well as 18 credits of prerequisites courses in Level I. These are outlined below:

#### COURSE LISTING

**PREREQUISITE LEVEL 1 COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 1005</td>
<td>Introduction to Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 1003</td>
<td>Introduction to Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 1007</td>
<td>Introduction to Textiles</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 9**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 1005</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 1006</td>
<td>Basic Apparel Construction</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1004</td>
<td>Introduction to Social Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 9**

**ADVANCED CORE COURSES**

**LEVEL II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 2004</td>
<td>Foodservice Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2008</td>
<td>Psychological Aspects of Apparel</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2012</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 9**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 2009</td>
<td>Family Resource Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**LEVEL III**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3018</td>
<td>Fashion Industry and Business</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 9**
## Level III
### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3007</td>
<td>Law and the Family</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3010</td>
<td>Housing and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3011</td>
<td>Advanced Textiles</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3017</td>
<td>Computer Aided Pattern Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits:** 12

### Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3021</td>
<td>Practicum (Consumer Sciences)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Major in Nutritional Sciences**

The Major in Nutritional Sciences comprises 31 credits of advanced courses (Levels II and III) and 18 credits of prerequisites courses in Level I. These are presented below:

### Course Listing
#### Prerequisite Level 1 Courses

<table>
<thead>
<tr>
<th>Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>AGRI 1012</td>
</tr>
<tr>
<td>CHEM 1062</td>
</tr>
<tr>
<td>HUEC 3003</td>
</tr>
</tbody>
</table>

**Total Credits:** 9

<table>
<thead>
<tr>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>AGRI 1013</td>
</tr>
<tr>
<td>HUEC 3004</td>
</tr>
<tr>
<td>HUEC 3005</td>
</tr>
</tbody>
</table>

**Total Credits:** 9

### Advanced Courses
#### Level II

<table>
<thead>
<tr>
<th>Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>HUEC 2000</td>
</tr>
<tr>
<td>HUEC 2001</td>
</tr>
<tr>
<td>HUEC 2014</td>
</tr>
</tbody>
</table>

**Total Credits:** 9

<table>
<thead>
<tr>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>HUEC 2002</td>
</tr>
<tr>
<td>HUEC 2011</td>
</tr>
</tbody>
</table>

**Total Credits:** 6

<table>
<thead>
<tr>
<th>Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>HUEC 3001</td>
</tr>
<tr>
<td>HUEC 3014</td>
</tr>
</tbody>
</table>

**Total Credits:** 6

## Level III
### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3015</td>
<td>Nutrition and Health in Sports Performance</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3016</td>
<td>Nutrition in Health and Disease</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Credits:** 7

### Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3022</td>
<td>Practicum (Nutritional Sciences)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Major in Foods & Food Service Systems Management**

The Major in Foods and Food Service Systems Management comprises 31 credits of advanced courses (Levels II and III) and 21 credits of prerequisites courses in Level I. These are as follows:

### Course Listing
#### Prerequisite Level 1 Courses

<table>
<thead>
<tr>
<th>Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>ACCT 1002</td>
</tr>
<tr>
<td>AGBU 1005</td>
</tr>
<tr>
<td>AGRI 1012</td>
</tr>
<tr>
<td>CHEM 1062</td>
</tr>
<tr>
<td>HUEC 3003</td>
</tr>
</tbody>
</table>

**Total Credits:** 15

<table>
<thead>
<tr>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>HUEC 1001</td>
</tr>
<tr>
<td>HUEC 1004</td>
</tr>
</tbody>
</table>

**Total Credits:** 6

### Advanced Courses
#### Level II

<table>
<thead>
<tr>
<th>Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>HUEC 2004</td>
</tr>
<tr>
<td>HUEC 2015</td>
</tr>
</tbody>
</table>

**Total Credits:** 6

<table>
<thead>
<tr>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>HUEC 2003</td>
</tr>
<tr>
<td>MGMT 2003</td>
</tr>
</tbody>
</table>

**Total Credits:** 6
LEVEL III
SEMESTER 1
Course Code    Course Title                     Credits
HUEC 3004 Food Product Development  3
MGMT 2008 Organisational Behaviour  3
TOTAL CREDITS 6

LEVEL III
SEMESTER 2
Course Code    Course Title                     Credits
AGBU 3007 New Venture Creation and Management  4
HUEC 3002 Food Service Systems Management (Quantity Foods)  3
HUEC 3020 Development of Caribbean Cuisine  3
TOTAL CREDITS 10

LEVEL III
SEMESTER 3
Course Code    Course Title                     Credits
HUEC 3023 Practicum (Foods & Food Service)  3

Minor in Sports Nutrition
The Minor in Sports Nutrition comprises 16 credits of advanced courses (Levels II and III) and 6 credits of prerequisites/co-requisites. Students are required to complete all courses in Section A (below) and to take at least 3 credits from the list of courses in Section B.

COURSE LISTING
SECTION A: CORE COURSES*
Course Code    Course Title                     Credits
HUEC 2012 Nutrition Assessment for Sports  3
HUEC 3014 Nutrition in Sports and Fitness  3
HUEC 3016 Nutrition in Health and Disease  4
HUEC 3015 Nutrition and Health in Sports Performance  3
TOTAL CREDITS 13

* NOTE: Students pursuing the Major in Nutritional Sciences, together with a Minor in Sports Nutrition, are required to select the replacement courses for HUEC 3014, 3015 AND 3016 FROM Section B, below since these courses are common courses in the Major in Nutritional Sciences. Please consult with the Head of Department before registering for this minor.

SECTION B: ELECTIVES
(AT LEAST 3 CREDITS MUST BE SELECTED FROM THE FOLLOWING COURSES)
Course Code    Course Title                     Credits
AGBU 3007 New Venture Creation and Management  4
AGEX 3004 Communication Skills for Professionals  3
HUEC 3007 Law and the Family  3
MGMT 2007 Introduction to E-Commerce  3
MGMT 2009 Sociology of Sports  3
MGMT 2010 Introduction to Sports Management  3
MGMT 2022 The Law and Sports  3
MGMT 3027 Sports Marketing and Public Relations  3
PSYC 2012 Developmental Psychology  3
SOCI 3005 Sociology of Health and Illness  3
HUEC 3012 Research Project on Sports Nutrition  4
HUEC 2009 Family Resource Management  3
HUEC 2013 Principles of Dietetics  3
HUEC 2015 Food Quality and Safety  3

BSc Human Nutrition and Dietetics – Special Option
The requirements for the BSc Human Nutrition and Dietetics are 94 credits of core courses plus 6 credits of electives from the approved list, as well as 9 credits of Foundation courses (FOUN 1101, FOUN 1102, FOUN 1301. Total credits 109.

COURSE LISTING
CORE COURSES
LEVEL I
SEMESTER 1
Course Code    Course Title                     Credits
ACCT 1002 Introduction to Financial Accounting  3
AGBU 1005 Introduction to Microeconomics  3
AGRI 1003 Mathematics for Scientists  3
AGRI 1012 Microbiology  3
CHEM 1062 Basic Chemistry for Life Sciences  3
HUEC 3003 Introduction to Nutrition  3
TOTAL CREDITS 18

LEVEL I
SEMESTER 2
Course Code    Course Title                     Credits
ACCT 1003 Introduction to Cost & Managerial Accounting  3
AGRI 2013 Introduction to Biochemistry  3
HUEC 1001 Food Science  3
HUEC 1004 Introduction to Foods & Meal Mgt.  3
HUEC 1005 Introduction to Biostatistics  3
PSYC 1004 Introduction to Social Psychology  3
TOTAL CREDITS 18
## LEVEL II

### SEMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEX 3004</td>
<td>Communication Skills for Professionals</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2000</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2001</td>
<td>Basic Human Anatomy &amp; Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2004</td>
<td>Foodservice Systems Mgt. (Equip., Layout &amp; Design)</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2014</td>
<td>Nutrition and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2008</td>
<td>Organisational Behaviour</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

### SEMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 2002</td>
<td>Nutrition Throughout the Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2003</td>
<td>Foodservice Systems Mgt. (Org &amp; Mgt)</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2011</td>
<td>Physiology in Health and Disease</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2013</td>
<td>Principles of Dietetics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2003</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

## LEVEL III

### SEMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3001</td>
<td>Community Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3004</td>
<td>Food Product Development</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3005</td>
<td>Medical Nutrition Therapy I</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3012</td>
<td>Research Project*</td>
<td>4</td>
</tr>
<tr>
<td>HUEC 3014</td>
<td>Nutrition in Sports and Fitness</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

### SEMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3002</td>
<td>Foodservice Systems Management (Quantity Foods)</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3006</td>
<td>Medical Nutrition Therapy II</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3020</td>
<td>Development of Caribbean Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3012</td>
<td>Research Project*</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

*NOTE: HUEC 3012 will be offered in Semester 1 and 2. Students will be examined at the end of the semester in which they are registered.

### ELECTIVES

A minimum of 6 credits is required from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 3001</td>
<td>Marketing &amp; Price Analysis</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3003</td>
<td>Introduction to Eco-Tourism Product Design and Management</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3005</td>
<td>Introduction to Quantitative Methods in Economics</td>
<td>3</td>
</tr>
<tr>
<td>AGBU 3006</td>
<td>Agricultural Project Appraisal and Implementation</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3007</td>
<td>New Venture Creation and Management</td>
<td>4</td>
</tr>
<tr>
<td>HUEC 2012</td>
<td>Nutritional Assessment for Sports</td>
<td>3</td>
</tr>
<tr>
<td>AGCP 3007</td>
<td>Post Harvest Technology</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3007</td>
<td>Law and the Family</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3015</td>
<td>Nutrition and Health in Sports Performance</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2007</td>
<td>Introduction to E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2012</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2011</td>
<td>Selected Theories in Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 3005</td>
<td>Sociology of Health and Illness</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Individuals wishing to practise as a Dietician/Nutritionist must complete a one-year (calendar) Diploma in Institutional and Community Dietetics and Nutrition, following the successful completion of this degree.

### Diploma in Institutional and Community Dietetics and Nutrition

In order to be admitted candidates must have successfully completed a Bachelor's Degree (no more than 5 years prior to application) with major credits in Clinical (Human) Nutrition, Foodservice Systems Management, and Community Nutrition, from a University or College acceptable to The University of the West Indies, St Augustine.

Applicants who do not qualify for entry as specified may be required to pursue supplementary Core and Professional courses at the University, to a minimum of eighteen (18) credits.

Selection from suitably qualified applicants will be based on interviews.

### COURSE LISTING

The Programme comprises the following courses

#### SEMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 5000</td>
<td>Advanced Foodservice Systems Management</td>
<td>4</td>
</tr>
<tr>
<td>HUEC 5010</td>
<td>Foodservice Systems Management Practicum</td>
<td>8</td>
</tr>
</tbody>
</table>

#### SEMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 5020</td>
<td>Advanced Clinical Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>HUEC 5030</td>
<td>Clinical Nutrition Practicum</td>
<td>8</td>
</tr>
</tbody>
</table>
SEMINER 3
Course Code    Course Title                     Credits
HUEC 5040  Advanced Community Nutrition   4
HUEC 5050  Community Nutrition Practicum   8

Note (a):
1. One credit hour is equivalent to one (1) lecture hour or five (5) practicum hours per week for the duration of a semester.
2. For the practicum courses HUEC 5010, HUEC 5030, HUEC 5050, in-course assignments will contribute 100% to the total marks for the course.

Note (b): Enforced Withdrawal and Re-sits
1. Candidates who fail four (4) or more courses will be required to withdraw from the programme.
2. Candidates who fail no more than two (2) courses may be allowed to register for those courses as a final attempt.

Note (c): Requirements for Graduation
1. The Diploma in Institutional and Community Dietetics and Nutrition will be awarded on successful completion of all courses.
2. The Diploma will be awarded with distinction to candidates with a GPA of 3.60 and above.

C. Extension Programme

Minor in Communication and Extension
The Minor in Communication and Extension comprises a minimum of 16 credits of Levels II and III courses selected from the list below. The prerequisites for this minor are AGEX1000, AGBU1005 and AGBU 1006.

COURSE LISTING
CORE COURSES
(A minimum of 16 credits must be selected from the following courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEX 2001</td>
<td>Operation and Management of Extension Programmes</td>
<td>4</td>
</tr>
<tr>
<td>AGEX 3000</td>
<td>Technology Transfer in Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>AGEX 3001</td>
<td>Island Food Systems</td>
<td>3</td>
</tr>
<tr>
<td>AGEX 3003</td>
<td>Gender Issues in Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>AGEX 3004</td>
<td>Communication Skills for Professionals</td>
<td>3</td>
</tr>
<tr>
<td>AGEX 3012</td>
<td>Project</td>
<td>4</td>
</tr>
</tbody>
</table>

Diploma in Agricultural Extension
This programme will be offered subject to a minimum registration of ten (10) students.

The course of study for the Diploma in Agricultural Extension is offered over one (1) academic year of full-time study, and consists of lectures, seminars and practical assignments along with field research which can be conducted in any Caribbean country.

In order to be admitted, candidates must be graduates of an approved University; or hold a technical or professional qualification awarded by an approved Tertiary Level Institution in addition to practical experience or other qualifications of special relevance to the course of studies.

Candidates will be awarded the diploma on successful completion of all the core courses and one of the two elective courses listed below:

COURSE LISTING
CORE COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEX 5001</td>
<td>Community Analysis</td>
<td>4</td>
</tr>
<tr>
<td>AGEX 5002</td>
<td>Extension Philosophy and Principles</td>
<td>4</td>
</tr>
<tr>
<td>AGEX 5003</td>
<td>Communications Theory and Practice</td>
<td>4</td>
</tr>
<tr>
<td>AGEX 5004</td>
<td>Current Issues in Agricultural &amp; Rural Development</td>
<td>4</td>
</tr>
<tr>
<td>AGEX 5005</td>
<td>Field Research Project</td>
<td>8</td>
</tr>
</tbody>
</table>

ELECTIVES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEX 5006</td>
<td>Managing Extension for Agricultural and Rural Development</td>
<td>4</td>
</tr>
<tr>
<td>AGEX 5007</td>
<td>Rural Social Systems</td>
<td>4</td>
</tr>
</tbody>
</table>
EVENING UNIVERSITY
PROGRAMME

BSc Agribusiness Management

**COURSE LISTING AND SEQUENCE**

**YEAR I**

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1002</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>AGEX 1000</td>
<td>Caribbean Agriculture in Perspective: Evolution, Sociology and Contemporary Issues</td>
<td>4</td>
</tr>
</tbody>
</table>

**YEAR I**

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1003</td>
<td>Introduction to Cost &amp; Management Accounting</td>
<td>3</td>
</tr>
<tr>
<td>AGBU 1005</td>
<td>Introduction to Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 1010</td>
<td>Introduction to Crop and Livestock Production</td>
<td>4</td>
</tr>
</tbody>
</table>

**YEAR I**

**SEMESTER 3 (SUMMER)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 1000</td>
<td>Practical Skills</td>
<td>3</td>
</tr>
<tr>
<td>AGBU 1006</td>
<td>Macroeconomic Fundamentals for Caribbean Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>COMP 1011</td>
<td>Introduction to Information Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

**YEAR II**

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 2003</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2006</td>
<td>Management Information Systems I</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2023</td>
<td>Financial Management I</td>
<td>3</td>
</tr>
</tbody>
</table>

**YEAR II**

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 1002</td>
<td>Introduction to Agro-Environmental Management</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 2003</td>
<td>Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 1301</td>
<td>Law, Governance, Economy &amp; Society</td>
<td>3</td>
</tr>
</tbody>
</table>

**YEAR II**

**SEMESTER 3 (SUMMER)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 2000</td>
<td>Agriculture in the Economy</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 2002</td>
<td>Management &amp; Economics of Agricultural Production &amp; Marketing</td>
<td>4</td>
</tr>
<tr>
<td>FOUN 1102</td>
<td>Academic Writing for Different Disciplines</td>
<td>3</td>
</tr>
</tbody>
</table>

**YEAR III**

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 3007</td>
<td>New Venture Creation and Management</td>
<td>4</td>
</tr>
</tbody>
</table>

**YEAR III**

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 3005</td>
<td>Introduction to Quantitative Methods in Economics</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 1101</td>
<td>Caribbean Civilisation</td>
<td>3</td>
</tr>
<tr>
<td>AGBU 3001</td>
<td>Marketing and Price Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

**YEAR III**

**SEMESTER 3 (SUMMER)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 3006</td>
<td>Agricultural Project Appraisal &amp; Implementation</td>
<td>4</td>
</tr>
<tr>
<td>Elective*</td>
<td></td>
<td>3 / 4</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS**

YEAR I: 10
YEAR II: 10
YEAR III: 9
YEAR III (SUMMER): 7/8

* The offering of these Electives will be dependent on the availability of resources. Please consult the Head of Department before registering for Electives. Students MUST have the necessary prerequisites.
### BSc Human Nutrition and Dietetics

The requirements for the BSc Human Nutrition and Dietetics are 94 credits of core courses plus 6 credits of electives from the approved list, as well as 9 credits of Foundation courses (FOUN 1101, FOUN 1102, FOUN 1301). The degree structure and courses are presented hereunder.

**DEGREE STRUCTURE:**

- Professional Courses: 39 credits
- Management Courses: 21 credits
- Science Courses: 30 credits
- Research: 4 credits
- Electives Courses: 6 credits
- Foundation Courses: 9 credits

**TOTAL CREDITS: 109 CREDITS**

### COURSE LISTING AND SEQUENCE

#### YEAR I

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1002</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 1003</td>
<td>Mathematics for Scientists</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1062</td>
<td>Basic Chemistry for Life Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS: 9**

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 1005</td>
<td>Introduction to Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 1003</td>
<td>Introduction to Cost &amp; Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1004</td>
<td>Introduction to Social Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS: 9**

**SEMESTER 3 (SUMMER)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 1004</td>
<td>Introduction to Foods &amp; Meal Management</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 1001</td>
<td>Food Science</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 1005</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS: 9**

#### YEAR II

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 1003</td>
<td>Introduction to Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2003</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2008</td>
<td>Organisational Behaviour</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS: 9**

---

**Note:** Students who intend to pursue an MSc in Agricultural Economics/Agribusiness are advised that Elective Course: Intermediate Microeconomics I would be an asset.
### YEAR II
#### SEMESTER 2
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 1012</td>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 1013</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 1301</td>
<td>Law, Governance, Economy &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

#### SEMESTER 3 (SUMMER)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEX 3004</td>
<td>Communication Skills For Professionals</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2003</td>
<td>Foodservice Systems Management (Organisation Management &amp; Operations)</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2004</td>
<td>Foodservice Systems Management (Equipment, Layout &amp; Design)</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

### YEAR III
#### SEMESTER 1
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 2000</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2014</td>
<td>Nutrition and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2001</td>
<td>Basic Human Anatomy &amp; Physiology</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

#### SEMESTER 2
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 2002</td>
<td>Nutrition Throughout the Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 2011</td>
<td>Physiology in Health and Disease</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 1101</td>
<td>Caribbean Civilisation</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

#### SEMESTER 3 (SUMMER)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 2013</td>
<td>Principles of Dietetics</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 1102</td>
<td>Academic Writing for Different Disciplines (Option C)</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>9/10</strong></td>
</tr>
</tbody>
</table>

### YEAR IV
#### SEMESTER 1
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3001</td>
<td>Community Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3005</td>
<td>Medical Nutrition Therapy I</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3014</td>
<td>Nutrition in Sports and Fitness</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

#### SEMESTER 2
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3004</td>
<td>Food Product Development</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3002</td>
<td>Foodservice Systems Management (Quantity Foods)</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3012</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td>HUEC 3020</td>
<td>Development of Caribbean Cuisine</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

#### SEMESTER 3 (SUMMER)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3006</td>
<td>Medical Nutrition Therapy II</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3/4</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>6/7</strong></td>
</tr>
</tbody>
</table>

**SECTION B (ELECTIVES)**
(A minimum of 6 additional credits are required from the following)

**LEVEL II & III**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 3001</td>
<td>Marketing &amp; Price Analysis</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>AGBU 3005</td>
<td>Introduction to Quantitative Methods in Economics</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>AGBU 3006</td>
<td>Project Appraisal</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>AGBU 3007</td>
<td>New Venture Creation and Management</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>HUEC 3015</td>
<td>Nutrition and Health in Sports Performance</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3007</td>
<td>Law and the Family</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>6</strong></td>
<td></td>
</tr>
</tbody>
</table>

*Note: An individual wishing to practise as a Dietitian/Nutritionist must complete a one-year (calendar) Diploma in Institutional and Community Dietetics and Nutrition, following the successful completion of this degree.*
BSc Human Ecology

The requirements for the BSc Human Ecology Degree are as follows:

DOUBLE MAJOR COMPRISING:

A. A Major in Family and Consumer Sciences plus a Major in Nutritional Sciences

OR

B. A Major in Family and Consumer Sciences plus a Major in Foods and Foodservice Systems Management comprising 97 credits of core courses as well as 9 credits of foundation courses, FOUN 1101, FOUN 1102, FOUN 1301.

A. MAJOR IN FAMILY AND CONSUMER SCIENCES & MAJOR IN NUTRITIONAL SCIENCES

COURSE LISTING AND SEQUENCE

YEAR I

SEMESTER 1

Course Code Course Title Credits
HUEC 1007 Introduction to Textiles 3
CHEM 1062 Basic Chemistry for Life Sciences 3
AGBU 1005 Introduction to Microeconomics 3

TOTAL CREDITS 9

YEAR I

SEMESTER 2

Course Code Course Title Credits
PSYC 1004 Introduction to Social Psychology 3
AGRI 1012 Microbiology 3
HUEC 1006 Basic Apparel Construction 3

TOTAL CREDITS 9

YEAR I

SEMESTER 3 (SUMMER)

Course Code Course Title Credits
HUEC 1004 Introduction to Foods & Meal Management 3
HUEC 1005 Introduction to Biostatistics 3
FOUN 1102 Academic Writing for Different Disciplines 3

TOTAL CREDITS 9

YEAR II

SEMESTER 1

Course Code Course Title Credits
HUEC 1003 Introduction to Nutrition 3
HUEC 3007 Law and the Family 3
HUEC 2014 Psychological Aspects of Apparel 3

TOTAL CREDITS 9

YEAR II

SEMESTER 2

Course Code Course Title Credits
AGRI 1013 Introduction to Biochemistry 3
FOUN1101 Caribbean Civilisation 3
PSYC 2012 Developmental Psychology 3

TOTAL CREDITS 9

YEAR III

SEMESTER 1

Course Code Course Title Credits
HUEC 2000 Biochemistry 3
HUEC 2001 Basic Human Anatomy & Physiology 3
HUEC 2014 Nutrition and Metabolism 3

TOTAL CREDITS 9

YEAR III

SEMESTER 2

Course Code Course Title Credits
HUEC 2011 Physiology in Health and Disease 3
HUEC 2002 Nutrition throughout the Life Cycle 3
HUEC 3000 Flat Pattern Development 3

TOTAL CREDITS 9

YEAR III

SEMESTER 3 (SUMMER)

Course Code Course Title Credits
HUEC 3015 Nutrition and Health in Sports Performance 3
HUEC 3018 Fashion Industry and Business 3
HUEC 3019 Computer-Aided Design for the Fashion Industry 3

TOTAL CREDITS 9

YEAR IV

SEMESTER 1

Course Code Course Title Credits
HUEC 3001 Community Nutrition 3
HUEC 3014 Nutrition in Sports & Fitness 3
HUEC 3017 Computer Aided Pattern Development 3

TOTAL CREDITS 9

YEAR IV

SEMESTER 2

Course Code Course Title Credits
HUEC 3010 Housing and the Environment 3
FOUN 1301 Law, Governance, Economy & Society 3
HUEC 3016 Nutrition in Health and Disease 4

TOTAL CREDITS 10
## YEAR IV

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3021</td>
<td>Practicum (Consumer Science)</td>
<td>3</td>
</tr>
<tr>
<td>HUEC 3022</td>
<td>Practicum (Nutritional Science)</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 6**

### B. MAJOR IN FAMILY AND CONSUMER SCIENCES & MAJOR IN FOODS & FOOD SERVICE SYSTEMS MANAGEMENT

#### COURSE LISTING AND SEQUENCE

**YEAR I**

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACCT 1002</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHEM 1062</td>
<td>Basic Chemistry for Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HUEC 1007</td>
<td>Introduction to Textiles</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 9**

<table>
<thead>
<tr>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 1005</td>
<td>Introduction to Microeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FOUN 1101</td>
<td>Caribbean Civilisation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 1006</td>
<td>Basic Apparel Construction</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 9**

<table>
<thead>
<tr>
<th>SEMESTER 3 (SUMMER)</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 1001</td>
<td>Food Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 1004</td>
<td>Introduction to Foods and Meal Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 2005</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 9**

**YEAR II**

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 2003</td>
<td>Principles of Marketing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 3003</td>
<td>Introduction to Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 2008</td>
<td>Psychological Aspects of Apparel</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 9**

<table>
<thead>
<tr>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 2012</td>
<td>Developmental Psychology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 3010</td>
<td>Housing and the Environment</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 3000</td>
<td>Flat Pattern Development</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 9**

<table>
<thead>
<tr>
<th>SEMESTER 3 (SUMMER)</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3011</td>
<td>Advanced Textiles</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 3018</td>
<td>Fashion Industry and Business</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 3019</td>
<td>Computer-Aided Design for the Fashion Industry</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 9**

**YEAR III**

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 2008</td>
<td>Organisational Behaviour</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 2015</td>
<td>Food Quality and Safety</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 3017</td>
<td>Computer Aided Pattern Development</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 9**

<table>
<thead>
<tr>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3004</td>
<td>Food Product Development</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 3002</td>
<td>Foodservice System Management (Quantity Foods)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 3020</td>
<td>Development of Caribbean Cuisine</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 9**

<table>
<thead>
<tr>
<th>SEMESTER 3 (SUMMER)</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUEC 3021</td>
<td>Practicum (Consumer Science)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUEC 3023</td>
<td>Practicum (Foods and Foodservice)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 6**
DEPARTMENT OF FOOD PRODUCTION

The Department offers programmes in General Agriculture, Agricultural Science, Tropical Landscaping and Geography. The Department also contributes to teaching of the programme in Environmental and Natural Resource Management.

COURSE LISTING
Courses offered in 2011/2012

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGLS 1001</td>
<td>Anatomy and Physiology of Animals</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRI 1003</td>
<td>Mathematics for Scientists</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRI 1012</td>
<td>Microbiology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGSL 1000</td>
<td>Soils and the Environment</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GEOG 1900</td>
<td>Physical Geography</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>AGCP 2000</td>
<td>Bio-systems Engineering Principles</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGCP 2001</td>
<td>Principles of Crop Science and Production</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>AGLS 2002</td>
<td>Animal Nutrition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGLS 2004</td>
<td>Livestock Products Technology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGSL 2000</td>
<td>Soil Fertility and Fertiliser Technology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRI 1003</td>
<td>Mathematics for Scientists</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRI 1010</td>
<td>Introduction to Crop and Livestock Production</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>AGRI 1011</td>
<td>Introduction to General Genetics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRI 1013</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRI 1016</td>
<td>Plant Anatomy and Physiology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEOG 1900</td>
<td>Human Geography</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>AGCP 2003</td>
<td>Mechanisation for Crop Production</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGLS 2005</td>
<td>Parasitology, Animal Health and Disease</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRI 2001</td>
<td>Tropical Crop Protection</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGSL 2001</td>
<td>Soil and Water Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEOG 2007</td>
<td>Urban Geography</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GEOG 2008</td>
<td>Geography of Development</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>AGCP 3005</td>
<td>Landscape and Turf grass Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGCP 3006</td>
<td>Principles of Fruit Crop Production</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>AGCP 3012</td>
<td>Tropical Food Crop</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGLS 3005</td>
<td>Principles of Wildlife Management and Production</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGLS 3004</td>
<td>Non-Ruminant Production Systems Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRI 3000</td>
<td>Climate Change Impact and Management</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>AGRI 3001</td>
<td>Agricultural Biotechnology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRI 3012</td>
<td>Research Project</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>AGRI 3020</td>
<td>Food Microbiology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGSL 3001</td>
<td>Irrigation and Drainage Technology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGSL 3002</td>
<td>Soil Survey and Land Evaluation</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>AGSL 3005</td>
<td>West Indian Soils</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEOG 3001</td>
<td>Caribbean Geography</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GEOG 3007</td>
<td>Geography of Development</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>VART 1406</td>
<td>Colour and Materials</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEMESTER III – SUMMER</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 1000</td>
<td>Practical Skills</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRI 2000</td>
<td>Internship</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

BSc General Agriculture

In the BSc General Agriculture programme the requirement for the award of the degree comprises 104 core credits in Basic and Agricultural Sciences, Crop, Animal and Soil Management, Agribusiness, Extension and Practical Skills. In addition students are required to complete 9 credits of Foundation courses (FOUN 1101, FOUN 1102, FOUN 1301). The degree structure and courses are presented below:

COURSE LISTING

CORE COURSES

<table>
<thead>
<tr>
<th>LEVEL I</th>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AGBU 1005</td>
<td>Introduction to Microeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AGEX 1000</td>
<td>Caribbean Agriculture in Perspective, Sociology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>and Contemporary Issues</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AGSL 1001</td>
<td>Anatomy and Physiology of Animals</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AGRI 2012</td>
<td>Microbiology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AGSL 1000</td>
<td>Soils and the Environment</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TOTAL CREDITS</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*CHEM 1062</td>
<td>Basic Chemistry for Life Sciences</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

*CHEM 1062 Basic Chemistry for Life Sciences 3
*This course is highly recommended for students without CAPE Chemistry or Equivalent and is not part of the credit requirements of the degree option.

**SEMMESTER 2**  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 1006</td>
<td>Macroeconomic Fundamentals for Caribbean Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 1003</td>
<td>Mathematics for Scientists</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 1011</td>
<td>Introduction to General Genetics</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 1013</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 1016</td>
<td>Plant Anatomy and Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 15

**SEMMESTER 3 (SUMMER)**  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 1000</td>
<td>Practical Skills</td>
<td>3</td>
</tr>
</tbody>
</table>

**LEVEL II**  

**SEMMESTER 1**  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 2002</td>
<td>Management &amp; Economics of Agricultural Production &amp; Marketing</td>
<td>4</td>
</tr>
<tr>
<td>AGCP 2000</td>
<td>Biosystems Engineering Principles</td>
<td>3</td>
</tr>
<tr>
<td>AGCP 2001</td>
<td>Principles of Crop Science and Production</td>
<td>4</td>
</tr>
<tr>
<td>AGLS 2002</td>
<td>Animal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>AGSL 2000</td>
<td>Soil Fertility and Fertiliser Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 17

**SEMMESTER 2**  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEX 3000</td>
<td>Technology Transfer in Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>AGLS 2005</td>
<td>Parasitology, Animal Health and Diseases</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 2001</td>
<td>Tropical Crop Protection</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 3000</td>
<td>Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>AGSL 2001</td>
<td>Soil and Water Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 16

**SEMMESTER 3 (SUMMER)**  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 2000</td>
<td>Internship</td>
<td>4</td>
</tr>
</tbody>
</table>

**LEVEL III**  

**SEMMESTER 1**  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGCP 3011</td>
<td>Major Caribbean Export Crops</td>
<td>3</td>
</tr>
<tr>
<td>AGCP 3007</td>
<td>Post-harvest Technology</td>
<td>3</td>
</tr>
<tr>
<td>AGLS 3003</td>
<td>Ruminant Production Systems</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 3006</td>
<td>Principles of Animal and Plant \ Breeding</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 3013</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 16

---

**Major in Agricultural Science**  
Students admitted into the Major in Agricultural Science are required to do the following prescribed Level I courses and 32 credits of Levels II and III courses.

**COURSE LISTING**  

**LEVEL I**  

**SEMMESTER 1**  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 1102</td>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>AGLS 1101</td>
<td>Anatomy and Physiology of Animals</td>
<td>3</td>
</tr>
<tr>
<td>AGSL 1100</td>
<td>Soils and the Environment</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 10

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1062</td>
<td>Basic Chemistry for Life Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

This course is highly recommended for students without CAPE Chemistry or Equivalent BUT is not part of the Major in Agricultural Science.

**LEVEL I**  

**SEMMESTER 2**  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 3105</td>
<td>Plant Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 3133</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 3111</td>
<td>Introduction to Genetics</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 9

**SEMMESTER 3 (SUMMER)**  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 3100</td>
<td>Practical Skills</td>
<td>3</td>
</tr>
</tbody>
</table>

**LEVEL II/III**  

**SEMMESTER 1**  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGCP 2001</td>
<td>Principles of Crop Science and Production</td>
<td>4</td>
</tr>
<tr>
<td>AGCP 3007</td>
<td>Postharvest Technology</td>
<td>3</td>
</tr>
<tr>
<td>AGLS 2002</td>
<td>Animal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>AGSL 3000</td>
<td>Soil Fertility and Fertiliser Technology</td>
<td>3</td>
</tr>
<tr>
<td>AGLS 3003*</td>
<td>Ruminant Production Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

---

*This course is highly recommended for students without CAPE Chemistry or Equivalent and is not part of the credit requirements of the degree option.
LEVEL II/III SEMESTER 2
Course Code    Course Title                      Credits
AGLS 2005    Parasitology, Animal Health and Diseases    3
AGRI 2001    Tropical Crop Protection    3
AGRI 3012    Agricultural Biotechnology    3
AGRI 3000    Statistical Methods    4
AGSL 2001    Soil and Water Management    3
AGLS 3004*    Non Ruminant Production Systems    3

* STUDENTS ARE REQUIRED TO SELECT ONE OF THESE COURSES (AGLS 3003 OR AGLS 3004)

ELECTIVES
The following are general electives offered by the Department of Food Production. These courses are offered subject to a minimum enrolment and the necessary prerequisites.

SEMIESTER 1
Course Code    Course Title                      Credits
AGLS 3008    Applied Animal Physiology    3
AGSL 3004    Integrated Watershed Management    4
AGSL 3010    Geophysical and Environmental Soil Sensing    4
AGLS 2004    Livestock Products Technology    3
AGCP 3001    Vegetable Production    4
AGCP 3002    Crop Production Systems    4
AGCP 3004    Introduction to Floriculture    3
AGLS 3000    Poultry Production    3

SEMIESTER 2
Course Code    Course Title                      Credits
AGCP 3006    Principles of Fruit Crop Production    4
AGLS 3005    Principles of Wildlife Production & Management    3
AGRI 3001    Climate Change Impact and Management    4
AGSL 3002    Soil Survey & Land Evaluation    4
AGCP 2003    Mechanisation for Crop Production    3
AGCP 3005    Landscape and Turfgrass Management    3
AGRI 3007    Current Issues in Agriculture    3
AGSL 3005    West Indian Soils    3
AGRI 3020    Food Microbiology    3

Major in Geography
A major in Geography would require successful completion of 12 credits of LEVEL 1 PREREQUISITES and a total of 32 credits at the advanced level consisting of 24 credits of core courses and any 8 credits of elective courses. Elective courses are subject to necessary prerequisite and can be taken from Level II/III.

COURSE LISTING
The structure of the programme is follows:

LEVEL I PREREQUISITES COURSES
SEMIESTER 1
Course Code    Course Title                      Credits
GEOG 1900    Physical Geography    6

SEMIESTER 2
Course Code    Course Title                      Credits
GEOG 1901    Human Geography    6

CORE COURSES
LEVEL II SEMESTER 1
Course Code    Course Title                      Credits
GEOG 2002    Earth Surface Processes    4
GEOG 2000    Geographic Information Systems    4

SEMIESTER 2
Course Code    Course Title                      Credits
GEOG 2007    Urban Geography    4

LEVEL III SEMESTER 1
Course Code    Course Title                      Credits
GEOG 3005    Quantitative Geography    4
GEOG 3007    Natural Hazards    4

SEMIESTER 2
Course Code    Course Title                      Credits
GEOG 3001    Caribbean Geography    4

AND any eight (8) credits of ELECTIVES from the following:
SEMIESTER 1
Course Code    Course Title                      Credits
GEOG 2006    Agricultural Geography    4
GEOG 3000    Research Project    4
GEOG 3003*    Meteorology and Climatology    4
AGSL 3010    Geophysical and Environmental Soil Sensing    4

SEMIESTER 2
Course Code    Course Title                      Credits
GEOG 2008    Geography of Development    4
GEOG 3006    Global Environmental Change    4
GEOG 2001*    Biogeography    4
GEOG 3000    Research Project    4

*NOT OFFERED IN 2011/12
Major in Tropical Landscaping
A major in Tropical Landscaping would require successful completion of 16 credits of LEVEL 1 PREREQUISITES and a total of 32 credits at the advanced level.

**COURSE LISTING**

**LEVEL I**
**PREREQUISITES COURSES**

**SEMESTER 1**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSL 3000</td>
<td>Soils and the Environment</td>
<td>4</td>
</tr>
<tr>
<td>VART 1404</td>
<td>ICT and Design Foundations</td>
<td>3</td>
</tr>
</tbody>
</table>

**SEMESTER 2**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 1016</td>
<td>Plant Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>VART 1406</td>
<td>Colour and Materials</td>
<td>3</td>
</tr>
</tbody>
</table>

**SEMESTER 3 (SUMMER)**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 1000</td>
<td>Practical Skills</td>
<td>3</td>
</tr>
</tbody>
</table>

**CORE COURSES**

**LEVEL II**

**SEMESTER 1**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VART 2401</td>
<td>Landscape Design I</td>
<td>3</td>
</tr>
<tr>
<td>HORT 2001</td>
<td>People Plant Relations</td>
<td>3</td>
</tr>
<tr>
<td>HORT 2002</td>
<td>Tropical Landscape Plant Identify</td>
<td>3</td>
</tr>
</tbody>
</table>

**SEMESTER 2**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VART 2402</td>
<td>Landscape Design 2</td>
<td>3</td>
</tr>
</tbody>
</table>

**SEMESTER 3**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDSP 2000</td>
<td>Landscaping Internship</td>
<td>4</td>
</tr>
</tbody>
</table>

**LEVEL III**

**SEMESTER 1**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 3001</td>
<td>Amenity and Sports</td>
<td>3</td>
</tr>
<tr>
<td>LDSP 3001</td>
<td>Landscaping Project</td>
<td>4</td>
</tr>
<tr>
<td>LDSP 3002</td>
<td>Hardscape Construction &amp; Maintenance</td>
<td>3</td>
</tr>
</tbody>
</table>

**SEMESTER 2**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 3002</td>
<td>Landscape Horticulture</td>
<td>3</td>
</tr>
</tbody>
</table>

Any 3 credits of ELECTIVES from the following (N.B. Students must have the necessary prerequisites):

**SEMESTER 1**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSL 3000</td>
<td>Soil Fertility &amp; Fertilizer Technology</td>
<td>3</td>
</tr>
<tr>
<td>AGCP 3004</td>
<td>Introduction to Floriculture</td>
<td>3</td>
</tr>
</tbody>
</table>

**SEMESTER 2**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 2001</td>
<td>Tropical Crop Protection</td>
<td>3</td>
</tr>
<tr>
<td>AGSL 2001</td>
<td>Soil and Water Management</td>
<td>3</td>
</tr>
<tr>
<td>AGBU 3007</td>
<td>New Venture Creation</td>
<td>3</td>
</tr>
</tbody>
</table>

**DEPARTMENT OF CHEMISTRY**

**COURSE LISTING**

List of Courses Offered in the Department of Chemistry for the 2011/2012 academic year.

**SEMESTER 1**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 0060</td>
<td>Preliminary Chemistry I</td>
<td>0</td>
</tr>
<tr>
<td>CHEM 1060</td>
<td>Introductory Chemistry I</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 1062</td>
<td>Basic Chemistry for Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 2160</td>
<td>Main Group Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2360</td>
<td>Basic Physical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2025</td>
<td>Kinetics &amp; Mechanism</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3267</td>
<td>Basic Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3268</td>
<td>Chemistry of Natural Products</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3467</td>
<td>Basic Analytical Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 3560</td>
<td>Environmental Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3561</td>
<td>Introduction to Polymer Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3660</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 2**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 0061</td>
<td>Preliminary Chemistry II</td>
<td>0</td>
</tr>
<tr>
<td>CHEM 1062</td>
<td>Introductory Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 2025</td>
<td>Spectroscopy</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2260</td>
<td>Basic Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2460</td>
<td>Principles of Chemical Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3167</td>
<td>Advanced Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3168</td>
<td>Advanced Topics in Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3269</td>
<td>Organic Synthesis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3367</td>
<td>Thermodynamics &amp; Statistical Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3468</td>
<td>Advanced Analytical Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 3562</td>
<td>Corrosion Science</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3569</td>
<td>Industrial Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3660</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

Please note:
I. Preliminary Chemistry I (CHEM 0060) and II (CHEM 0061) are taught by The Open Campus (formerly the School of Continuing Studies). These courses are not counted towards a student’s credit requirements for the BSc degree. However these courses can be used as PREREQUISITEs for other courses/programmes.

II. a. Basic Chemistry for Life Sciences (CHEM 1062) is offered for students who have little exposure in Chemistry and intend to pursue studies in Agriculture, Human Ecology and the Life Sciences.

b. However CHEM 1062 cannot be done in conjunction with CHEM 1060 and/or CHEM 1061 or CHEM 0060 and CHEM 0061.
III. Students who have already passed Chemistry at, CAPE (Units 1 and 2), GCE A Level or Preliminary Chemistry (CHEM 0060 and CHEM 0061) or equivalent at UWI will be exempted from CHEM 1062 (Basic Chemistry for Life Sciences).

IV. For all Preliminary, Level I and Level II Chemistry courses (unless otherwise stated) Practical work will be assessed throughout the semester and will contribute to the candidate’s final mark.

N.B. Students will be debarred from writing the final examination if they have not attended, completed and handed in lab reports for at least 80% of the laboratory experiments.

V. Chemistry majors will be required to pursue a Final Year Research Project course (96 hours) - in either Semester 1 or 2.

VI. The courses CHEM3560 (Environmental Chemistry) and CHEM3569 (Industrial Chemistry) have restricted enrollment. Entry into these courses is highly competitive and selection will be based on students’ academic records. Students interested in pursuing these courses are required to complete an application form, available from the Chemistry General Office, the semester before the course is due to run.

---

**Major in Chemistry**

(33 CREDITS)

**COURSE LISTING**

**PREREQUISITE LEVEL I COURSES**

**LEVEL I**

**SEMESTER 1**

Course Code | Course Title | Credits
--- | --- | ---
CHEM 1060 | Introductory Chemistry I | 6

**LEVEL I**

**SEMESTER 2**

Course Code | Course Title | Credits
--- | --- | ---
CHEM 1061 | Introductory Chemistry II | 6

**CORE COURSES**

**LEVEL II**

**SEMESTER 1**

Course Code | Course Title | Credits
--- | --- | ---
CHEM 2025 | Kinetics & Mechanism | 4
CHEM 2160 | Main Group Chemistry | 4
CHEM 2360 | Basic Physical Chemistry | 4

**LEVEL II**

**SEMESTER 2**

Course Code | Course Title | Credits
--- | --- | ---
CHEM 2015 | Spectroscopy | 4
CHEM 2260 | Basic Organic Chemistry I | 4

**LEVEL III**

**SEMESTER 1 OR 2**

Course Code | Course Title | Credits
--- | --- | ---
CHEM 3660 | Research Project | 4

**PLUS**

(i) Either nine (9) credits of Level III courses from List 1

**LIST 1**

**SEMESTER 1**

Course Code | Course Title | Credits
--- | --- | ---
CHEM 3267 | Basic Organic Chemistry II | 3

**SEMESTER 2**

Course Code | Course Title | Credits
--- | --- | ---
CHEM 3167 | Advanced Inorganic Chemistry | 3
CHEM 3367 | Thermodynamics & Statistical Thermodynamics | 3

(ii) OR alternatively any six (6) credits from List 1 above AND at least three (3) credits from List 2 below

**LIST 2**

**ELECTIVES**

The following electives are also offered by the Department

**SEMESTER 1**

Course Code | Course Title | Credits
--- | --- | ---
CHEM 3268 | Chemistry of Natural Products | 3
CHEM 3467 | Basic Analytical Chemistry | 6
CHEM 3560 | Environmental Chemistry | 4
CHEM 3561 | Introduction to Polymer Chemistry | 4

**SEMESTER 2**

Course Code | Course Title | Credits
--- | --- | ---
CHEM 3168 | Advanced Topics in Inorganic Chemistry | 3
CHEM 3269 | Organic Synthesis | 3
CHEM 3468 | Advanced Analytical Chemistry | 6
CHEM 3562 | Corrosion Science | 4
CHEM 3569 | Industrial Chemistry I | 4

**Minor in Chemistry**

(16 CREDITS)

**COURSE LISTING**

**CORE COURSES (12 CREDITS)**

**LEVEL II**

**SEMESTER 1**

Course Code | Course Title | Credits
--- | --- | ---
CHEM 2160 | Main Group Chemistry | 4
CHEM 2360 | Basic Physical Chemistry | 4

**LEVEL II**

**SEMESTER 2**

Course Code | Course Title | Credits
--- | --- | ---
CHEM 2260 | Basic Organic Chemistry I | 4
ELECTIVES (4 CREDITS)
One course from the following:

LEVEL II
SEMESTER 1
Course Code    Course Title                     Credits
CHEM 2025   Kinetics & Mechanism  4

LEVEL II
SEMESTER 2
Course Code    Course Title                     Credits
CHEM 2015   Spectroscopy  4

Minor in Analytical Chemistry
(16 CREDITS)
Chemistry Majors can also pursue a minor in Analytical Chemistry by taking the following additional courses. For these students, only one Research Project CHEM 3660 will be required (see MAJOR IN CHEMISTRY). PLEASE NOTE THAT A MINOR IN ANALYTICAL CHEMISTRY CAN ONLY BE PURSUED IN CONJUNCTION WITH THE MAJOR IN CHEMISTRY.

COURSE LISTING
LEVEL II
SEMESTER 2
Course Code    Course Title                     Credits
CHEM 2460   Principles of Chemical Analysis 4

LEVEL III
SEMESTER 1
Course Code    Course Title                     Credits
CHEM 3467  Basic Analytical Chemistry 6

COURSE LISTING
LEVEL III
SEMESTER 2
Course Code    Course Title                     Credits
CHEM 3468  Advanced Analytical Chemistry 6

Minor in Applied Chemistry
(16 CREDITS)
Chemistry majors can also pursue a minor in Applied Chemistry by pursuing the following additional courses.

COURSE LISTING
LEVEL III
SEMESTER 1
Course Code    Course Title                     Credits
CHEM 3560   Environmental Chemistry 4
CHEM 3561 Introduction to Polymer Chemistry 4

COURSE LISTING
LEVEL III
SEMESTER 2
Course Code    Course Title                     Credits
CHEM 3562  Corrosion Science 4
CHEM 3569 Industrial Chemistry I 4

BSc Chemistry and Management
The course requirements for the BSc Chemistry and Management are as follows:
(PLEASE SEE APPENDIX 2 which outlines the specific prerequisites for the Management courses pursued by Chemistry and Management students.)

COURSE LISTING
(a) LEVEL I
SEMESTER 1
Course Code    Course Title                     Credits
ACCT 1002 Introduction to Financial Accounting 3
SOCI 1002 Introduction to Sociology I 3
ECON 1001 Introduction to Economics I 3
ECON 1005 Introduction to Statistics 3
CHEM 1060 Introductory Chemistry I 6

SEMESTER 2
Course Code    Course Title                     Credits
ACCT 1003 Introduction to Cost and Management Accounting 3
CHEM 1061 Introductory Chemistry II 6
COMP 1011 Introduction to Information Technology 3

TOTAL LEVEL I CREDITS 30

(b) LEVEL II
SEMESTER 1
Course Code    Course Title                     Credits
CHEM 2160 Main Group Chemistry 4
CHEM 2360 Physical Chemistry 4
CHEM 2025 Kinetics & Mechanism 4
MGMT 2012 Quantitative Methods 3
MGMT 2021 Business Law 3
MGMT 2023 Financial Management 3

SEMESTER 2
Course Code    Course Title                     Credits
CHEM 2260 Organic Chemistry 4
CHEM 2015 Spectroscopy 4
MGMT 2003 Principles of Marketing 3
MGMT 2008 Organisational Behaviour 3
MGMT 2032 Managerial Economics 3

(c) LEVEL III - MANAGEMENT COURSES
SEMESTER 1
Course Code    Course Title                     Credits
MGMT 3057 Production and Operations 3

SEMESTER 2
Course Code    Course Title                     Credits
MGMT 3060 Operations Planning and Control 3
(d) LEVEL III - CHEMISTRY COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3660</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

PLUS

(i) EITHER nine (9) credits of Level III courses from List 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3267</td>
<td>Basic Organic Chemistry II</td>
<td>3</td>
</tr>
</tbody>
</table>

SEMMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3167</td>
<td>Advanced Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3367</td>
<td>Thermodynamics &amp; Statistical</td>
<td>3</td>
</tr>
</tbody>
</table>

(ii) OR alternatively any six (6) credits from List 1 above AND at least three (3) credits from List 2 (Electives) - see previous page.

(e) IN ADDITION

Six (6) credits of Level II/III Management courses selected from the following:

MANAGEMENT ELECTIVES:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3000</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3017</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2006</td>
<td>Management Information Systems I</td>
<td>3</td>
</tr>
</tbody>
</table>

SEMMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3007</td>
<td>Marketing Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

Students may also select six (6) credits of Management courses from any level II/III management courses offered in the Summer.

(f) NINE (9) CREDITS OF FOUNDATION COURSES:

SEMMESTER 1 AND 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 1101</td>
<td>Caribbean Civilisation</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 1301</td>
<td>Law, Governance, Economy and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

SEMMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 1102</td>
<td>Academic Writing for Different Disciplines (Option C)</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL DEGREE CREDITS REQUIREMENTS: 102

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

Please note:

i. Students majoring in Computer Science and those registered in the BSc Computer Science and Management or BSc Information Technology and BSc Computer Science must seek the approval of the Department to read Computing, Information Technology/Systems courses outside of the FSA.

COURSE EQUIVALENCIES: There is substantial overlap in the following courses and CREDITS WOULD NOT BE GIVEN TO STUDENTS PURSUING THE EQUIVALENT COURSES:

<table>
<thead>
<tr>
<th>COMPUTER SCIENCE COURSE CODES &amp; TITLES</th>
<th>INFORMATION TECHNOLOGY COURSE CODES &amp; TITLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>MATH 1140</td>
<td>Basic Introductory Mathematics</td>
</tr>
<tr>
<td>COMP 1100</td>
<td>Computer Programming I</td>
</tr>
<tr>
<td>COMP 2200</td>
<td>Data Structures</td>
</tr>
<tr>
<td>COMP 2000</td>
<td>Discrete Mathematics for Computer Science</td>
</tr>
<tr>
<td>COMP 2100</td>
<td>Computer Architecture</td>
</tr>
<tr>
<td>COMP 2200</td>
<td>Computer Architecture</td>
</tr>
<tr>
<td>COMP 2300</td>
<td>Programming for Business</td>
</tr>
<tr>
<td>COMP 3750</td>
<td>Numerical Computing</td>
</tr>
<tr>
<td>COMP 3990</td>
<td>Project</td>
</tr>
<tr>
<td>FOUN 1101</td>
<td>Caribbean Civilisation</td>
</tr>
<tr>
<td>FOUN 1301</td>
<td>Law, Governance, Economy and Society</td>
</tr>
</tbody>
</table>

53

Return to Table of Contents
Faculty of Science & Agriculture Online
ii. **REGULATION REGARDING FAIL THEORY IN FINAL EXAMINATIONS FOR ALL COMPUTER SCIENCE AND INFORMATION TECHNOLOGY COURSES:**

Students must make a minimum of 40% in the final examination to obtain a PASS Grade. Students who have an overall mark of 40% or more but less than 40% in the Final Examination will be deemed to have failed the examination.

iii. **INTERNSHIP PROGRAMME FOR UNDERGRADUATE STUDENTS IN COMPUTER SCIENCE/INFORMATION TECHNOLOGY**

The Department offers an optional internship programme for second year students majoring in Computer Science or pursuing the BSc Computer Science and Management /BSc Information Technology and BSc Computer Science degrees. This programme will be helpful in:

- Providing practical training to the students during their degree programme;
- Providing experience in the working environment, and
- Preparing for future jobs.

iv **TRANSFER OF COURSEWORK MARKS**

The Department does NOT carry forward coursework marks for their courses (COMP or INFO).

---

**COURSE LISTING**

List of Courses Offered in the Department of Computing & Information Technology for the 2011/2012 academic year.

**KEY:** # Students Majoring in Computer Science or Information Technology will not be credited for COMP 1011.

* INFO courses also offered to students in the Evening University (EU) Programme.

---

### SEMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 1011</td>
<td>Introduction to Information Technology #</td>
<td>3</td>
</tr>
<tr>
<td>COMP 1100</td>
<td>Computer Programming I</td>
<td>6</td>
</tr>
<tr>
<td>COMP 1200</td>
<td>Computer Programming II</td>
<td>6</td>
</tr>
<tr>
<td>COMP 1300</td>
<td>Mathematics for Computer Science I</td>
<td>6</td>
</tr>
<tr>
<td>COMP 2000</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2200</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2500</td>
<td>Object-Oriented Programming</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3700</td>
<td>Database Management Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 1011</td>
<td>Introduction to Information Technology #</td>
<td>3</td>
</tr>
<tr>
<td>COMP 1100</td>
<td>Computer Programming I</td>
<td>6</td>
</tr>
<tr>
<td>COMP 1200</td>
<td>Computer Programming II</td>
<td>6</td>
</tr>
<tr>
<td>COMP 1350</td>
<td>Mathematics for Computer Science II</td>
<td>6</td>
</tr>
<tr>
<td>COMP 2000</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2100</td>
<td>Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2300</td>
<td>Programming for Business Applications</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2500</td>
<td>Object-Oriented Programming</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3000</td>
<td>Design and Analysis of Algorithms</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3220</td>
<td>Human Computer Interaction</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3250</td>
<td>Software Engineering</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3275</td>
<td>Wireless and Mobile Computing</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3550</td>
<td>Internet Technologies</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3700</td>
<td>Database Management Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 3 (EVENING UNIVERSITY PROGRAMME)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 1410</td>
<td>Information Processing Systems</td>
<td>6</td>
</tr>
<tr>
<td>INFO 1425</td>
<td>Introduction to Computer Science</td>
<td>6</td>
</tr>
<tr>
<td>INFO 2405</td>
<td>Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>INFO 2410</td>
<td>Fundamental Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>INFO 3410</td>
<td>Web Systems &amp; Technologies</td>
<td>4</td>
</tr>
<tr>
<td>INFO 3420</td>
<td>Programming Languages</td>
<td>4</td>
</tr>
<tr>
<td>INFO 3490</td>
<td>Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**COURSES NOT OFFERED IN ACADEMIC YEAR 2011/2012**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 2400</td>
<td>Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2600</td>
<td>Theory of Computing</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3300</td>
<td>Programming Languages</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3400</td>
<td>Artificial Intelligence</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3600</td>
<td>Theory of Computing</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3750</td>
<td>Numerical Computing</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3800</td>
<td>Cryptography and Security</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3850</td>
<td>Intelligent Systems</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3950</td>
<td>Modelling and Simulation</td>
<td>4</td>
</tr>
</tbody>
</table>
Major in Computer Science  
(32 ADVANCED CREDITS)

**COURSE LISTING**  
**PREREQUISITE COURSES**  
**LEVEL I SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 1100</td>
<td>Computer Programming I</td>
<td>6</td>
</tr>
<tr>
<td>COMP 1200</td>
<td>Computer Programming II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 1140</td>
<td>Basic Introductory Mathematics</td>
<td>6</td>
</tr>
</tbody>
</table>

**LEVEL I SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 1100</td>
<td>Computer Programming I</td>
<td>6</td>
</tr>
<tr>
<td>COMP 1200</td>
<td>Computer Programming II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 1150</td>
<td>Functions of Real Variables</td>
<td>6</td>
</tr>
</tbody>
</table>

**CORE COURSES (24 credits):**

**LEVELS II/III SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 2000</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2200</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2500</td>
<td>Object-Oriented Programming</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3200</td>
<td>Operating Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

**LEVELS II/III SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 2000</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2100</td>
<td>Discrete Mathematics for Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2200</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3000</td>
<td>Design and Analysis of Algorithms</td>
<td>4</td>
</tr>
</tbody>
</table>

**ELECTIVES (any 8 credits must be selected from the following Computer Science courses):**

**LEVELS II/III SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 2700</td>
<td>Database Management Systems I</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3150</td>
<td>Computer Networks</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3500</td>
<td>Internet Technologies I</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3900</td>
<td>Special Topics in Computer Science (Game Programming)</td>
<td>4</td>
</tr>
</tbody>
</table>

**LEVELS II/III SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 2300</td>
<td>Programming for Business Applications</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3220</td>
<td>Human Computer Interaction</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3250</td>
<td>Software Engineering</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3275</td>
<td>Wireless and Mobile Computing</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3550</td>
<td>Internet Technologies II</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3700</td>
<td>Database Management Systems II</td>
<td>4</td>
</tr>
</tbody>
</table>

The following **ELECTIVES** for the major in Computer Science **WILL NOT BE OFFERED** in the academic year 2011/2012.

**Course Code**  
**Course Title**  
**Credits**

| COMP 2400 | Information Systems                      | 4       |
| COMP 2600 | Theory of Computing                      | 4       |
| COMP 3300 | Programming Languages I                  | 4       |
| COMP 3400 | Artificial Intelligence                   | 4       |
| COMP 3600 | Theory of Computing II                   | 4       |
| COMP 3750 | Numerical Computing                       | 4       |
| COMP 3800 | Cryptography and Security                 | 4       |
| COMP 3860 | Intelligent Systems                       | 4       |
| COMP 3950 | Modelling and Simulation                  | 4       |
| COMP 3990 | Project                                  | 4       |

**Minor in Computer Science**  
(16 CREDITS)

**COURSE LISTING**  
**CORE COURSES: (8 CREDITS)**

**LEVEL II**

**LEVELS II/III SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 2000</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2500</td>
<td>Object-Oriented Programming</td>
<td>4</td>
</tr>
</tbody>
</table>

**LEVELS II/III SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 2200</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3000</td>
<td>Design and Analysis of Algorithms</td>
<td>4</td>
</tr>
</tbody>
</table>

**LEVELS II/III COURSES (8 CREDITS)**

Any 8 credits from the following:

**LEVELS II/III SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 2200</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2700</td>
<td>Database Management Systems I</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3100</td>
<td>Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3150</td>
<td>Computer Networks</td>
<td>4</td>
</tr>
</tbody>
</table>

**LEVELS II/III SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 2200</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3000</td>
<td>Design and Analysis of Algorithms</td>
<td>4</td>
</tr>
<tr>
<td>COMP 3250</td>
<td>Software Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>
### BSc Information Technology

(105 CREDITS)

N.B. AT LEVEL I, STUDENTS ARE REQUIRED TO COMPLETE 24 CREDITS FROM LEVEL I IT COURSES AS SPECIFIED BELOW AND 12 CREDITS TAKEN FROM ANY DISCIPLINE IN THE FSA. THIS DEGREE IS ALSO OFFERED UNDER THE EVENING UNIVERSITY (EU) PROGRAMME.

#### COURSE LISTING

**LEVEL I (36 CREDITS)**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INFO 1400</td>
<td>Information Technology Fundamentals</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>INFO 1405</td>
<td>Programming for the WWW</td>
<td>6</td>
</tr>
</tbody>
</table>

**LEVEL II/III (60 CREDITS)**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INFO 2415</td>
<td>Mathematics for Critical Thinking</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>INFO 2420</td>
<td>Programming Fundamentals I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>INFO 2425</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>INFO 2430</td>
<td>Business Information Systems</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>INFO 3400</td>
<td>Fundamentals of Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>INFO 3405</td>
<td>Networking Technologies</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>INFO 3415</td>
<td>Information Assurance and Security</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>INFO 3440</td>
<td>Software Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES**

Any six (6) credits of Faculty courses

#### FOUNDATION COURSES (9 CREDITS)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FOUN 1101</td>
<td>Caribbean Civilization</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FOUN 1301</td>
<td>Law, Governance, Economy and Society</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>FOUN 1102</td>
<td>Academic Writing for Different Disciplines (Option C)</td>
<td>3</td>
</tr>
</tbody>
</table>

---

### BSc Computer Science

(109 CREDITS)

N.B. At LEVELS II/III, STUDENTS ARE REQUIRED TO COMPLETE 52 CREDITS OF CORE COMPUTER SCIENCE COURSES, 8 CREDITS FROM THE LIST OF ELECTIVE COURSES AND 4 CREDITS FROM ANY OTHER LEVELS II/III COURSE.

#### COURSE LISTING

**LEVEL I (36 CREDITS)**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>COMP 1100</td>
<td>Computer Programming I</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>COMP 1200</td>
<td>Computer Programming II</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>COMP 1300</td>
<td>Mathematics for Computer Science I</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>INFO 1405</td>
<td>Programming for the WWW</td>
<td>6</td>
</tr>
</tbody>
</table>

**LEVEL II/III (64 CREDITS)**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>COMP 2000</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>COMP 2200</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>COMP 2500</td>
<td>Object-Oriented Programming</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>COMP 2700</td>
<td>Database Management Systems I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>COMP 3100</td>
<td>Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>COMP 3150</td>
<td>Computer Networks</td>
<td>4</td>
</tr>
</tbody>
</table>
### Evening University Programmes

#### BSc (General - Major in Computer Science)

(DISCONTINUED AS OF 2009/2010).

Students currently registered in this programme will be allowed to complete this programme under the regulation existing when they initially registered.

#### BSc Information Technology (IT)

(105 credits)

The duration of the programme is normally 5-7 years. (For further details on the programme structure, exemptions with credits and courses required for completing the BSc Information Technology please refer to the section on the BSc Information Technology Programme. under the Day Programme)

The following list indicates courses to be taught in 2011/2012

### COURSE LISTING

#### LEVEL I (36 CREDITS)

**CORE COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 1400</td>
<td>Information Technology Fundamentals</td>
<td>6</td>
</tr>
<tr>
<td>INFO 1405</td>
<td>Programming for the WWW</td>
<td>6</td>
</tr>
</tbody>
</table>

#### LEVELS II/III (64 CREDITS)

**CORE COURSES** (48 credits of core courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 2415</td>
<td>Enterprise Database Systems</td>
<td>4</td>
</tr>
<tr>
<td>INFO 2420</td>
<td>Programming Fundamentals II</td>
<td>4</td>
</tr>
<tr>
<td>INFO 2425</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>INFO 3400</td>
<td>Fundamentals of Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>INFO 3405</td>
<td>Network Technologies</td>
<td>4</td>
</tr>
<tr>
<td>INFO 3415</td>
<td>Information Assurance and Security</td>
<td>4</td>
</tr>
</tbody>
</table>
SEMESTER 2
Course Code    Course Title                     Credits
INFO 2400  Information Systems Development  4
INFO 2405  Discrete Mathematics   4
INFO 2410  Fundamental Data Structures  4
INFO 3410  Web Systems and Technologies  4

SEMESTER 3
Course Code    Course Title                     Credits
INFO 2405  Discrete Mathematics   4
INFO 2415  Enterprise Data Systems  4
INFO 2425  Computer Architecture   4
INFO 3410  Web Systems and Technologies  4

ELECTIVES
12 credits of electives from the following:

SEMESTER 2
Course Code    Course Title                     Credits
INFO 3420  Programming Languages 4
INFO 3435  E-Commerce   4
INFO 3490  Project     4

COURSES NOT OFFERED IN ACADEMIC YEAR 2011/2012
INFO3425 Professional Ethics & Law  4
INFO3430 Introduction to Scientific Computing 4

BSc Computer Science and Management
(105 CREDITS)
Students are required to complete 36 credits at Level 1 and at Levels II/III: 32 credits of Computer Science courses, 15 credits of Management courses and a minimum of 13 credits of Computer Science, Mathematics, Economics or Management courses.

Please note:
(1) Acceptance for the BSc Computer Science and Management does not guarantee acceptance for courses in the Faculty of Social Sciences other than those specified below.
(2) Students are advised that, in choosing courses from the Faculty of Social Sciences, the regulations from that Faculty will apply. In particular, credit will not be given for two courses which the Faculty of Social Sciences designates as having substantial overlap. E.g. ECON 2001 and MGMT 2032.
A minimum of thirteen (13) credits chosen from Levels II/III Computer Science, Mathematics, Economics or Management courses.

FOUNDATION COURSES (9 CREDITS)

<table>
<thead>
<tr>
<th>SEMESTERS 1 &amp; 2 Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 1101</td>
<td>Caribbean Civilization</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 1301</td>
<td>Law, Governance, Economy and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEMESTER 2 Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 1102</td>
<td>Academic Writing for Different Disciplines (Option C)</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL DEGREE CREDITS 105

DEPARTMENT OF LIFE SCIENCES

COURSE LISTING

List of Courses Offered in the Department of Life Sciences for the 2011/2012 academic year.

KEY

* Offered in alternate years

** Taught by Open Campus (School of Continuing Studies); not counted towards a student’s credit requirements for the award of the BSc Degree

*** Students must consult with course coordinator prior to registering for BIOL3068 or BIOL3069

SEMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 0061</td>
<td>Preliminary Biology I**</td>
<td>0</td>
</tr>
<tr>
<td>BIOL 1065</td>
<td>Diversity of Plants and Animals</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1261</td>
<td>Diversity of Organisms</td>
<td>6</td>
</tr>
<tr>
<td>BIOL 2063</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2162</td>
<td>Advanced Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2263</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2361</td>
<td>Biomolecules and Energy Metabolism</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2363</td>
<td>Metabolism</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2365</td>
<td>Comparative Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2461</td>
<td>Humans and the Environment</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2462</td>
<td>Caribbean Island Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3061</td>
<td>Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project***</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3361</td>
<td>Applied Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3463</td>
<td>Pollution and Environmental Management</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3763</td>
<td>Crop Improvement</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3766</td>
<td>Plant Ecophysiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3767</td>
<td>Biology of Plant Pathogens</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3861</td>
<td>Animal Behaviour</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3863</td>
<td>Tropical Aquaculture</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3865</td>
<td>Animal Biotechnology</td>
<td>(Will not be offered in 2011/12)</td>
</tr>
</tbody>
</table>

SEMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 0662</td>
<td>Preliminary Biology II**</td>
<td>0</td>
</tr>
<tr>
<td>BIOL 1262</td>
<td>Introductory Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1362</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1462</td>
<td>General Ecology and Biometry</td>
<td>6</td>
</tr>
<tr>
<td>BIOL 2062</td>
<td>Freshwater Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2063</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2362</td>
<td>Further Metabolism and Gene</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2364</td>
<td>Advanced General Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2761</td>
<td>Plant Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2862</td>
<td>Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2864</td>
<td>Parasitism*</td>
<td>(Will not be offered in 2011/12)</td>
</tr>
<tr>
<td>BIOL 2866</td>
<td>Entomology*</td>
<td>(Will not be offered in 2012/13)</td>
</tr>
<tr>
<td>BIOL 3062</td>
<td>Conservation Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project***</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3262</td>
<td>Microbial Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3264</td>
<td>Functional Design in Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3362</td>
<td>Selected Topics in Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3364</td>
<td>Clinical Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3461</td>
<td>Coastal Ecosystem Management</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3464</td>
<td>Tropical Forest Ecology and</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Management</td>
<td></td>
</tr>
<tr>
<td>BIOL 3662</td>
<td>Evolution and Biosystematics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3762</td>
<td>Plant Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3764</td>
<td>Economic Botany</td>
<td>(Will not be offered in 2011/12)</td>
</tr>
<tr>
<td>BIOL 3864</td>
<td>Fisheries Biology and Management</td>
<td>4</td>
</tr>
<tr>
<td>GENS 3260</td>
<td>Gender and Science</td>
<td>4</td>
</tr>
</tbody>
</table>

SEMESTER 3 (SUMMER)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3068</td>
<td>Field Course in Neotropical Ecology***</td>
<td>4</td>
</tr>
</tbody>
</table>

MAJORS

The following majors are offered by the department:

• Biochemistry
• Biology
• Environmental & Natural Resource Management

Students pursuing a major may also elect to do any of the minors listed below. Note that common courses can only be counted once, for either the major or the minor. Students doing the major in ENRM are not permitted to do a minor in Environmental Biology.

Prior to 2011/12, students majoring in Biology and Biochemistry should credit BIOL 2361 (Biomolecules and Energy Metabolism) to the Major in Biochemistry and BIOL 3061 (Molecular Biology) to the Major in Biology. Such students should therefore choose an additional elective from each major to replace BIOL 2361 or BIOL 3061.
With effect from 2011/12, students majoring in **Biology** and **Biochemistry** should credit BIOL 3061 - Molecular Biology to the major in Biology. Such students should not read BIOL 2365 - Comparative Biochemistry, but should choose an elective from the given Biology electives to replace BIOL 2365. Students should also choose an elective from the given Biochemistry electives to replace BIOL 3061.

**Biol 1061** - Cell Biology and Genetics will not be credited with AGRI 1011 - Introduction to General Genetics and AGRI 1013 - Introduction to Biochemistry;

**Biol 1261** - Diversity of Organisms will not be credited with AGRI 1012 - Microbiology or BIOL 1065 - Diversity of Plants and Animals;

**Biol 2263** - General Microbiology will not be credited with BIOL 2261 - Biology of Microorganisms;

**Biol 3264** - Functional Design in Biology will not be credited with BIOL 2861 - Function Design in Animals.

**Biol 2365** - Comparative Biochemistry will not be credited with BIOL 2361 - Biomolecules and Energy Metabolism.

### MINORS

- Biochemistry
- Biology
- Biotechnology
- Botany
- Environmental Biology
- Environmental & Natural Resource Management
- Marine Biology
- Zoology

**NOTE:** Students will be debarred from writing the final examination if they have not attended, completed and handed in laboratory reports for at least 75% of laboratory or field exercises.

### MAJORS

#### Major in Biochemistry

**COURSE LISTING**

**PREREQUISITE COURSES**

**LEVEL I**

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIOL 1261</td>
<td>Diversity of Organisms</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>CHEM 1060</td>
<td>Introductory Chemistry I</td>
<td>6</td>
</tr>
</tbody>
</table>

**LEVEL I**

<table>
<thead>
<tr>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIOL 1262</td>
<td>Introductory Genetics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIOL 1362</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
</tbody>
</table>

**CORE COURSES (28 CREDITS)**

**LEVEL II/III**

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIOL 2361</td>
<td>Biomolecules &amp; Energy Metabolism</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOL 2363</td>
<td>Metabolism</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOL 3061</td>
<td>Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOL 3361</td>
<td>Applied Biochemistry</td>
<td>4</td>
</tr>
</tbody>
</table>

**LEVEL II/III**

<table>
<thead>
<tr>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIOL 2362</td>
<td>Further Metabolism &amp; Gene Expression</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOL 2364</td>
<td>Advanced General Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOL 3362</td>
<td>Selected Topics in Biochemistry</td>
<td>4</td>
</tr>
</tbody>
</table>

**MAJOR ELECTIVES (4 CREDITS)**

Any 4 credits from the following:

**LEVEL II/III**

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOL 3865</td>
<td>Animal Biotechnology</td>
<td>4</td>
</tr>
</tbody>
</table>

(Will not be offered in 2011/12)

**LEVEL II/III**

<table>
<thead>
<tr>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOL 3262</td>
<td>Microbial Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIOL 3364</td>
<td>Clinical Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CHEM 2460</td>
<td>Principles of Chemical Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>
## Major in Biology

### COURSE LISTING

#### PREREQUISITE COURSES

<table>
<thead>
<tr>
<th>LEVEL I</th>
<th>SEMESTER 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Code</strong></td>
<td><strong>Course Title</strong></td>
</tr>
<tr>
<td>BIOL 1261</td>
<td>Diversity of Organisms</td>
</tr>
<tr>
<td>CHEM 1062**</td>
<td>Basic Chemistry for Life Sciences</td>
</tr>
</tbody>
</table>

** (For students without a pass in CAPE/GCE A’ Level Chemistry or equivalent)

<table>
<thead>
<tr>
<th>LEVEL I</th>
<th>SEMESTER 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Code</strong></td>
<td><strong>Course Title</strong></td>
</tr>
<tr>
<td>BIOL 1262</td>
<td>Introductory Genetics</td>
</tr>
<tr>
<td>BIOL 1362</td>
<td>Biochemistry I</td>
</tr>
<tr>
<td>BIOL 1462</td>
<td>General Ecology and Biometry</td>
</tr>
</tbody>
</table>

CORE COURSES (32 CREDITS)

<table>
<thead>
<tr>
<th>LEVEL II/III</th>
<th>SEMESTER 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Code</strong></td>
<td><strong>Course Title</strong></td>
</tr>
<tr>
<td>BIOL 2162</td>
<td>Advanced Genetics</td>
</tr>
<tr>
<td>BIOL 2263</td>
<td>General Microbiology</td>
</tr>
<tr>
<td>BIOL 2365</td>
<td>Comparative Biochemistry</td>
</tr>
<tr>
<td>BIOL 3061</td>
<td>Molecular Biology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL II/III</th>
<th>SEMESTER 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Code</strong></td>
<td><strong>Course Title</strong></td>
</tr>
<tr>
<td>BIOL 2761</td>
<td>Plant Physiology</td>
</tr>
<tr>
<td>BIOL 2862</td>
<td>Animal Physiology</td>
</tr>
<tr>
<td>BIOL 3264</td>
<td>Functional Design in Biology</td>
</tr>
<tr>
<td>BIOL 3662</td>
<td>Evolution &amp; Biosystematics</td>
</tr>
</tbody>
</table>

ELECTIVES FOR BIOLOGY DOUBLE MAJOR

<table>
<thead>
<tr>
<th>LEVEL II/III</th>
<th>SEMESTER 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Code</strong></td>
<td><strong>Course Title</strong></td>
</tr>
<tr>
<td>BIOL 2063</td>
<td>Marine Ecology</td>
</tr>
<tr>
<td>BIOL 2461</td>
<td>Humans &amp; the Environment</td>
</tr>
<tr>
<td>BIOL 2462</td>
<td>Caribbean Island Ecology</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
</tr>
<tr>
<td>BIOL 3763</td>
<td>Crop Improvement</td>
</tr>
<tr>
<td>BIOL 3766</td>
<td>Plant Ecophysiology</td>
</tr>
<tr>
<td>BIOL 3767</td>
<td>Biology of Plant Pathogens</td>
</tr>
<tr>
<td>BIOL 3861</td>
<td>Animal Behaviour</td>
</tr>
<tr>
<td>BIOL 3863</td>
<td>Tropical Aquaculture</td>
</tr>
<tr>
<td>*BIOL 3865</td>
<td>Animal Biotechnology</td>
</tr>
</tbody>
</table>

(Will not be offered in 2011/12)

<table>
<thead>
<tr>
<th>LEVEL II/III</th>
<th>SEMESTER 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Code</strong></td>
<td><strong>Course Title</strong></td>
</tr>
<tr>
<td>BIOL 2062</td>
<td>Freshwater Biology</td>
</tr>
<tr>
<td>BIOL 2063</td>
<td>Marine Ecology</td>
</tr>
<tr>
<td>BIOL 3062</td>
<td>Conservation Biology</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
</tr>
<tr>
<td>BIOL 3262</td>
<td>Microbial Biotechnology</td>
</tr>
<tr>
<td>BIOL 3461</td>
<td>Coastal Ecosystem Management</td>
</tr>
<tr>
<td>BIOL 3464</td>
<td>Tropical Forest Ecology and Management</td>
</tr>
<tr>
<td>BIOL 3762</td>
<td>Plant Biotechnology</td>
</tr>
<tr>
<td>BIOL 3864</td>
<td>Fisheries Biology &amp; Management</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL II/III</th>
<th>SEMESTER 3 (SUMMER)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Code</strong></td>
<td><strong>Course Title</strong></td>
</tr>
<tr>
<td>BIOL 3068</td>
<td>Field Course In Neotropical Ecology</td>
</tr>
</tbody>
</table>

## Major in Environmental & Natural Resource Management

This interdisciplinary programme is offered in conjunction with the Departments of Life Sciences, Chemistry, Food Production and Agricultural Economics & Extension

(i) It is recommended that AGRI 1012 Microbiology, be done in Semester 1, Year 2 for those students doing BIOL 1065

(ii) Students with CAPE/GCE A’ level Biology or equivalent should do BIOL 1261 instead of BIOL 1065. Students reading BIOL1261 should not read BIOL1065 or AGRI 1012. Students doing the major in ENRM are not permitted to do the minor in Environmental Biology.

### COURSE LISTING

#### PREREQUISITE COURSES

<table>
<thead>
<tr>
<th>LEVEL I</th>
<th>SEMESTER 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Code</strong></td>
<td><strong>Course Title</strong></td>
</tr>
<tr>
<td>AGBU 1005</td>
<td>Introduction to Microeconomics</td>
</tr>
<tr>
<td>AGRI 1012</td>
<td>Microbiology</td>
</tr>
<tr>
<td>AGSL 1000</td>
<td>Soils and the Environment</td>
</tr>
<tr>
<td>BIOL 1065</td>
<td>Diversity of Plants and Animals</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL I</th>
<th>SEMESTER 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Code</strong></td>
<td><strong>Course Title</strong></td>
</tr>
<tr>
<td>AGBU 1002</td>
<td>Introduction to Agro-Environmental Management</td>
</tr>
<tr>
<td>BIOL 1462</td>
<td>General Ecology &amp; Biometry</td>
</tr>
</tbody>
</table>

CORE COURSES (24 CREDITS)

<table>
<thead>
<tr>
<th>LEVEL II/III</th>
<th>SEMESTER 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Code</strong></td>
<td><strong>Course Title</strong></td>
</tr>
<tr>
<td>AGSL 3004</td>
<td>Integrated Watershed Management</td>
</tr>
<tr>
<td>BIOL 2461</td>
<td>Humans &amp; the Environment</td>
</tr>
<tr>
<td>BIOL 3463</td>
<td>Pollution and Environmental Management</td>
</tr>
</tbody>
</table>
### LEVEL II/III
#### SEMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSL 3002</td>
<td>Soil Survey &amp; Land Evaluation</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3062</td>
<td>Conservation Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3464</td>
<td>Tropical Forest Ecology &amp; Management</td>
<td>4</td>
</tr>
</tbody>
</table>

#### MAJOR ELECTIVES (8 CREDITS)

Any 8 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### SEMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU 3010</td>
<td>Environmental Economics</td>
<td>4</td>
</tr>
<tr>
<td>AGEX 2001</td>
<td>Operations and Management of Extension Programmes</td>
<td>4</td>
</tr>
<tr>
<td>AGSL 3010</td>
<td>Geophysical and Environmental Soil Sensing</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2063</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2462</td>
<td>Caribbean Island Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3766</td>
<td>Plant Ecophysiology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3560</td>
<td>Environmental Chemistry</td>
<td>4</td>
</tr>
</tbody>
</table>

#### LEVEL II/III
#### SEMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 3001</td>
<td>Climate Change Impact and Management</td>
<td>4</td>
</tr>
<tr>
<td>AGBU 3003</td>
<td>Introduction to Ecotourism</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2062</td>
<td>Freshwater Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2063</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3461</td>
<td>Coastal Ecosystem Management</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3864</td>
<td>Fisheries Biology &amp; Management</td>
<td>4</td>
</tr>
</tbody>
</table>

#### SEMESTER 3 (SUMMER)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3068</td>
<td>Field Course in Neotropical Ecology</td>
<td>4</td>
</tr>
</tbody>
</table>

Students wishing to do JOINT MAJORS in Environmental & Natural Resource Management and Biology should register for the following Level I courses:

#### SEMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU1005</td>
<td>Introduction to Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>AGSL1000</td>
<td>Soils and the Environment</td>
<td>4</td>
</tr>
<tr>
<td>BIOL1261</td>
<td>Diversity of Organisms</td>
<td>6</td>
</tr>
</tbody>
</table>

#### SEMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBU1002</td>
<td>Introduction to Agro-Environmental Management</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1262</td>
<td>Introductory Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1362</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1462</td>
<td>General Ecology and Biometry</td>
<td>6</td>
</tr>
</tbody>
</table>

---

### MINORS

**NOTE:** Research projects BIOL 3069 OR AGRI 3013 done under a relevant area, will be considered towards the following minors in that discipline. Please consult the Head of Department before registering for these courses.

#### Minor in Biochemistry

(16 CREDITS)

**COURSE LISTING**

**CORE COURSES (8 CREDITS)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2361</td>
<td>Biomolecules &amp; Energy Metabolism</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2363</td>
<td>Metabolism</td>
<td>4</td>
</tr>
</tbody>
</table>

**MINOR ELECTIVES**

Any 8 credits from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3061</td>
<td>Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3361</td>
<td>Applied Biochemistry</td>
<td>4</td>
</tr>
</tbody>
</table>

#### LEVEL II/III
#### SEMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2362</td>
<td>Further Metabolism and Gene Expression</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2364</td>
<td>Advanced General Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3362</td>
<td>Selected Topics in Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3364</td>
<td>Clinical Biochemistry</td>
<td>4</td>
</tr>
</tbody>
</table>

---

### Minor in Biology

**COURSE LISTING**

**LEVEL I (PREREQUISITES)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1262</td>
<td>Introductory Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1362</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
</tbody>
</table>

AND 16 credits of Level II/III courses as follows:

**CORE COURSES (8 CREDITS)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2862</td>
<td>Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2761</td>
<td>Plant Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>
ELECTIVES: Any other 8 credits of electives from the following courses:

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2263</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2162</td>
<td>Advanced Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2365</td>
<td>Comparative Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2462</td>
<td>Caribbean Island Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3061</td>
<td>Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**LEVEL III**

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3264</td>
<td>Functional Design in Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3662</td>
<td>Evolution and Biosystematics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 3 (SUMMER)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3068</td>
<td>Field Course in Neotropical Ecology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Minor in Botany**

(16 CREDITS)

**COURSE LISTING**

Any 16 credits from the following courses

**LEVEL II/III**

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2462</td>
<td>Caribbean Island Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3763</td>
<td>Crop Improvement</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3766</td>
<td>Plant Ecophysiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2761</td>
<td>Plant Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3762</td>
<td>Plant Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3766</td>
<td>Plant Ecophysiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 3 (SUMMER)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3068</td>
<td>Field Course in Neotropical Ecology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Minor in Biotechnology**

(15/16 CREDITS)

**COURSE LISTING**

Any 15/16 credits from the following courses

**LEVEL II/III**

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3763</td>
<td>Crop Improvement</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3865</td>
<td>Animal Biotechnology (Not offered 2012/12)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3061</td>
<td>Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3763</td>
<td>Crop Improvement</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 3 (SUMMER)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3061</td>
<td>Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3865</td>
<td>Animal Biotechnology (Not offered 2012/12)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**Minor in Environmental Biology**

(16 CREDITS)

**COURSE LISTING**

Any 16 credits from the following courses

**LEVEL II/III**

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2063</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2461</td>
<td>Humans and the Environment</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2462</td>
<td>Caribbean Island Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3766</td>
<td>Plant Ecophysiology</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2062</td>
<td>Freshwater Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3062</td>
<td>Conservation Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3464</td>
<td>Tropical Forest Ecology and</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Management</td>
<td></td>
</tr>
<tr>
<td>BIOL 2063</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 3 (SUMMER)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3068</td>
<td>Field Course in Neotropical Ecology</td>
<td>4</td>
</tr>
</tbody>
</table>
Minor in Environmental & Natural Resource Management  
(16 CREDITS)

**COURSE LISTING**
Any 16 credits from the following courses

<table>
<thead>
<tr>
<th>LEVEL II/III</th>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AGSL 3004</td>
<td>Integrated Watershed Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 2461</td>
<td>Humans &amp; the Environment</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 2462</td>
<td>Caribbean Island Ecology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3463</td>
<td>Pollution and Environmental Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AGSL 3010</td>
<td>Geophysical and Environmental Soil Sensing</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3766</td>
<td>Plant Ecophysiology</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL II/III</th>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AGSL 3002</td>
<td>Soil Survey &amp; Land Evaluation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3464</td>
<td>Tropical Forest Ecology &amp; Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3062</td>
<td>Conservation Biology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEMESTER 3 (SUMMER)</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIOL 3068</td>
<td>Field Course In Neotropicall Ecology</td>
<td>4</td>
</tr>
</tbody>
</table>

Minor in Marine Biology  
(16 CREDITS)

**COURSE LISTING**
Any 16 credits from the following courses

<table>
<thead>
<tr>
<th>LEVEL II/III</th>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BIOL 2063</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3863</td>
<td>Tropical Aquaculture</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL II/III</th>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BIOL 2063</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3461</td>
<td>Coastal Ecosystem Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3864</td>
<td>Fisheries Biology and Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEMESTER 3 (SUMMER)</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIOL 3068</td>
<td>Field Course in Neotropicall Ecology</td>
<td>4</td>
</tr>
</tbody>
</table>

Minor in Zoology  
(16 CREDITS)

**COURSE LISTING**
Any 16 credits from the following courses

<table>
<thead>
<tr>
<th>LEVEL II/III</th>
<th>SEMESTER 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BIOL 2462</td>
<td>Caribbean Island Ecology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3861</td>
<td>Animal Behaviour</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL II/III</th>
<th>SEMESTER 2</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BIOL 2862</td>
<td>Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 2864</td>
<td>Parasitism</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 2866</td>
<td>Entomology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3662</td>
<td>Evolution and Biosystematics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 3069</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEMESTER 3 (SUMMER)</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIOL 3068</td>
<td>Field Course In Neotropicall Ecology</td>
<td>4</td>
</tr>
</tbody>
</table>

*offered in alternate years.
DEPARTMENT OF MATHEMATICS & STATISTICS

Please note:
Students reading courses in Mathematics in the Faculty are advised to clear with the Head, Department of Mathematics & Statistics, before registering for any course in the Faculty of Social Sciences that involves Mathematics or Statistics.

COURSE LISTING

KEY:
##  Students pursuing MATH 2140 and MATH 2150 will not be credited for MATH 2190.
**  Taught by Open Campus; not counted towards a student's credit requirements for the award of the BSc Degree.

LIST OF COURSES OFFERED IN THE DEPARTMENT OF MATHEMATICS & STATISTICS FOR THE 2011/2012 ACADEMIC YEAR.

<table>
<thead>
<tr>
<th>Semester 1 Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 0100</td>
<td>Pre-Calculus**</td>
<td>0</td>
</tr>
<tr>
<td>MATH 1115</td>
<td>Fundamental Mathematics for the General Sciences I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1125</td>
<td>Fundamental Mathematics for the General Sciences II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1140</td>
<td>Basic Introductory Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>MATH 1160</td>
<td>Introductory Applied Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>MATH 2100</td>
<td>Abstract Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2120</td>
<td>Analysis &amp; Mathematical Methods I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2140</td>
<td>Introduction to Probability</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2170</td>
<td>Introduction to Combinatorics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2210</td>
<td>Mathematics of Finance</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3240</td>
<td>Real Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3250</td>
<td>Fluid Dynamics I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3280</td>
<td>Introduction to Mathematical Modelling</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3310</td>
<td>Life Contingencies</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3351</td>
<td>Regression and Time Series Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3400</td>
<td>Graph Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3420</td>
<td>Advanced Algebra I - Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3450</td>
<td>Statistical Theory I</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2 Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 0110</td>
<td>Calculus &amp; Analytical Geometry**</td>
<td>0</td>
</tr>
<tr>
<td>MATH 1125</td>
<td>Fundamental Mathematics for the General Sciences I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1125</td>
<td>Fundamental Mathematics for the General Sciences II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1140</td>
<td>Functions of Real Variables</td>
<td>6</td>
</tr>
<tr>
<td>MATH 1170</td>
<td>Introductory Applied Mathematics II</td>
<td>6</td>
</tr>
</tbody>
</table>

COURSES NOT OFFERED IN ACADEMIC YEAR 2011/2012

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2200</td>
<td>Probability and Statistics II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3110</td>
<td>Mathematical Statistics - Probability Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3120</td>
<td>Mathematical Statistics - Statistical Inference</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3260</td>
<td>Fluid Dynamics II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3410</td>
<td>Combinatorics and Computing</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3420</td>
<td>Special Topics in Graph Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

Major in Mathematics

(32 CREDITS)

COURSE LISTING

PREREQUISITE COURSES

LEVEL I

<table>
<thead>
<tr>
<th>Semester 1 Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1140</td>
<td>Basic Introductory Mathematics</td>
<td>6</td>
</tr>
</tbody>
</table>

SEMIEMTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2100</td>
<td>Abstract Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2120</td>
<td>Analysis &amp; Mathematical Methods I</td>
<td>4</td>
</tr>
</tbody>
</table>

SEMIEMTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2110</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2150</td>
<td>Introduction to Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2160</td>
<td>Analysis &amp; Mathematical Methods II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2180</td>
<td>Introduction to Optimization</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2190</td>
<td>Probability and Statistics I ##</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2220</td>
<td>Introduction to Actuarial Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3290</td>
<td>Combinatorics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3320</td>
<td>Risk Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3321</td>
<td>Principles of Asset/Liability</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3450</td>
<td>Statistical Theory I</td>
<td>4</td>
</tr>
</tbody>
</table>

ELECTIVES (16 credits)

(At least 8 credits must be selected from Level III Mathematics courses)
### Levels II/III

#### Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2140</td>
<td>Introduction to Probability</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2170</td>
<td>Introduction to Combinatorics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2210</td>
<td>Mathematics of Finance</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3240</td>
<td>Real Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3250</td>
<td>Fluid Dynamics I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3280</td>
<td>Introduction to Mathematical Modelling I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3310</td>
<td>Life Contingencies</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3351</td>
<td>Regression and Time Series Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3400</td>
<td>Graph Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3430</td>
<td>Advanced Algebra I - Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3450</td>
<td>Statistical Theory I</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2150</td>
<td>Introduction to Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2180</td>
<td>Introduction to Optimization</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2220</td>
<td>Probability and Statistics I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2250</td>
<td>Introduction to Actuarial Maths</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3210</td>
<td>Principles of Asset/Liability Management Actuarial Science</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3290</td>
<td>Combinatorics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3320</td>
<td>Risk Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3440</td>
<td>Advanced Algebra II - Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3460</td>
<td>Statistical Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3470</td>
<td>Sampling Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3500</td>
<td>Complex Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Levels II/III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2140</td>
<td>Introduction to Probability</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2170</td>
<td>Introduction to Combinatorics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2210</td>
<td>Mathematics of Finance</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3240</td>
<td>Real Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3250</td>
<td>Fluid Dynamics I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3280</td>
<td>Introduction to Mathematical Modelling I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3310</td>
<td>Life Contingencies</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3351</td>
<td>Regression and Time Series Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3400</td>
<td>Graph Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3430</td>
<td>Advanced Algebra I - Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3450</td>
<td>Statistical Theory I</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Levels II/III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2150</td>
<td>Introduction to Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2220</td>
<td>Probability and Statistics I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3240</td>
<td>Advanced Algebra II - Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3400</td>
<td>Real Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3410</td>
<td>Combinatorics and Computing</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3420</td>
<td>Special Topics in Graph Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

---

### Core Courses (16 credits):

#### Levels II

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2100</td>
<td>Abstract Algebra</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 2120</td>
<td>Analysis &amp; Mathematical Methods I</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2110</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2160</td>
<td>Analysis &amp; Mathematical Methods II</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Electives (48 credits)

(At least 32 credits must be selected from Level III Mathematics courses)

#### Levels II/III

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3240</td>
<td>Real Analysis</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 3250</td>
<td>Fluid Dynamics I</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 3280</td>
<td>Introduction to Mathematical Modelling I</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 3310</td>
<td>Life Contingencies</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 3351</td>
<td>Regression and Time Series Analysis</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 3400</td>
<td>Graph Theory</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 3430</td>
<td>Advanced Algebra I - Theory</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 3450</td>
<td>Statistical Theory I</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

### The Following Electives for the Major in Mathematics Will Not Be Offered in the Academic Year 2010/2011

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2200</td>
<td>Probability and Statistics II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3110</td>
<td>Mathematical Statistics - Probability Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3120</td>
<td>Mathematical Statistics - Statistical Inference</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3260</td>
<td>Fluid Dynamics II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3410</td>
<td>Combinatorics and Computing</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3420</td>
<td>Special Topics in Graph Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

### Double Major in Mathematics

(64 CREDITS)

#### Course Listing

### Prerequisite Courses

#### Level I

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1140</td>
<td>Basic Introductory Mathematics</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1150</td>
<td>Functions of Real Variables</td>
<td>6</td>
</tr>
</tbody>
</table>

### The Following Electives for the Double Major in Mathematics Will Not Be Offered in Academic Year 2011/2012

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2200</td>
<td>Probability and Statistics II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3110</td>
<td>Mathematical Statistics - Probability Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3120</td>
<td>Mathematical Statistics - Statistical Inference</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3260</td>
<td>Fluid Dynamics II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3410</td>
<td>Combinatorics and Computing</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3420</td>
<td>Special Topics in Graph Theory</td>
<td>4</td>
</tr>
</tbody>
</table>
## Minor in Mathematics (16 CREDITS)

### COURSE LISTING

**CORE COURSES (8 credits):**

**LEVEL II**

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EITHER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 2100</td>
<td>Abstract Algebra</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 2120</td>
<td>Analysis &amp; Mathematical Methods I</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EITHER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 2110</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 2160</td>
<td>Analysis &amp; Mathematical Methods II</td>
<td>4</td>
</tr>
</tbody>
</table>

**ELECTIVES:**

Any 8 credits from the following:

**LEVELS II/III**

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2140</td>
<td>Introduction to Probability</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2170</td>
<td>Introduction to Combinatorics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2220</td>
<td>Mathematics of Finance</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3240</td>
<td>Real Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3250</td>
<td>Fluid Dynamics I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3280</td>
<td>Introduction to Mathematical Modelling I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3320</td>
<td>Life Contingencies</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3351</td>
<td>Regression and Time Series Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3400</td>
<td>Graph Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3430</td>
<td>Advanced Algebra I - Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3450</td>
<td>Statistical Theory I</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2150</td>
<td>Introduction to Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2180</td>
<td>Introduction to Optimization</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2390</td>
<td>Probability and Statistics I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2220</td>
<td>Introduction to Actuarial Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3290</td>
<td>Combinatorics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3320</td>
<td>Risk Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3321</td>
<td>Principles of Asset/Liability</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3440</td>
<td>Advanced Algebra II - Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3460</td>
<td>Statistical Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3470</td>
<td>Sampling Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3500</td>
<td>Complex Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

The following electives for the minor in Mathematics will not be offered in the academic year 2011/2012:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2200</td>
<td>Probability and Statistics II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3110</td>
<td>Mathematical Statistics - Probability Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3120</td>
<td>Mathematical Statistics - Statistical Inference</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3260</td>
<td>Fluid Dynamics II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3410</td>
<td>Combinatorics and Computing</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3420</td>
<td>Special Topics in Graph Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

## Minor in Statistics (16 CREDITS)

### COURSE LISTING

**LEVELS II/III**

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3450</td>
<td>Statistical Theory I</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2150</td>
<td>Introduction to Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3460</td>
<td>Statistical Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3470</td>
<td>Sampling Theory</td>
<td>4</td>
</tr>
</tbody>
</table>
### BSc Actuarial Science

(110 credits)

#### COURSE LISTING

**LEVEL I**

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1140</td>
<td>Basic Introductory Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>COMP 1100</td>
<td>Computer Programming I</td>
<td>6</td>
</tr>
<tr>
<td>ECON 1001</td>
<td>Introduction to Economics I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 1002</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1150</td>
<td>Function of Real Variables</td>
<td>6</td>
</tr>
<tr>
<td>COMP 1200</td>
<td>Computer Programming II</td>
<td>6</td>
</tr>
<tr>
<td>ECON 1002</td>
<td>Introduction to Economics II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 1003</td>
<td>Introduction to cost &amp; Managerial Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

**LEVELS II/III (65 credits)**

**SEMESTER 1**

**CORE COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2100</td>
<td>Abstract Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2120</td>
<td>Analysis and Mathematical Methods I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2140</td>
<td>Introduction to Probability Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2210</td>
<td>Mathematics of Finance I</td>
<td>4</td>
</tr>
<tr>
<td>MGMT2023</td>
<td>Financial Management I</td>
<td>3</td>
</tr>
</tbody>
</table>

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2110</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2160</td>
<td>Analysis and Mathematical Methods II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2150</td>
<td>Introduction to Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2220</td>
<td>Introduction to Actuarial Mathematics</td>
<td>4</td>
</tr>
</tbody>
</table>

**LEVELS III**

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT3048</td>
<td>Financial Management II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3351</td>
<td>Regression and Time Series Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3310</td>
<td>Life Contingencies</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3320</td>
<td>Risk Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3321</td>
<td>Principles of Asset/Liability Management for Actuarial Science</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3354</td>
<td>Actuarial Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**ELECTIVES:**

Four (4) credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3320</td>
<td>Risk Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3321</td>
<td>Principles of Asset/Liability Management for Actuarial Science</td>
<td>4</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES (7 CREDITS)**

Students may select any level III courses in or outside the faculty.

### Minor in Actuarial Science

(16 credits)

#### COURSE LISTING

**CORE COURSES (12 credits)**

**LEVELS II/III**

**SEMESTER 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2210</td>
<td>Mathematics of Finance I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3310</td>
<td>Life Contingencies</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2220</td>
<td>Introduction to Actuarial Mathematics</td>
<td>4</td>
</tr>
</tbody>
</table>

**ELECTIVES:**

Four (4) credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3320</td>
<td>Risk Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3321</td>
<td>Principles of Asset/Liability Management for Actuarial Science</td>
<td>4</td>
</tr>
</tbody>
</table>

**FOUNDATION COURSES (9 CREDITS)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 1101</td>
<td>Caribbean Civilization</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 1102</td>
<td>Academic Writing for Different Disciplines</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 1301</td>
<td>Law, Governance, Economy and Society</td>
<td>3</td>
</tr>
</tbody>
</table>
## DEPARTMENT OF PHYSICS

### COURSE LISTING

The following list indicates courses to be taught in 2011/2012.

#### SEMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 0070</td>
<td>Preliminary Physics I*</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 1110</td>
<td>Introductory Physics I</td>
<td>6</td>
</tr>
<tr>
<td>PHYS 2280</td>
<td>Mathematical Methods in Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2281</td>
<td>Modern Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2290</td>
<td>Introduction to Medical Physics and Bioengineering</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2291</td>
<td>Digital Electronics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2292</td>
<td>Meteorology, Climatology and Pollution</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2294</td>
<td>Materials Science</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3382</td>
<td>Electronics and Control Theory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3385</td>
<td>Electromagnetism Theory &amp; Applications</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3387</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3390</td>
<td>Further Medical Physics and Bioengineering</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3392</td>
<td>Physical Oceanography and Geohydrology</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3396</td>
<td>Ceramics</td>
<td>4</td>
</tr>
</tbody>
</table>

#### SEMESTER 1 (Continued)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1110</td>
<td>Introductory Physics I</td>
<td>6</td>
</tr>
<tr>
<td>PHYS 3381</td>
<td>Electronics &amp; Control Theory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3387</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

#### SEMESTER 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2282</td>
<td>Circuit Theory and Electronics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2283</td>
<td>Oscillation, Waves and Optics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2284</td>
<td>Thermodynamics and Solid State Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3391</td>
<td>Further Digital Electronics and Microprocessor Systems</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3392</td>
<td>Earth Materials, Earth Processes and Seismology</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3393</td>
<td>Further Materials Science</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3394</td>
<td>Thin Films and Vacuum Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

*Taught by Open Campus; not counted towards the credit requirements for the award of the BSc Degree.

---


2. Students repeating a course may carry over the practical coursework mark for a maximum of two (2) years. However, the theory coursework must be repeated. Please consult with the Head of Department.

## Major in Physics

32 CREDITS

### COURSE LISTING

#### PREREQUISITES

<table>
<thead>
<tr>
<th>LEVEL I</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER 1</td>
</tr>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>PHYS 1110</td>
</tr>
<tr>
<td>PHYS 2280</td>
</tr>
<tr>
<td>PHYS 2281</td>
</tr>
<tr>
<td>PHYS 3385</td>
</tr>
<tr>
<td>PHYS 3387</td>
</tr>
</tbody>
</table>

#### LEVEL II/III

| SEMESTER 1 |
| Course Code | Course Title                                      | Credits |
| PHYS 2282   | Circuit Theory and Electronics                    | 4       |
| PHYS 3391   | Oscillation, Waves and Optics                     | 4       |
| PHYS 3392   | Earth Materials, Earth Processes and Seismology   | 4       |
| PHYS 3393   | Further Materials Science                         | 4       |
| PHYS 3394   | Thin Films and Vacuum Physics                      | 4       |

## Physics Minors

### ELECTRONICS MINOR

16 CREDITS

| LEVEL II/III |
| SEMESTER 1 |
| Course Code | Course Title                                      | Credits |
| PHYS 2291   | Digital Electronics                               | 4       |
| PHYS 3382   | Electronics & Control Theory                      | 4       |

| SEMESTER 2 |
| Course Code | Course Title                                      | Credits |
| PHYS 2282   | Circuit Theory and Electronics                    | 4       |
| PHYS 3391   | Further Digital Electronics & Microprocessor Systems | 4       |
ENVIRONMENTAL PHYSICS MINOR
ANY 16 CREDITS FROM THE FOLLOWING:

LEVEL II/III
SEMIESTER 1
Course Code    Course Title                     Credits
PHYS 2292 Meteorology, Climatology and Pollution    4
PHYS 3392 Physical Oceanography and Geohydrology   4

SEMIESTER 2
Course Code    Course Title                     Credits
PHYS 2293 Fundamentals of Geophysics  4
PHYS 2295 Lasers and Solar Energy  4
PHYS 3393 Earth Materials, Earth Processes and Seismology  4

MATERIALS SCIENCE MINOR
ANY 16 CREDITS FROM THE FOLLOWING:

LEVEL II/III
SEMIESTER 1
Course Code    Course Title                     Credits
PHYS 2294 Materials Science   4
PHYS 3396 Ceramics    4

SEMIESTER 2
Course Code    Course Title                     Credits
PHYS 2295 Lasers and Solar Energy  4
PHYS 3394 Further Materials Science  4
PHYS 3395 Thin Films and Vacuum Physics  4

MEDICAL PHYSICS AND BIOENGINEERING MINOR
(16 credits)
LEVEL II/III
SEMIESTER 1
Course Code    Course Title                     Credits
PHYS 2290 Introduction to Medical Physics and Bioengineering  4
PHYS 2291 Digital Electronics   4

SEMIESTER 2
Course Code    Course Title                     Credits
PHYS 3391 Further Digital Electronics & Microprocessor Systems  4
PHYS 3390 Further Medical Physics and Bioengineering   4

Note: A student cannot declare a minor in both Electronics and Medical Physics and Bioengineering.

SECTION VIII - COURSE DESCRIPTIONS
ALPHABETICAL LISTING BY COURSE CODES

LEVEL: I
SEMIESTERS: 1
COURSE CODE: ACCT 1002
COURSE TITLE: INTRODUCTION TO FINANCIAL ACCOUNTING
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
DEPARTMENT RESPONSIBLE: MANAGEMENT STUDIES
COURSE DESCRIPTION: An introductory course designed for students of accounting and those in other areas of study. It aims at producing a practical and a theoretical understanding of the principles and concepts involved in the preparation of financial statements. Students are exposed to conceptual analytical approach with the aim of improving their critical thinking and communicative skills.
ASSESSMENT:
Coursework 25%
Final Examination 75%

LEVEL: I
SEMIESTERS: 2
COURSE CODE: ACCT 1003
COURSE TITLE: INTRODUCTION TO COST & MANAGERIAL ACCOUNTING
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
DEPARTMENT RESPONSIBLE: MANAGEMENT STUDIES
COURSE DESCRIPTION: This is an introductory course for students of accounting as well as other areas of study. It aims to acquaint them with the uses of accounting information and techniques useful to the manager in planning, decision-making and controlling organisational activities.
ASSESSMENT:
Coursework 25%
Examination 75%
LEVEL: II
SEMESTER: 1
COURSE CODE: ACCT 2017
COURSE TITLE: MANAGEMENT ACCOUNTING
NUMBER OF CREDITS: 3
PREREQUISITES: ACCT 1002 AND ACTT 1003
DEPARTMENT RESPONSIBLE: MANAGEMENT STUDIES
COURSE DESCRIPTION: The course explains how managerial accounting information is used by managers in manufacturing, retail, service and not-for-profit organisations to anticipate the future and monitor the activities of the business.

ASSESSMENT:
Coursework 25%
Final Examination 75%

LEVEL: I
SEMESTER: 1
COURSE CODE: AGBU 1002
COURSE TITLE: INTRODUCTION TO AGRO-ENVIRONMENTAL MANAGEMENT
NUMBER OF CREDITS: 4
PREREQUISITES: NONE
CO-REQUISITES: AGBU 1005
COURSE DESCRIPTION: The role and importance of the environment for social development and as a life support system. The nexus between agriculture and the environment. Agro-ecosystems structure and dynamics.

Economics of environmental resources: market failure and environmental degradation, externalities and public goods; optimal resource use/extraction and approaches for management of renewable resources.

Concept of the watershed as a management unit: hydrology, soils, natural forest, biodiversity and land use. The impact of agricultural practices on the environment viewed from an ecosystem perspective: deforestation, soil erosion / degradation, flooding, irrigation, loss of biodiversity and climate change. Case studies of impacts related to various agricultural systems: crop and livestock, subsistence and plantation farming, hillside and erodable soils, pesticide and chemical application, irrigated agriculture.

Integration of the concepts and issues discussed in designing sustainable agro-environmental systems for the tropics; focus on small island states. Case studies.

ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: I
SEMESTER: 2
COURSE CODE: AGBU 1005
COURSE TITLE: INTRODUCTION TO MICROECONOMICS
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Nature and Scope of Economics: General overview: Functions performed by economic systems; Resources/Factors of Production and Characteristics.
Demand and Supply: Concepts; definitions and introduction to factors affecting demand and supply; elasticities. Market Price and Quantity determination; interpretation and applications.
Theories of Consumer Behaviour: Marginal utility and indifference theories, Theory of Production, Supply and Cost: Production functions forms; profit maximisation behaviour and rationality in production. Market Structures and Forms: Market types and characteristics; profit maximisation behaviour in perfect competition and monopoly.

ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: I
SEMESTER: 2
COURSE CODE: AGBU 1006
COURSE TITLE: MACROECONOMIC FUNDAMENTALS FOR CARIBBEAN AGRICULTURE
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: This course will build on the microeconomic foundation of the behaviour of the consumer and the firm to the establishment of demand and supply for the entire country which includes that of government and the rest of the world. Students would then learn how to measure the progress of the economy, and determine the national income and gross domestic product. Next, the role of monetary and fiscal policy on inflation, unemployment, deficits and economic growth will be studied. And finally the Caribbean economy and agricultural sector will be integrated into the international setting, examining the concepts of free trade and the role of exchange rate. The role of international trade and agriculture as it relates to the economy are clearly articulated.

ASSESSMENT:
Coursework 40%
Final Examination 60%
LEVEL: II
SEMESTER: 1
COURSE CODE: AGBU 2000
COURSE TITLE: AGRICULTURE IN THE ECONOMY
NUMBER OF CREDITS: 4
PREREQUISITES: AGBU 1005 AND AGBU 1006
ASSESSMENT:
Coursework  40%
Final Examination 60%

LEVEL: II
SEMESTER: 1
COURSE CODE: AGBU 2002
COURSE TITLE: MANAGEMENT AND ECONOMICS OF AGRICULTURAL PRODUCTION AND MARKETING
NUMBER OF CREDITS: 4
PREREQUISITES: AGBU 1005 AND AGBU 1006
ASSESSMENT:
Coursework  40%
Final Examination 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: AGBU 2003
COURSE TITLE: APPLIED STATISTICS
NUMBER OF CREDITS: 3
PREREQUISITES: AGRI 1003
COURSE DESCRIPTION: This is an introductory course in Statistics with the aim of having students appreciate the role of Statistics in Agribusiness, Agricultural Economics and related fields as a fundamental tool of scientific investigation. The course introduces students to basic concepts and definitions in statistics, including descriptive statistics, probability distribution theory and the Normal Statistical Distribution. The method for the conduct of Statistical Inference is presented, including inference relating to a single population, differences between population means and the analysis of variance. The course concludes with a study of regression analysis.
ASSESSMENT:
Coursework  40%
Final Examination 60%
LEVEL: III  
SEMESTER: 2  
COURSE CODE: AGBU 3003  
COURSE TITLE: INTRODUCTION TO ECOTOURISM: PRODUCT DESIGN & MANAGEMENT  
NUMBER OF CREDITS: 4  
PREREQUISITES: NONE  
COURSE DESCRIPTION: This course examines the way in which ecotourism could be designed and developed as a viable business opportunity, and as a contributor to sustainable development in the Caribbean. By the end of the course you should be able to define the concept within a framework of social and economic development. This goal will be achieved by taking you through the various components of eco-tourism, highlighting in particular, the business potential of the concept. In this course, you will be supplied with tools to make practical decisions related to an ecotourism venture. No matter what your background maybe, you will find the concepts and perspectives contained in this course empower you to use ecotourism for more positive development. The material is developed with the specific needs of tropical small island states in mind.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: III  
SEMESTER: 2  
COURSE CODE: AGBU 3004  
COURSE TITLE: AGRICULTURAL FINANCE & FARM CREDIT  
NUMBER OF CREDITS: 3  
PREREQUISITES: AGBU 1005 AND AGBU 1006  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: III  
SEMESTER: 2  
COURSE CODE: AGBU 3005  
COURSE TITLE: INTRODUCTION TO QUANTITATIVE METHODS IN ECONOMICS  
NUMBER OF CREDITS: 3  
PREREQUISITES: AGBU 1005, AGBU 1006 AND AGRI 1003  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: III  
SEMESTER: 1  
COURSE CODE: AGBU 3006  
COURSE TITLE: AGRICULTURAL PROJECT APPRAISAL & IMPLEMENTATION  
NUMBER OF CREDITS: 4  
PREREQUISITES: AGBU 1005 AND AGBU 1006  
COURSE DESCRIPTION: The nature of project appraisal and its role in planning. Financial analysis techniques, benefit cost analysis. Project implementation techniques. Application to cases.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: III  
SEMESTER: 2  
COURSE CODE: AGBU 3007  
COURSE TITLE: NEW VENTURE CREATION AND MANAGEMENT  
NUMBER OF CREDITS: 4  
PREREQUISITES: AGBU 1005 OR AGBU 1006  
COURSE DESCRIPTION: The hands-on tools and techniques for launching and managing a sustainable small business. Frameworks and guidelines that can be used to formulate strategies relevant in the contemporary business environment. Emphasis will be placed on real world application of business theory through the building of an effective business plan, case study analysis and interaction with entrepreneurs.  
ASSESSMENT:  
Coursework 40%  
Examination 60%  

LEVEL: III  
SEMESTER: 4  
COURSE CODE: AGBU 3008  
COURSE TITLE: INTERNSHIP  
NUMBER OF CREDITS: 4  
PREREQUISITES: AGRI 1000  
COURSE DESCRIPTION: Ten-week attachment to an agri-business firm to gain practical experience and training in an agri-business environment.  
ASSESSMENT: 100% (Based on Workplace Supervisor's Report)
LEVEL: III  
SEMMTER: 2  
COURSE CODE: AGBU 3009  
COURSE TITLE: INTERNATIONAL TRADE POLICY AND REGULATIONS  
NUMBER OF CREDITS: 3  
PREREQUISITES: NONE  
COURSE DESCRIPTION: This course covers agricultural and food policies from domestic and international trade perspectives. Course examines the role of international trade in agricultural development; current debates about the effects of globalisation on developing countries; evolution of trade policies in the context of the Uruguay Round GATT Agreement and the WTO, the Lome Convention, Regional and Bilateral trade agreements and arrangements. Course also examines the Agreement on Agriculture and Sanitary and Phytosanitary Measures and international regulations as well as emerging trade agreements with implications for agriculture (Economic Partnership Agreements, Commodity Protocols and Special Trading Arrangements) and gives an introduction to trade negotiations.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: II  
SEMMTER: 1  
COURSE CODE: AGCP 2000  
COURSE TITLE: BIOSYSTEMS ENGINEERING PRINCIPLES  
NUMBER OF CREDITS: 3  
PREREQUISITES: AGRI 1003  
COURSE DESCRIPTION: Introduction to biosystems engineering; elementary surveying; farm planning and layout; animal waste management; selection of simple structural members; mechanical power and power units; electrical power and motors; sound and noise; insulation and heat flow; properties of moist air; thermal environment; ventilation and cooling systems for buildings; handling, moisture management and storage of biological products; irrigation; rainfall and surface run off; soil erosion and control.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: III  
SEMMTER: 2  
COURSE CODE: AGBU 3010  
COURSE TITLE: ENVIRONMENTAL ECONOMICS  
NUMBER OF CREDITS: 4  
PREREQUISITES: AGBU 1005 AND AGBU 1002  
COURSE DESCRIPTION: Human beings now face the challenge of sustainable development, where the needs are for cooperative alliances, and recycled waste flows. Environmental economics seeks to meet this challenge, and explores questions such as: Can we effectively develop policies to deal with the tricky issues of wealth distribution, population growth, international trade and energy in the world where more growth is no longer a simple solution? This course reviews underlying ecological economic theory, and shows how it can be applied to try to solve existing and emerging environmental problems.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: II  
SEMMTER: 1  
COURSE CODE: AGCP 2001  
COURSE TITLE: PRINCIPLES OF CROP SCIENCE AND PRODUCTION  
NUMBER OF CREDITS: 4  
PREREQUISITES: AGRI 1016  
COURSE DESCRIPTION: Cropping and cropping systems in the tropics with specific reference to the cropping systems in the Caribbean. Cultural practices employed in the production of tropical crops with emphasis on cereals and legumes. Methods of propagation, sexual and asexual, micro and macro propagation techniques. Seed production and storage. Principles involved in breeding and maintaining economic crops. Genetic engineering for crop improvement.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: III  
SEMMTER: 1 & 2  
COURSE CODE: AGBU 3012  
COURSE TITLE: PROJECT  
NUMBER OF CREDITS: 4  
PREREQUISITES: NONE  
COURSE DESCRIPTION: A project within a subject area relevant to the student’s degree option.  
ASSESSMENT:  
Project Report 80%  
Oral Presentation 20%  
*See Project Booklet for detailed guidelines  
NOTE: Students will be examined at the end of the semester in which they are registered
LEVEL: II
SEMESTER: 1
COURSE CODE: AGCP 3001
COURSE TITLE: VEGETABLE PRODUCTION
NUMBER OF CREDITS: 4
PREREQUISITES: AGCP 2001
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: AGCP 3002
COURSE TITLE: CROP PRODUCTION SYSTEMS
NUMBER OF CREDITS: 4
PREREQUISITES: AGCP 2001
COURSE DESCRIPTION: The role of crop production in agricultural development. The linkage between the cropping system, the farming system and the agricultural system. Major factors influencing cropping system development. Typologies of cropping systems in the tropics and the social, economic, natural resource; requirement and technological aspects of cropping systems for selected tropical crops. Approaches to evaluating cropping systems. Cropping system design for improving and sustaining productivity. New paradigms, including organic farming and integrated crop management and precision agriculture.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: AGCP 3004
COURSE TITLE: INTRODUCTION TO FLORICULTURE
NUMBER OF CREDITS: 4
PREREQUISITES: AGCP 2001
COURSE DESCRIPTION: The status of the international floriculture industry with special attention to the Caribbean and the importance of tropical species. People plant relations. Greenhouse production of potted foliage and flowering plants, greenhouse selection, management of the greenhouse environment, crop scheduling and management. Field production of cut flowers and cut foliage. After-sales potted plant care, post harvest management and utilisation of cut flowers.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: AGCP 3005
COURSE TITLE: LANDSCAPE AND TURFGRASS MANAGEMENT
NUMBER OF CREDITS: 4
PREREQUISITES: AGCP 2001
COURSE DESCRIPTION: The role of plants in human well-being, the importance of the landscape industry and the use of plants in private and public spaces. The history of gardens and garden design. Plant identification techniques. Tree and shrub growth, development selection, establishment and maintenance. Turfgrass and ground cover growth and development, selection, establishment and maintenance. The elements and principles of landscape design, design process; uses of plant materials in landscape design. Landscape installation and maintenance.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: AGCP 3006
COURSE TITLE: PRINCIPLES OF FRUIT CROP PRODUCTION
NUMBER OF CREDITS: 4
PREREQUISITES: AGCP 2001
COURSE DESCRIPTION: Introduction to the status of fruit crop industry with specific reference to tropical crops. The role of fruits in human nutrition. The scientific principles of fruit crop growth and yield development. Production principles and technologies used in commercial fruit crop enterprises for selected fruits. Assessment of the commercial potential of minor fruits. Current issues and research needs of tropical fruit crops.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: AGCP 3007
COURSE TITLE: POSTHARVEST TECHNOLOGY
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: The post harvest physiology and biochemistry of selected tropical fruits, vegetables, root crops and grains. The post harvest environment, including pathological agents, with particular reference to these crops. Physiological disorders. Post harvest handling systems. Introduction to basic equipment used in quality evaluation, refrigeration and storage systems, and general post harvest produce management.
ASSESSMENT:
Coursework 40%
Final Examination 60%
LEVEL: III  
SEMESTER: 1  
COURSE CODE: AGCP 3011  
COURSE TITLE: MAJOR CARIBBEAN EXPORT CROPS  
NUMBER OF CREDITS: 3  
PREREQUISITES: AGCP 2001  
COURSE DESCRIPTION: Historical, current and potential status of the industries of the export crops of major economic significance in the Caribbean including sugarcane, banana, coffee, cocoa, citrus, nutmeg and arrowroot. Origin, distribution, markets and producers, environmental requirements, traditional production systems and their socio-economic and environmental consequences. Impact of globalisation, agricultural diversification and environmental concerns on new production systems including organic production, post-harvest handling and utilisation in the Caribbean and other SIDS. Crop production for value chains vs. commodity markets. Production constraints and research needs.  
ASSESSMENT:  
Coursework  40%  
Final Examination  60%  

LEVEL: I  
SEMESTER: 1  
COURSE CODE: AGEX 1000  
COURSE TITLE: CARIBBEAN AGRICULTURE IN PERSPECTIVE: EVOLUTION, SOCIOLOGY AND CONTEMPORARY ISSUES  
NUMBER OF CREDITS: 4  
PREREQUISITES: NONE  
COURSE DESCRIPTION: This course provides an understanding of the evolution of Caribbean Agriculture, including the plantation and peasantry systems. Students are given an overview of the structure of the sector in terms of the crops, livestock, fisheries, forestry and value-added agribusiness. The multifunctional role and contribution of the sector to food and nutrition security, livelihoods, the environment and sustainable rural development are examined. The course includes a study of stratifications and social structures, as well as rural versus urban life and the role of the mass media in Caribbean societies. The course concludes with an examination of contemporary issues and an insight into the way forward for Caribbean agriculture.  
ASSESSMENT:  
Coursework 25%  
Final Examination 75%  

LEVEL: II  
SEMESTER: 1  
COURSE CODE: AGEX 2001  
COURSE TITLE: OPERATION AND MANAGEMENT OF EXTENSION PROGRAMMES  
NUMBER OF CREDITS: 4  
PREREQUISITES: AGEX 1000  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: III  
SEMESTER: 2  
COURSE CODE: AGEX 3000  
COURSE TITLE: TECHNOLOGY TRANSFER IN AGRICULTURE  
NUMBER OF CREDITS: 3  
PREREQUISITES: AGEX 1000  
ASSESSMENT:  
Coursework  40%  
Final Examination  60%
LEVEL: III
SEMESTER: 2
COURSE CODE: AGEX 3001
COURSE TITLE: ISLAND FOOD SYSTEMS
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: An understanding of island food systems of the Tropical World, from the view point of their sustainability and how sustainability links to livelihood, equity and governance among selected island communities. The influences of these concepts on the occupations in farming, fishing, mining, forestry and national policy. Health and Nutrition Issues, Land and Water Use Conflict and Food Security. Appropriate development decisions in order to sustain island food systems which continually benefit all citizens.

ASSESSMENT:
Coursework 40%
Final Examinations 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: AGEX 3003
COURSE TITLE: GENDER ISSUES IN AGRICULTURE
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Defining Gender as a social construct. Historical perspectives for Gender in Caribbean Agriculture. Gender roles and gender relations on the farm and in Agricultural Occupations. Gender Analyses. Gender sensitivity in decision-making which pertains to the agricultural industry. Feminist thinking. Masculinities.

ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1 and 2
COURSE CODE: AGEX 3012
COURSE TITLE: RESEARCH PROJECT
NUMBER OF CREDITS: 4
PREREQUISITES: NONE
COURSE DESCRIPTION: A project within a subject area relevant to the student’s degree option.

ASSESSMENT:
Project Report 80%
Oral Presentation 20%
*See Project Booklet for detailed guidelines
Students will be examined at the end of the semester in which they are registered.

LEVEL: DIPLOMA
SEMESTER: 1
COURSE CODE: AGEX 5001
COURSE TITLE: COMMUNITY ANALYSIS
NUMBER OF CREDITS: 4
PREREQUISITES: NONE
LEVEL: DIPLOMA
SEMESTER: 1
COURSE CODE: AGEX 5002
COURSE TITLE: EXTENSION PHILOSOPHY AND
PRINCIPLES
NUMBER OF CREDITS: 4
PREREQUISITES: NONE
ASSESSMENT:
Coursework 25%
Final Examinations 75%

LEVEL: DIPLOMA
SEMESTER: 1
COURSE CODE: AGEX 5003
COURSE TITLE: COMMUNICATIONS THEORY AND
PRACTICE
NUMBER OF CREDITS: 4
PREREQUISITES: NONE
COURSE DESCRIPTION: The communication process. Principles of effective communication. Practicals and laboratory exercises on communication techniques including printed media, radio programmes, the preparation and use of audio-visual material.
ASSESSMENT:
Coursework 25%
Final Examinations 75%

LEVEL: DIPLOMA
SEMESTER: 2
COURSE CODE: AGEX 5004
COURSE TITLE: CURRENT ISSUES IN AGRICULTURAL
AND RURAL DEVELOPMENT
NUMBER OF CREDITS: 4
PREREQUISITES: NONE
COURSE DESCRIPTION: A seminar series highlighting topical themes in agricultural and rural development and emphasising approaches and strategies that treat with such development in the Caribbean from an integrated and integral perspective.
ASSESSMENT:
Coursework 25%
Final Examinations 75%

LEVEL: DIPLOMA
SEMESTER: 1
COURSE CODE: AGEX 5005
COURSE TITLE: FIELD RESEARCH PROJECT
NUMBER OF CREDITS: 8
PREREQUISITES: NONE
COURSE DESCRIPTION: A project based on field research data collected and analysed by the candidate, for which a written report is submitted and an oral examination held.

LEVEL: DIPLOMA
SEMESTER: 2
COURSE CODE: AGEX 5006
COURSE TITLE: MANAGING EXTENSION FOR
AGRICULTURAL AND RURAL DEVELOPMENT
NUMBER OF CREDITS: 4
PREREQUISITES: NONE
COURSE DESCRIPTION: Agricultural and rural development. Organizational design and structure. The process of extension management; planning; organising; control systems. Human resource development; leadership, delegation and motivation; team building and conflict management; performance appraisal; staff training and development.
ASSESSMENT:
Coursework 25%
Examination 75%

LEVEL: DIPLOMA
SEMESTER: 2
COURSE CODE: AGEX 5007 COURSE TITLE: RURAL
SOCIAL SYSTEMS
NUMBER OF CREDITS: 4
PREREQUISITES: NONE
COURSE DESCRIPTION: A systems approach in the analysis of rural social relations. Definition and discussion of primary and secondary groups, roles and social status, geographic and cultural communities. Rural-urban drift and immigration processes. Structural and social Caribbean rural development. Policy issues and programmes in the promotion of integrated rural development.
ASSESSMENT:
Coursework 25%
Final Examination 75%

LEVEL: I
SEMESTER: 1
COURSE CODE: AGLS 1001
COURSE TITLE: ANATOMY AND PHYSIOLOGY OF
ANIMALS
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: A brief introduction to comparative anatomy and physiology of livestock including muscle and growth, circulation, respiration, digestion, reproduction, lactation, immunology, endocrinology and tropical environmental stress.
ASSESSMENT:
Coursework 40%
Examination 60%
LEVEL: II
SEMESTER: 1
COURSE CODE: AGLS 2002
COURSE TITLE: ANIMAL NUTRITION
NUMBER OF CREDITS: 3
PREREQUISITES: AGLS 1001
COURSE DESCRIPTION: The animal and its food; the nutrients and their digestion and metabolism; feedstuff used in animal diets; evaluation of feeds; feeding standards for maintenance, growth, reproduction and lactation; procedures in feed formulation.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: AGLS 3000
COURSE TITLE: POULTRY PRODUCTION
NUMBER OF CREDITS: 3
PREREQUISITES: AGLS 1001
COURSE DESCRIPTION: Structure of the poultry industry in CARICOM countries with emphasis on chickens. Species of poultry of commercial importance. Management practices including physiology, breeds and breeding, health maintenance, nutrition and feeding, housing and waste management, equipment, incubation (including hatchery management) and brooding. The rearing of breeder flocks, layers and broilers. Records, maintenance, handling, processing and marketing of poultry products.
ASSESSMENT:
Coursework 25%
Final Examination 75%

LEVEL: II
SEMESTER: 2
COURSE CODE: AGLS 2004
COURSE TITLE: LIVESTOCK PRODUCTS TECHNOLOGY
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Technology of milk, meat products and eggs; including quality, consumer demand, methods of storage, distribution and processing, preparation and market presentation. Skin preservation, processing and grading. Field visits.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: AGLS 3003
COURSE TITLE: RUMINANT PRODUCTION SYSTEMS
NUMBER OF CREDITS: 3
PREREQUISITES: AGLS 2002 AND AGLS 2005
COURSE DESCRIPTION: Structure of the ruminant industry in CARICOM, brief physiology of ruminants, management practices including breeds and breeding, feeding, health and disease prevention and control, housing and waste management, record keeping, planning new enterprises and use of new technologies. Systems of production for beef and dairy cattle, water buffalo, sheep and goats.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: AGLS 2005
COURSE TITLE: PARASITOLOGY, ANIMAL HEALTH AND DISEASE
NUMBER OF CREDITS: 3
PREREQUISITES: AGLS 1001
COURSE DESCRIPTION: Biology of parasites of major economic importance for various livestock species. Etiology, diagnosis, pathogenesis and management of parasitic infections, prophylaxis, therapeutics - diagnostic principles, infectious, production and parasitological diseases of cattle, small ruminants, pigs, poultry, rabbits and others, the epidemiology, clinical diagnosis, control and treatment of each disease with a focus on tropical/subtropical areas.
ASSESSMENT:
Coursework 40%
Final Examination 60%
LEVEL: III
SEMESTER: 2
COURSE CODE: AGLS 3005
COURSE TITLE: PRINCIPLES OF WILDLIFE MANAGMENT AND PRODUCTION
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Description and importance of wildlife. An introduction to Wildlife Management with particular reference to the neo-tropics. Approaches to Wildlife Conservation. To understand the concepts used in developing intensive systems of animal production for both domestic and non-domestic species. The description of intensive production models of the important neo-tropical species of wildlife.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: AGLS 3008
COURSE TITLE: APPLIED ANIMAL PHYSIOLOGY
NUMBER OF CREDITS: 3
PREREQUISITES: AGLS 1001
COURSE DESCRIPTION: The course will focus on applied reproductive physiology including assisted reproductive technologies including estrous synchronization, embryo transfer, superovulation, semen evaluation and cloning, manipulation of lactogenesis and galactopoiesis; modification of the digestive process including use of enzymes, feed additives, and feed processing to enhance rumen by-pass capacity, nutritional management to reduce environmental pollution, modify product composition and reduce metabolic disorders; modification of the growth process including the use of growth promotants and repartitioning agents; Stress physiology and manipulation of the Hypothalamo-Pituitary-Adrenal axis; transgenesis to enhance productivity and or change products and; nutrition reproduction interactions.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: I
SEMESTER: 2
COURSE CODE: AGRI 1003
COURSE TITLE: MATHEMATICS FOR SCIENTISTS
NUMBER OF CREDITS: 4
PREREQUISITES: NONE
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: I
SEMESTER: 2
COURSE CODE: AGRI 1010
COURSE TITLE: INTRODUCTION TO CROP AND LIVESTOCK PRODUCTION
NUMBER OF CREDITS: 4
PREREQUISITES: NONE
COURSE DESCRIPTION: Introduction to fundamental concepts of crop and livestock production. Provides an overview of crop production and deals with the major species of livestock in the CARICOM region, along with the factors that affect their productivity and profitability.
ASSESSMENT:
Coursework 20%
Final Examination 80%

LEVEL: I
SEMESTER: 2
COURSE CODE: AGRI 1011
COURSE TITLE: INTRODUCTION TO GENERAL GENETICS
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Review of historical development of genetics and its contribution to society. Study of basic principles of heredity including Mendel’s Laws, incomplete dominance, sex determination and sex linkage. Extension of Mendelian genetics to Population and Quantitative genetics; Chemical basis of heredity, genetic variation and recombinant DNA technology.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: I
SEMESTER: SUMMER
COURSE CODE: AGRI 1000
COURSE TITLE: PRACTICAL SKILLS
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Practical tropical crop and animal husbandry and farm machinery and equipment handling and usage. Activities include field trips to observe modern and appropriate agriculture technologies.
ASSESSMENT:
Report on activities undertaken and one test. Grading is pass or fail.
LEVEL: I
SEMESTER: 1
COURSE CODE: AGRI 1012
COURSE TITLE: MICROBIOLOGY
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: I
SEMESTER: 2
COURSE CODE: AGRI 1013
COURSE TITLE: INTRODUCTION TO BIOCHEMISTRY
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: The course will cover biomolecules including nucleotides and nucleic acids, proteins and amino acids, carbohydrates and lipids; Enzymes, including enzymatic catalysis, enzyme kinetics, regulation and inhibition; metabolism including, glycolysis, citric acid cycle, electron transport and oxidative phosphorylation, gluconeogenesis, glycerogenesis, lipogenesis, lipolysis, photosynthesis, amino acid metabolism, nucleotide metabolism; gene expression and replication including DNA repair, replication and recombination, transcription and RNA processing, translation and regulation of gene processing.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: I
SEMESTER: 2
COURSE CODE: AGRI 1016
COURSE TITLE: PLANT ANATOMY AND PHYSIOLOGY
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Introduction to the evolution, taxonomy and diversity of crop plants; support, transport and protective tissues; root and stem structure and modifications. Organs of perennation. Major C4 and C3 crop plants; Floral structure and seed dispersal. Fruit classification. Water relations of cells and whole plants; photosynthesis, translocation assimilate partitioning and plant productivity; ion uptake and mineral nutrition; germination, dormancy and seedling establishment; regulation of growth and development by hormonal and environmental factors: introduction to plant growth and analysis.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: AGRI 2000
COURSE TITLE: INTERNSHIP - SUMMER
NUMBER OF CREDITS: 4
PREREQUISITES: AGRI 1000
COURSE DESCRIPTION: Hands-on experience in agricultural activities on accredited commercial, semi-commercial, research or marketing institutions in any Caribbean country.
ASSESSMENT:
Coursework 100%
Host Evaluation 35%
Student Report 50%
Co-ordinator Evaluation 15%

LEVEL: II
SEMESTER: 2
COURSE CODE: AGRI 2001
COURSE TITLE: TROPICAL CROP PROTECTION
NUMBER OF CREDITS: 3
PREREQUISITES: AGLS 1001 AND AGRI 1016
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: AGRI 3000
COURSE TITLE: STATISTICAL METHODS
NUMBER OF CREDITS: 4
PREREQUISITES: AGRI 1003 OR CAPE MATHEMATICS OR EQUIVALENT
COURSE DESCRIPTION: Basic descriptive statistics, basic concepts and terms in inferential statistics. Binomial and Normal Distributions. Inference about a single population mean and the difference between two populations mean. Analysis of categorical data: assessing independence of factors and Goodness of Fit Test. Design of experiments and analysis of variance, correlation and simple linear regression.
ASSESSMENT:
Coursework 40%
Final Examination 60%
LEVEL: III  
SEMESTER: 2  
COURSE CODE: AGRI 3001  
COURSE TITLE: CLIMATE CHANGE IMPACT & MANAGEMENT  
NUMBER OF CREDITS: 4  
PREREQUISITES: BIOL 1462 OR AGEX 1000  
ASSESSMENT:  
Coursework  40%  
Final Examination  60%  

LEVEL: III  
SEMESTER: 1  
COURSE CODE: AGRI 3006  
COURSE TITLE: PRINCIPLES OF ANIMAL AND PLANT BREEDING  
NUMBER OF CREDITS: 3  
PREREQUISITES: AGRI 1011  
COURSE DESCRIPTION: Core contents will include mitosis and meiosis including oogenesis and spermatogenesis; Mendelian genetics, including independent assortment, use of laws of probability and chi-square analysis to explain the genetic events and the influence of change on genetic data; Extensions of mendelian genetics including the concept of multiple alleles, incomplete, partial and co-dominance, epistasis, sex-linked and sex-influenced inheritance; Quantitative genetics including inheritance of quantitative and polygenic traits; heritability; Linkage crossing over mapping; Chromosome mutations and variation in chromosome number including nondisjunction, inversion, deletions and translocations; Extra nuclear inheritance, including mitochondrial and chloroplasts DNA, genomic imprinting; Genetics of Bacteria and Bacteriophages and Population genetics including allelic frequencies, Hardy-Weinberg law, effects of mutations, migration, genetic drift and non random mating on genotype and allelic frequencies, genetic basis for inbreeding depression; Genetic improvement principles, estimating genetic value including contemporary groups, EPDs, EBVs, accuracy and genetic markers; selection including methods of selection; principles of mating systems.  
ASSESSMENT:  
Coursework  40%  
Examination  60%  

LEVEL: III  
SEMESTER: 2  
COURSE CODE: AGRI 3007  
COURSE TITLE: CURRENT ISSUES IN AGRICULTURE  
NUMBER OF CREDITS: 3  
PREREQUISITES: AGRI 1000 AND AGRI 2000  
COURSE DESCRIPTION: It involves directed study on any topic of interest to the students, may include library and laboratory learning experiences not otherwise available to undergraduate students.  
ASSESSMENT:  
Written Report of Study  60%  
Oral Presentation/Defence  40%  

LEVEL: III  
SEMESTER: 2  
COURSE CODE: AGRI 3012  
COURSE TITLE: AGRICULTURAL BIOTECHNOLOGY  
NUMBER OF CREDITS: 3  
PREREQUISITES: AGRI 1013 AND AGRI 1011  
COURSE DESCRIPTION: This course will cover the application of biotechnology in amelioration of productivity of soils, livestock and poultry, crops and horticulture, and food production/quality.  
ASSESSMENT:  
Coursework  40%  
Final Examination  60%  

LEVEL: III  
SEMESTER: 1  
COURSE CODE: AGRI 3013  
COURSE TITLE: RESEARCH PROJECT  
NUMBER OF CREDITS: 4  
PREREQUISITES: NONE  
COURSE DESCRIPTION: A project designed to provide training in research methodology within a subject area relevant to the student’s degree.  
ASSESSMENT:  
Project Report  80%  
Oral Presentation  20%
LEVEL: III
SEMESTER: 2
COURSE CODE: AGRI 3020
COURSE TITLE: FOOD MICROBIOLOGY
NUMBER OF CREDITS: 3
PREREQUISITE: AGRI 1012 OR EQUIVALENT
COURSE DESCRIPTION: In this course, the history and development of food microbiology, characteristics of predominant microorganisms in food and their significance, extrinsic and intrinsic factors influencing microbial growth in foods, harmful aspects of microorganisms, beneficial applications of microorganisms in fermentation, methods of food preservation and predictive food microbiology. The course also addresses various food safety management systems such as by ISO 22000 and Hazard Analysis and Critical Control Point (HACCP). Teaching methods involve lectures, video presentation, and laboratory practical.

ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: AGSL 2001
COURSE TITLE: SOIL AND WATER MANAGEMENT TECHNOLOGY
NUMBER OF CREDITS: 3
PREREQUISITES: AGSL 1000
COURSE DESCRIPTION: Methods of land clearing and their effects on soil structure; soil tillage and the management of soil structure for plant growth; management of soil structure to improve water intake, transmission and storage; water management for salinity control; soil erosion and the management of hillsides; management of dry and wet lands; management of forest soils; management of specific problem soils: soil management and its effects on microbes, microbial activity and soil fertility; soil fertility management; case studies.

ASSESSMENT:
Coursework 25%
Final Examination 75%

LEVEL: III
SEMESTER: 2
COURSE CODE: AGSL 3001
COURSE TITLE: IRRIGATION AND DRAINAGE TECHNOLOGY
NUMBER OF CREDITS: 3
PREREQUISITES: AGSL 1000
COURSE DESCRIPTION: Soil water potential and measurements; saturated/unsaturated water movement; water movement to roots; evaporation, evapotranspiration and consumptive use. Sources of water; methods of water application; design, installation, operation and evaluation of irrigation systems; pumps and pumping for irrigation and drainage; drainage principles; types of drains; planning, design and installation of drainage systems; legal and administrative aspects of irrigation and drainage.

ASSESSMENT:
Coursework 25%
Final Examination 75%
LEVEL: III
SEMMESTER: 1
COURSE CODE: AGSL 3004
COURSE TITLE: INTEGRATED WATERSHED MANAGEMENT
NUMBER OF CREDITS: 4
PREREQUISITES: AGSL 1000
COURSE DESCRIPTION: The hydrologic cycle; rainfall, runoff/stream flow measurement and analysis; rainfall-runoff models; the watershed and its ecosystem; biogeochemical and nutrient cycles; integrated watershed management principles and planning; soil and water resources conservation practices; watershed degradation and restoration; soil erosion and control; water quality and yield improvement; the role of forestry/agro-forestry; socio-economic, legal and institutional aspects. Case studies and field trips.
ASSSESSMENT:
Coursework 25%
Final Examination 75%

LEVEL: III
SEMMESTER: 2
COURSE CODE: AGSL 3005
COURSE TITLE: WEST INDIAN SOILS
NUMBER OF CREDITS: 3
PREREQUISITES: AGSL 1000
COURSE DESCRIPTION: Influence of soil forming factors on soil formation and development specific to the wider Caribbean region; soil formation and distribution in the various Caribbean ecological zones; soil classification at regional and international levels; land use and management appropriate to the region; soil degradation and rehabilitation; land capability appropriate to the region; soil data base and land use planning appropriate to small islands states; field studies of selected West Indian Soils.
ASSSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: 0 (PRELIMINARY)
SEMMESTER: 1
COURSE CODE: BIOL 0061
COURSE TITLE: PRELIMINARY BIOLOGY I
NUMBER OF CREDITS: 0
PREREQUISITES: CSEC OR EQUIVALENT PASS IN BIOLOGY
COURSE DESCRIPTION: An introduction to Cell and Plant Biology including the ultra -structure of plant and animal cells; comparison between prokaryotic and eukaryotic cells; structure and function of micro- and macro-molecules; enzymes; respiration and photosynthesis. Introduction of the Plant Kingdom, plant anatomy, morphology and physiology to include water relations, ion uptake, mineral nutrition; regulation of growth and development by hormonal and environmental factors.
ASSSESSMENT:
Coursework 50%
    Theory 20%
    Practical 30%
Final Examination 50%
LEVEL: PRELIMINARY
SEMESTER: 2
COURSE CODE: BIOL 0062
COURSE TITLE: PRELIMINARY BIOLOGY II
NUMBER OF CREDITS: 0
PREREQUISITES: CSEC OR EQUIVALENT PASS IN BIOLOGY
COURSE DESCRIPTION: Introduction to the Animal Kingdom; relationships between structure and function of the mammalian body including the gross anatomy and tissue structure of the various organ systems. Basic principles of Mendelian and Molecular genetics including the physical and chemical basis of inheritance; DNA replication, recombinant DNA and DNA fingerprinting. Introduction to Ecology including ecosystems, energy flow and trophic levels, nutrient cycling and environmental issues.
ASSESSMENT:
- Coursework 50%
- Theory 20%
- Practical 30%
- Final Examination 50%

LEVEL: I
SEMESTER: 1
COURSE CODE: BIOL 1065
COURSE TITLE: DIVERSITY OF PLANTS AND ANIMALS
NUMBER OF CREDITS: 4
PREREQUISITES: CSEC/GCE O"LEVEL BIOLOGY AND 2 CAPE/GCE A-LEVEL SUBJECTS ONE OF which MUST BE A SCIENCE; OR PASSES IN BIOL 0061 AND BIOL 0062 OR EQUIVALENT
COURSE DESCRIPTION: An introduction to the diversity of plants and animals. The characteristics, range of structure, reproduction, life cycles and habits of selected plant and animal groups will be covered.
ASSESSMENT:
- Coursework 40%
- Final Examination 60%

LEVEL: I
SEMESTER: 2
COURSE CODE: BIOL 1262
COURSE TITLE: INTRODUCTORY GENETICS
NUMBER OF CREDITS: 3
PREREQUISITES: (CAPE BIOLOGY (UNITS I AND II) OR (BIOL 0061 & BIOL 0062) OR GCE A-LEVEL BIOLOGY
COURSE DESCRIPTION: This course aims to present an introduction to the basic principles of genetics and will equip students with the necessary foundation for advanced level courses in biology and biochemistry.
ASSESSMENT:
- Coursework 50%
- Final Examination 50%

LEVEL: I
SEMESTER: 2
COURSE CODE: BIOL 1362
COURSE TITLE: BIOCHEMISTRY I
NUMBER OF CREDITS: 3
PREREQUISITES: (CAPE BIOLOGY (UNITS I AND II) OR (BIOL 0061 & BIOL 0062) OR GCE A-LEVEL BIOLOGY
COURSE DESCRIPTION: This course provides an introductory treatment of concepts in Biochemistry. In many regards, students will be learning a vast new language as well as new insight into the molecular logic of life - how the structure/form of molecules is related to their diverse functions.
ASSESSMENT:
- Coursework 40%
- Final Examination 60%

LEVEL: I
SEMESTER: 2
COURSE CODE: BIOL 1462
COURSE TITLE: GENERAL ECOLOGY AND BIOMETRY
NUMBER OF CREDITS: 6
PREREQUISITES: CAPE/GCE A-LEVEL PASS IN BIOLOGY OR ENVIRONMENTAL SCIENCE OR PASSES IN BIOL0061 & BIOL0062, OR BIOL 1065 OR EQUIVALENT.
COURSE DESCRIPTION: An introductory treatment of ecology and data analysis. Topics include population ecology, community ecology, ecosystem ecology, geographic ecology, descriptive statistics, inferential statistics, independence and probability, simple linear regression and correlation.
ASSESSMENT:
- Coursework 40%
- Final Examination 60%
LEVEL: II  
SEMESTER: 2  
COURSE CODE: BIOL 2062  
COURSE TITLE: FRESHWATER BIOLOGY  
NUMBER OF CREDITS: 4  
PREREQUISITE: BIOL 1462  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: II  
SEMESTER: 1  
COURSE CODE: BIOL 2263  
COURSE TITLE: GENERAL MICROBIOLOGY  
NUMBER OF CREDITS: 4  
PREREQUISITES: BIOL BIOL 1261 OR AGRI 1012  
COURSE DESCRIPTION: An overview of the biology, taxonomy and phylogeny of the bacteria, fungi and viruses. Bacterial genetic recombination, growth, nutrition as well as carbon and energy metabolism. Molecular-based methods used in analytical and diagnostic microbiology.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: II  
SEMESTER: 1  
COURSE CODE: BIOL 2361  
COURSE TITLE: BIOMOLECULES AND ENERGY METABOLISM  
NUMBER OF CREDITS: 4  
PREREQUISITES: BIOL 1061 OR BIOL 1362  
COURSE DESCRIPTION: pH and Buffers, Protein structure, protein purification techniques, lipids and membranes - structure and function, fluid mosaic model, membrane transport, bioenergetics - thermodynamics; structure, properties and free energies of ATP, ADP and AMP; tricarboxylic acid cycle, electron transport and oxidative phosphorylation; photosynthesis. C3, C4 and CAM metabolism  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: II  
SEMESTER: 2  
COURSE CODE: BIOL 2362  
COURSE TITLE: FURTHER METABOLISM AND GENE EXPRESSION  
NUMBER OF CREDITS: 4  
PREREQUISITES: EITHER BIOL 1061 OR BIOL 1362 AND CHEM 1060 STUDENT MUST HAVE ATTEMPTED BIOL 2363  
COURSE DESCRIPTION: Chemistry of nucleic acids, control and regulation of gene expression; microbiology- structure of microorganisms, their morphology and organisation; sensory systems - biochemistry of vision; olfaction and gustation; introduction to neurotransmission; neurotransmitters.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%
LEVEL: II
SEMESTER: 1
COURSE CODE: BIOL 2363
COURSE TITLE: METABOLISM
NUMBER OF CREDITS: 4
PREREQUISITES: CHEM 1060 AND EITHER BIOL 1061 OR BIOL 1362
COURSE DESCRIPTION: Enzymology - regulation of enzyme activity, modification of expression levels of enzymes, protein-protein interaction; Nitrogen metabolism - sources, uses, storage, transportation and excretion; amino acid metabolism - endogenous and exogenous sources, transamination reaction mechanism, degradation, clinical implications of amino acid dysfunctions; porphyrins - synthesis, degradation and clinical implications of biosynthetic and degradation dysfunctions; lipid metabolism - synthesis, degradation, storage, mobilisation; Biosynthesis of carbohydrates - pentose phosphate pathway; gluconeogenesis - mitochondrial and cytoplasmic regulation, glycogen metabolism - degradation and biosynthesis. Regulation of glycogen metabolism as a case study in control mechanisms; hormones - general characteristics and regulation of hormone action Pathways and control mechanisms for the metabolism of lipids, amino acids and nitrogen. Carbohydrate biosynthesis: integration of metabolism - management and regulation of energy molecules with respect to different metabolic states.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: BIOL 2364
COURSE TITLE: ADVANCED GENERAL BIOCHEMISTRY
NUMBER OF CREDITS: 4
PREREQUISITES: EITHER BIOL 1061 OR BIOL 1362 AND CHEM 1060: STUDENT MUST HAVE ATTEMPTED BIOL 2361 AND BIOL 2363
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 1
COURSE CODE: BIOL 2365
COURSE TITLE: COMPARATIVE BIOCHEMISTRY
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 1061 OR AGRI 1013 OR BIOL 1362 AND EITHER CHEM 1062 OR CAPE /GCE A’LEVEL/ PASS IN CHEMISTRY OR BIOL 0061 & BIOL 0062
COURSE DESCRIPTION: This course builds on the materials covered in the Year 1 Cell Biology/Biochemistry course and prepares the students majoring in Biology to have a deeper appreciation of the content that will be covered in several core courses (e.g. Molecular Biology, Plant Physiology, Animal Physiology, Plant Biotechnology, and Microbiology). It equips students to appreciate modern Biochemistry and its importance for understanding Biology. By imparting knowledge of the processes taking place at the cellular and organelle level in plants, animals and microorganisms it provides the basis for a deeper understanding of key concepts in Biology viz. Unity in Diversity; structure/Function relationships (Bioselectivity); homeostasis (Equilibrium); Energy relations (Bioenergetics); Rate control; Signaling (Inter-and intra-cellular communication). Topics include a more in-depth coverage of the major biomolecules from a comparative perspective with emphasis on their structure/function relationships; enzyme mechanism and control of enzyme activity; selected pathways of carbohydrate, nitrogen and lipid Metabolism; cell signaling and integrated metabolism.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 1
COURSE CODE: BIOL 2461
COURSE TITLE: HUMANS AND THE ENVIRONMENT
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 1462
ASSESSMENT:
Coursework 40%
Final Examination 60%
LEVEL: II
SEMESTER: 1
COURSE CODE: BIOL 2462
COURSE TITLE: CARIBBEAN ISLAND ECOLOGY
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 1462
COURSE DESCRIPTION: This advanced course treats the islands of the Caribbean within a global perspective. Its subject matter is the special nature of island environments and their biotas, and its aim is an understanding of the distributions and ecological relationships of island plants and animals through an analysis of their origins, evolutionary past population biology and community structure. The course is expected to integrate much of the knowledge that advanced undergraduates have amassed.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: BIOL 2761
COURSE TITLE: PLANT PHYSIOLOGY
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 1061 AND EITHER BIOL 1764 OR BIOL 1261 OR (BIOL 1065 AND AGRI 1012)
COURSE DESCRIPTION: An advanced treatment of plant physiology and selected aspects of cellular metabolism. Topics include water relations of cells, tissues and whole plants; germination, seedling development, growth, differentiation and growth analysis; mineral uptake and plant nutrition; photosynthesis, translocation and sink/source relationships; roles and applications of hormones and growth regulators.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: BIOL 2862
COURSE TITLE: ANIMAL PHYSIOLOGY
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 1861 OR BIOL 1261 OR AGLS 1001 OR BIOL 1065 AND AGRI 1012
COURSE DESCRIPTION: Processes and fundamental concepts in gaseous exchange, metabolism, temperature regulation, osmoregulation, haemodynamics of blood circulation and fundamental concepts in sensory, neural and muscle physiology.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: BIOL 3061
COURSE TITLE: MOLECULAR BIOLOGY
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 2864 OR BIOL 2362
COURSE DESCRIPTION: An advanced treatment of gene and genome organisation in eukaryotes and gene regulation in prokaryotes and eukaryotes. Recombinant DNA technology and its application, including vectors, restriction enzymes and restriction mapping, construction of libraries and gene isolation, construction and use of RFLP maps. DNA fingerprinting, analysis and sequencing of genes. PCR and its applications.
ASSESSMENT:
Coursework 40%
Final Examination 60%
LEVEL: III
SEMESTER: 2
COURSE CODE: BIOL 3062
COURSE TITLE: CONSERVATION BIOLOGY
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 1462 OR EQUIVALENT
STUDENTS ARE ALSO ADVISED TO DO BIOL 1061 OR AGRI 1013 OR BIOL 1362
COURSE DESCRIPTION: Principles of conservation biology including types and distribution of biodiversity, loss of biodiversity and its consequences; endangered species; population viability analysis and monitoring. Conservation practices: protected areas, biosphere reserves, restoration ecology; ex situ conservation strategies and genetic engineering; establishing new populations by translocation and reintroduction. Legal and institutional aspects: Land tenure systems and species and habitat protection; national legislation; conservation authorities and organisations; international programmes; international conservation treaties and conventions; conservation education.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 3 (SUMMER)
COURSE CODE: BIOL 3068
COURSE TITLE: FIELD COURSE IN NEOTROPICAL ECOLOGY
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 1462 AND 8 CREDITS OF ADVANCED LEVEL LIFE SCIENCES COURSES, OR PERMISSION OF THE HEAD OF DEPARTMENT
COURSE DESCRIPTION: Introduction to focal group, ecological principles illustrated by focal group, specialised features of focal group, field research projects (aquatic or terrestrial). Students must consult with the course coordinator before registering for this course.
ASSESSMENT:
Field book 50%
Group oral report 10%
Group written report 40%

LEVEL: III
SEMESTER: 2
COURSE CODE: BIOL 3262
COURSE TITLE: MICROBIAL BIOTECHNOLOGY
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 2261 OR BIOL 2263 OR BIOL 2363 AND BIOL 2362 OR AGRI 1012
COURSE DESCRIPTION: Advanced treatment of applications of microbiology including microbial ecology and symbiotic relationships; pathogenesis in plants / animals; principles of immunology; food spoilage and processing; single cell protein production, sewage treatment; microbial leaching and genetic engineering. Other special topics dealt with are photosynthesis - anaplerotic and respiratory systems in bacteria; use of radioisotopes in microbiology; Strictland reactions; amino acid production, industrial - and organic acid fermentation.
ASSESSMENT:
Coursework 40%
Final Examination 60%
LEVEL: III
SEMESTER: 2
COURSE CODE: BIOL 3264
COURSE TITLE: FUNCTIONAL DESIGN IN BIOLOGY
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL1261 OR BIOL1065 AND AGRI 1012 OR BIOL1261
COURSE DESCRIPTION: Size as a consideration in the design of organisms, materials in nature, the arrangement of structure, physics of support, mechanics of motility, viscosity and flow, pressure and flow. Examples are taken from various taxa across kingdoms, as appropriate, to illustrate the topics discussed.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: BIOL 3361
COURSE TITLE: APPLIED BIOCHEMISTRY
NUMBER OF CREDITS: 4
PREREQUISITE: BIOL 2364
COURSE DESCRIPTION: Animal cell culture and virology. Introduction to cell and tissue culture, practical aspects and applications; introduction to virology, effect of viruses on host cells. Immunology: natural and acquired immunity both humoral and cellular; antibody structure and function, B cells - generation of antibody diversity; function of T cells; complement - activation, control and biological effects. HLA - nomenclature, typing and its uses, autoimmunity, AIDS. Animal detoxification - absorption & distribution of xenobiotics, toxic effects, metabolism.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: BIOL 3362
COURSE TITLE: SELECTED TOPICS IN BIOCHEMISTRY
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 2361 AND BIOL 2364
COURSE DESCRIPTION: The areas of study may vary slightly from year to year but will usually include:- Metabolic diseases- obesity and diabetes mellitus. Mechanisms of signal transduction and apoptosis, biochemistry of cancer and therapy. Neurochemistry, and mechanisms of signal transduction.
ASSESSMENT:
Coursework 40%
Final Examination 60%
<table>
<thead>
<tr>
<th>LEVEL: III</th>
<th>LEVEL: II</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER: 1</td>
<td>SEMESTER: 2</td>
</tr>
<tr>
<td>COURSE CODE: BIOL 3463</td>
<td>COURSE CODE: BIOL 3762</td>
</tr>
<tr>
<td>COURSE TITLE: POLLUTION &amp; ENVIRONMENTAL MANAGEMENT</td>
<td>COURSE TITLE: PLANT BIOTECHNOLOGY</td>
</tr>
<tr>
<td>NUMBER OF CREDITS: 4</td>
<td>NUMBER OF CREDITS: 4</td>
</tr>
<tr>
<td>PREREQUISITE: BIOL 2461</td>
<td>PREREQUISITES: BIOL 2162 OR BIOL 2362 &amp; BIOL 2363</td>
</tr>
</tbody>
</table>

**COURSE DESCRIPTION:**

**ASSESSMENT:**
Coursework 40%
Final Examination 60%

<table>
<thead>
<tr>
<th>LEVEL: III</th>
<th>LEVEL: III</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER: 1</td>
<td>SEMESTER: 1</td>
</tr>
<tr>
<td>COURSE CODE: BIOL 3464</td>
<td>COURSE CODE: BIOL 3763</td>
</tr>
<tr>
<td>COURSE TITLE: TROPICAL FOREST ECOLOGY AND MANAGEMENT</td>
<td>COURSE TITLE: CROP IMPROVEMENT (FORMERLY PLANT BREEDING)</td>
</tr>
<tr>
<td>NUMBER OF CREDITS: 4</td>
<td>NUMBER OF CREDITS: 4</td>
</tr>
<tr>
<td>PREREQUISITES: BIOL 1065 OR BIOL 1462</td>
<td>PREREQUISITES: BIOL 2162 OR AGCP 2001</td>
</tr>
</tbody>
</table>

**COURSE DESCRIPTION:**
An advanced treatment of topics in tropical forest ecology and management. Topics include biotic and abiotic factors, biotic interactions including regulation of biodiversity, succession and regeneration and nutrient cycling in tropical forest ecosystems. Disturbances and tropical forest management including the history of forestry in the wet tropics; tropical forest inventory; tropical forestry towards sustainability; plantation forestry in the wet tropics; social dimensions and the future of tropical forest management.

**ASSESSMENT:**
Coursework 40%
Final Examination 60%

<table>
<thead>
<tr>
<th>LEVEL: III</th>
<th>LEVEL: III</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER: 2</td>
<td>SEMESTER: 2</td>
</tr>
<tr>
<td>COURSE CODE: BIOL 3662</td>
<td>COURSE CODE: BIOL 3663</td>
</tr>
<tr>
<td>COURSE TITLE: EVOLUTION AND BIOSYSTEMATICS</td>
<td>COURSE TITLE: EVOLUTION AND BIOSYSTEMATICS</td>
</tr>
<tr>
<td>NUMBER OF CREDITS: 4</td>
<td>NUMBER OF CREDITS: 4</td>
</tr>
<tr>
<td>PREREQUISITES: BIOL 1061 OR AGRI 1011 AND AGRI 1013</td>
<td>PREREQUISITES: BIOL 2162 OR AGCP 2001</td>
</tr>
</tbody>
</table>

**COURSE DESCRIPTION:**
An advanced treatment of population genetics, evolution and methods of biosystematics. Topics include the H-W model; evolutionary forces; neutral theory vs. selectionist theory; macroevolution; co-evolution and biogeography; speciation: the biological species concept, isolating mechanisms; within species variation and micro taxonomy; morphological, chemical and molecular systematics; derivation of cladograms; formulation classifications; biological nomenclature. Case studies.

**ASSESSMENT:**
Coursework 40%
Final Examination 60%
LEVEL: III
SEMESTER: 2 (WILL NOT BE OFFERED IN 2011/2012)
COURSE CODE: BIOL 3764
COURSE TITLE: ECONOMIC BOTANY
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 1261 OR AGRI 1016 OR BIOL 1065 AND AGRI 1012
COURSE DESCRIPTION: Early domestication of plants and associated changes. Large-scale plantation crops - sugarcane, cocoa, coffee, citrus, and coconut. Products from secondary metabolites such as gums, dyes, resins, essential oils and spices, pharmaceuticals, narcotics. Fibres - origin, types, importance and utilisation by man. Timber production in the tropics and non-wood forest products. Under exploited plants. Ornamental horticulture.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: BIOL 3766
COURSE TITLE: PLANT ECOPHYSIOLOGY
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 1462 AND BIOL 2761 OR AGRI 1012 AND AGRI 1016
COURSE DESCRIPTION: This advanced course focuses on the interaction between plants and their environment, exploring the diverse ways that plants adapt to and manipulate their surroundings. Ecophysiology provides a framework for the many applications of plant science in the management of natural and manmade ecosystems. The course includes a large case study component that illustrates the importance of current research in supporting a range of sustainable ecosystems, from rainforest stands to cultivated fields. Students participate in developing their own case studies exploring the role of plant research in meeting the challenge of global climate change.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: BIOL 3767
COURSE TITLE: PLANT PATHOLOGY (THIS COURSE REPLACES BIOL 3765 PLANT PATHOLOGY)
NUMBER OF CREDITS: 4
PREREQUISITES: EITHER BIOL 1261 AND BIOL 1061 OR AGRI 1012; AGRI 1011 AND AGRI 1013
COURSE DESCRIPTION: Biology of plant pathogens; Classification of plant pathogens; their cellular organization, structure; Important pathogens; Pathogen-life cycles, disease cycle; Symptomology; Epidemiology, spread, survival; Host-pathogen interactions, mechanism of infection, physiological and biochemical processes of infection; Host resistance and defense mechanisms; Principles of plant disease/pathogen management; Molecular-based pathogen detection and disease diagnosis.
ASSESSMENT:
Coursework 50%
Final Examination 50%

LEVEL: III
SEMESTER: 1
COURSE CODE: BIOL 3861
COURSE TITLE: ANIMAL BEHAVIOUR
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 2861 OR BIOL 2862
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: BIOL 3863
COURSE TITLE: TROPICAL AQUACULTURE
NUMBER OF CREDITS: 4
PREREQUISITES: BIOL 1861 OR BIOL 1261 OR AGLS 1001
ASSESSMENT:
Coursework 40%
Final Examination 60%
LEVEL: III  
SEMMESTER: 2  
COURSE CODE: BIOL 3864  
COURSE TITLE: FISHERIES BIOLOGY & MANAGEMENT  
NUMBER OF CREDITS: 4  
PREREQUISITES: BIOL 2063  
Practicals include time at sea.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: III  
SEMMESTER: 1 (WILL NOT BE OFFERED IN 2011/2012)  
COURSE CODE: BIOL 3865  
COURSE TITLE: ANIMAL BIOTECHNOLOGY  
NUMBER OF CREDITS: 4  
PREREQUISITES: BIOL 2162 OR BIOL 2362  
COURSE DESCRIPTION: Definition and scope of biotechnology. A survey of important technological revolutions and their application to nutrition, health, genetic conservation and improvement of animals, including an advanced treatment of technologies such as genome projects, cell culture, cloning, science and practice of transgenesis and molecular marker technology and their applications to reproductive biotechnology, marker-assisted breeding, nutritional biotechnology, animal health and conservation of wildlife and breeds.  
The course consists of thirty-six (36) hours of lectures and six (6) three-hour laboratory sessions.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  
To pass the course students must pass both the practical and theory components  

LEVEL: I  
SEMMESTER: 2  
COURSE CODE: CHEM 1061  
COURSE TITLE: INTRODUCTORY CHEMISTRY II  
NUMBER OF CREDITS: 6  
PREREQUISITES: CHEM 0060 & CHEM 0061 OR CAPE CHEMISTRY OR EQUIVALENT.  
Practical: Forty-eight (48) hours of practical work.  
ASSESSMENT:  
Practical Coursework 15%  
Theory Coursework 10%  
Final Examination - 3-hour written paper 75%  

LEVEL: 0  
SEMMESTER: 1  
COURSE CODE: CHEM 0060  
COURSE TITLE: PRELIMINARY CHEMISTRY I  
NUMBER OF CREDITS: 0  
PREREQUISITES: CSEC OR EQUIVALENT PASS IN CHEMISTRY  
Practical: Forty-eight (48) hours of practical work  
ASSESSMENT:  
Practical Coursework 15%  
Theory Coursework 10%  
Final Examination - 3-hour written paper 75%  

LEVEL: I  
SEMMESTER: 1  
COURSE CODE: CHEM 1060  
COURSE TITLE: INTRODUCTORY CHEMISTRY I  
NUMBER OF CREDITS: 6  
PREREQUISITES: CHEM 0060 & CHEM 0061 OR CAPE CHEMISTRY OR EQUIVALENT.  
Practical: Forty-eight (48) hours of practical work.  
ASSESSMENT:  
Practical Coursework 15%  
Theory Coursework 10%  
Final Examination - 3-hour written paper 75%
LEVEL: I
SEMESTER: 1
COURSE CODE: CHEM 1062
COURSE TITLE: BASIC CHEMISTRY FOR LIFE SCIENCES
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: The course is intended to provide students, who have had very little exposure to chemistry and who intend to proceed to degree level in the Life and Health Sciences, with a working knowledge of the basic concepts and principles of Chemistry. Topics of study: atoms, bonding, (ionic and covalent) intermolecular forces, quantifying matter, classes of reactions; properties of ionic and covalent compounds; solution chemistry; acid-base equilibrium; reaction kinetics; thermochemistry; gases; properties and reactions of carbon compounds including alcohols, aldehydes and ketones, carboxylic acids, esters and ethers, amines and amides; amino acids and peptides, natural polymers and stereochemistry.
ASSESSMENT:
Coursework 40%
Final Examination - 2-hour written paper 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: CHEM 2015
COURSE TITLE: SPECTROSCOPY
NUMBER OF CREDITS: 4
PREREQUISITES: CHEM 1060 AND CHEM 1061
Practical: Thirty (30) hours of practical work.
ASSESSMENT:
Practical Coursework 25%
Final Examination - 2-hour written paper 75%

LEVEL: II
SEMESTER: 1
COURSE CODE: CHEM 2160
COURSE TITLE: MAIN GROUP CHEMISTRY
NUMBER OF CREDITS: 4
PREREQUISITES: CHEM 1060 AND CHEM 1061
COURSE DESCRIPTION: Symmetry theory and point groups. Introduction to the chemistry of the elements. Chemistry of the hydrides, oxides and halides; organometallic chemistry of the p-block elements.
Practical: Thirty (30) hours of practical work.
ASSESSMENT:
Practical Coursework 25%
Final Examination - 2-hour written paper 75%

LEVEL: II
SEMESTER: 2
COURSE CODE: CHEM 2260
COURSE TITLE: BASIC ORGANIC CHEMISTRY I
NUMBER OF CREDITS: 4
PREREQUISITES: CHEM 1060
COURSE DESCRIPTION: Aromatic chemistry, carbon-carbon bond formation, principles of organic synthesis, principles of stereochemistry.
Practical: Thirty (30) hours of practical work.
ASSESSMENT:
Practical Coursework 25%
Theory Coursework 10%
Final Examination 2-hour written paper 75%
LEVEL: II
SEMESTER: 1
COURSE CODE: CHEM 2360
COURSE TITLE: BASIC PHYSICAL CHEMISTRY
NUMBER OF CREDITS: 4
PREREQUISITES: CHEM 1061
COURSE DESCRIPTION: Nuclear chemistry. The behaviour of gases, liquids and solids; principles of surface and colloid chemistry; principles of electrochemistry.
Practical: Thirty (30) hours of practical work.
ASSESSMENT:
Practical Coursework 20%
Final Examination-2-hour written paper 80%

LEVEL: II
SEMESTER: 2
COURSE CODE: CHEM 2460
COURSE TITLE: PRINCIPLES OF CHEMICAL ANALYSIS
NUMBER OF CREDITS: 4
PREREQUISITES: CHEM 1060 AND CHEM 1061
COURSE DESCRIPTION: Introduction to qualitative and quantitative analysis; calibration of laboratory equipment; criteria for choice of a method of analysis; good laboratory practices; good measurement practices; methods of quantitation; basic statistics in analytical chemistry; errors in chemical analysis; sampling and sample preparation for chemical analyses; applications of spectroscopic and chromatographic methods of analysis.
Practical: Thirty (30) hours of practical work.
ASSESSMENT:
Practical Coursework 15%
Theory Coursework 10%
Final Examination - 2-hour written paper 75%

LEVEL: III
SEMESTER: 1
COURSE CODE: CHEM 3168
COURSE TITLE: ADVANCED TOPICS IN INORGANIC CHEMISTRY
NUMBER OF CREDITS: 3
PREREQUISITES: CHEM 2160
COURSE DESCRIPTION: The chemistry of the 4d and 5d transition metals including metal cluster formation, homogeneous catalysis, bio-inorganic complexes. Inorganic polymers, oxide superconductors, heterocyclic rings and cages; heavy metals in the biosphere, other special topics in inorganic chemistry.
ASSESSMENT:
Theory Coursework 25%
Final Examination - 2-hour written paper 75%

LEVEL: III
SEMESTER: 2
COURSE CODE: CHEM 3267
COURSE TITLE: BASIC ORGANIC CHEMISTRY II
NUMBER OF CREDITS: 3
PREREQUISITES: CHEM 2260
ASSESSMENT:
Theory Coursework 25%
Final Examination - 2-hour written paper 75%
LEVEL: III
SEMESTER: 2
COURSE CODE: CHEM 3367
COURSE TITLE: THERMODYNAMICS AND STATISTICAL THERMODYNAMICS
NUMBER OF CREDITS: 3
PREREQUISITES: CHEM 2360
ASSESSMENT:
Theory Coursework 20%
Final Examination - 2-hour written paper 80%

LEVEL: III
SEMESTER: 1
COURSE CODE: CHEM 3467
COURSE TITLE: BASIC ANALYTICAL CHEMISTRY
NUMBER OF CREDITS: 6
PREREQUISITES: CHEM 2460
COURSE DESCRIPTION: Troubleshooting; methods of validation of analytical methods; application of statistics in experimental designs, process optimisation and decision-making; spectroscopic methods of analysis; separation techniques; ion-selective electrodes; biochemical methods of analysis.
ASSESSMENT:
Coursework 25%
Final Examination - 3-hour paper 75%

LEVEL: III
SEMESTER: 2
COURSE CODE: CHEM 3468
COURSE TITLE: ADVANCED ANALYTICAL CHEMISTRY
NUMBER OF CREDITS: 6
PREREQUISITES: CHEM 2460
COURSE DESCRIPTION: Aspects of Laboratory management: Quality control and quality assurance; laboratory accreditation; hazardous waste management. Investigative techniques in chemistry; project planning and execution automated methods of analysis; modern spectroscopic methods of analysis; chromatographic and related techniques; radiochemical methods; polarography and related electrochemical methods; formulation science; analytical applications in forensic and clinical science, industry and the environment; the analytical chemist as an entrepreneur.
ASSESSMENT:
Coursework 25%
Final Examination - 3-hour paper 75%

LEVEL: III
SEMESTER: 1
COURSE CODE: CHEM 3560
COURSE TITLE: ENVIRONMENTAL CHEMISTRY
NUMBER OF CREDITS: 4
PREREQUISITES: AT LEAST THREE OF CHEM 2160, CHEM 2260, CHEM 2360 CHEM 2015, CHEM 2025, CHEM 2460
COURSE DESCRIPTION: Introduction to the structure of the environment; the physicochemical characteristics and processes of natural waters: equilibrium, redox, and microbiological reactions; function and processes in the atmosphere: major element cycles, ozone, climate change, acid rain, smog; characteristics of, and processes in soils; sources, effects and control of selected water, air and soil pollutants; introduction to environmental analytical chemistry.
ASSESSMENT:
Coursework 40%
Final Examination - 2-hour written paper 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: CHEM 3561
COURSE TITLE: INTRODUCTION TO POLYMER CHEMISTRY
NUMBER OF CREDITS: 4
PREREQUISITES: CHEM 2260, AND AT LEAST TWO (2) OF CHEM 2160, CHEM 2360, CHEM 2015, OR CHEM 2025
COURSE DESCRIPTION: Macromolecules, molecular weights, characterisation, step polymerisation, chain reaction polymerisation, co-polymerisation; polymer morphology, testing and characterisation; flow properties and elasticity; solubility, thermodynamics; polymer technology.
ASSESSMENT:
Coursework 25%
Final Examination - 2-hour written paper 75%

LEVEL: III
SEMESTER: 2
COURSE CODE: CHEM 3562
COURSE TITLE: CORROSION SCIENCE
NUMBER OF CREDITS: 4
PREREQUISITES: CHEM 2360
COURSE DESCRIPTION: Basic types of corrosion; basic electrochemical processes and concepts taking place in corrosion; corrosive characteristics of commonly encountered environments; basic concepts of metals relating to corrosion; various corrosion phenomena and methods of corrosion control.
ASSESSMENT:
Coursework 25%
Final Examination - 2-hour written paper 75%
LEVEL: III  
SEMESTER: 2  
COURSE CODE: CHEM 3569  
COURSE TITLE: INDUSTRIAL CHEMISTRY I  
NUMBER OF CREDITS: 4  
PREREQUISITES: AT LEAST THREE OF CHEM 2160, CHEM 2260, CHEM 2360, CHEM 2015  
Coursework will consist of reports on site visits and a project.  
ASSESSMENT:  
Coursework 40%  
Final Examination - 2-hour written paper 60%  

LEVEL: III  
SEMESTER: 1 AND 2  
COURSE CODE: CHEM 3660  
COURSE TITLE: RESEARCH PROJECT  
NUMBER OF CREDITS: 4  
PREREQUISITES: AT LEAST THREE OF CHEM 2160; CHEM 2260; CHEM 2360; CHEM 2015  
COURSE DESCRIPTION: The project will be compulsory for all chemistry majors and will consist of 96 hours of practical work and the related requirements e.g. library work, lectures/seminars, meetings with supervisor(s), training on instruments etc. The student will be assigned a research problem carefully selected, bearing in mind the available time and resources, and will work under the supervision of a member of academic staff. The student will be required to do a literature review including an outline of the problem and the approach and methodology to be utilised. The student will plan and carry out experiments under supervision. On completion of the practical work, the student will be required to write up the project according to a specified format and submit the report by a given deadline for assessment. An oral presentation of ten minutes duration will also be required of the student at a public session to be held before the start of the semester final examinations.  
ASSESSMENT:  
Written Report 60%  
Supervisor’s Assessment 20%  
Oral Presentation 20%  

LEVEL: I  
SEMESTERS: 1 AND 2  
COURSE CODE: COMP 1011  
COURSE TITLE: INTRODUCTION TO INFORMATION TECHNOLOGY  
NUMBER OF CREDITS: 3  
PREREQUISITE: NONE  
COURSE DESCRIPTION: This course will provide the knowledge needed to formulate a sound but basic understanding of Information Technology, its major components and its broad applications. Students will acquire hands-on experience with computers. They will become familiar with the components of a computer and learn about the various elements that make up an information system. The course deals with hardware, software, telecommunications and computer networks.  
General Topics: The Technology Revolution; Inside the Computer; Information Input and Output; Storing and Retrieving Information; Software; Networks and Networking; Internet and The Web.  
Practical Topics: Microsoft Package - Word, Excel, Access, PowerPoint and Front Page.  
ASSESSMENT:  
Practical Coursework 50%  
Project Report 25%  
Mid-term examination 25%  
(NO FINAL WRITTEN EXAMINATION)  

LEVEL: I  
SEMESTER: 1 AND 2  
COURSE CODE: COMP 1100  
COURSE TITLE: COMPUTER PROGRAMMING I  
NUMBER OF CREDITS: 6  
PREREQUISITES: TWO UNITS OF CAPE MATHEMATICS OR ITS EQUIVALENT  
ASSESSMENT:  
Coursework 40%  
Final Examination - One 2-hour written paper 60%
LEVEL: I
SEMESTERS: 1, AND 2
COURSE CODE: COMP 1200
COURSE TITLE: COMPUTER PROGRAMMING II
NUMBER OF CREDITS: 6
PREREQUISITES: COMP 1100
COURSE DESCRIPTION:
• Data records. How to group related data in a program. Declare and use records using structures/objects. User-defined types. • Dynamic storage allocation. Link lists. Add an item to a linked list at the head, the tail or in its sorted position. Delete an item from a linked list. Merge two linked lists. Stacks. Implement stacks using arrays and linked lists. Queues. Implement queues using arrays and linked lists. Solve problems using these data structures, e.g. convert an expression from infix to postfix.
• Recursion. Write recursive functions. Solve problems using recursion.
• Random numbers. Simple game-playing using random numbers. Estimation of numerical values. Simple simulation of real-life situations, e.g. queues.
• Files. Distinguish between text files and binary files. Read/write text files and binary files. Create and work with random access and indexed files.
• Application of the above principles to solving a wide variety of problems.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: I
SEMESTER: 2
COURSE CODE: COMP 1350
COURSE TITLE: MATHEMATICS FOR COMPUTER SCIENCE II
NUMBER OF CREDITS: 6
PREREQUISITE: COMP 1300
COURSE DESCRIPTION:
Vector Spaces: Linear Dependence; Groups; Numerical Computing Gaussian Elimination; Sequence and Convergence; Series and convergence; Differentiation and Integration; Mean Value Theorem, Partial Derivatives, Taylor's Formula; Integration; Riemann Integral; Integration by Parts
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: II
SEMESTERS: 1 AND 2
COURSE CODE: COMP 2000
COURSE TITLE: DATA STRUCTURES
NUMBER OF CREDITS: 4
PREREQUISITES: COMP 1100 AND COMP 1200
COURSE DESCRIPTION:
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%
LEVEL: II
SEMESTER: 2
COURSE CODE: COMP 2100 COURSE TITLE: DISCRETE MATHEMATICS FOR COMPUTER SCIENCE
NUMBER OF CREDITS: 4
PREREQUISITE: MATH 1140 OR COMP 1300
COURSE DESCRIPTION: Propositional logic: connectives, truth tables, tautology, contradiction, logical equivalences, predicate logic, quantifiers and valid arguments. Nature of proof: direct and indirect proofs, proof by contradiction, counterexamples, existence and constructive proofs, mathematical induction. Sets: set theoretic proofs, functions, cardinality, relations. Combinatorics: counting arguments (addition and multiplication principles), permutations and combinations, combinatorial arguments, pigeonhole principle. Probability: probability space, independent and dependent events, random variables and expected values, the binomial theorem and Bayes theorem. Recurrence relations: homogeneous and non-homogeneous linear recurrence relations with constant coefficients. Application of the above content to relevant areas of Computer Science

ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: II
SEMESTERS: 1 AND 2
COURSE CODE: COMP 2200 COURSE TITLE: COMPUTER ARCHITECTURE
NUMBER OF CREDITS: 4
PREREQUISITES: COMP 1100 AND COMP 1200
COURSE DESCRIPTION: Computer functions; Memory caching, Internal Memory; Input/output devices and operation; Computer arithmetic; Instruction sets; Reduced instruction set computers; Control unit operation; Micro programmed control.

ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: II
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: COMP 2400 COURSE TITLE: INFORMATION SYSTEMS
NUMBER OF CREDITS: 4
PREREQUISITES: COMP 1100 AND COMP 1200

ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%
LEVEL: II
SEMESTER: 1
COURSE CODE: COMP 2500
COURSE TITLE: OBJECT-ORIENTED PROGRAMMING
NUMBER OF CREDITS: 4
PREREQUISITES: COMP1100 AND COMP1200
COURSE DESCRIPTION:
- Classes and Methods: Encapsulation, Varieties of Classes, Interface and Implementation, Classes and Methods in Java, Class Variables and Class Methods
- Instances, Initialization and Messages: Instance Creation and Initialization, Message-Passing Syntax
- Inheritance and Composition: Subclass, Subtype, and Substitutability, Replacement and Refinement, Assignment, Equality, and Type Conversion, Polymorphism
- Introduction to Object-Oriented Software Development: Analysis, Design, Programming
- Object-Oriented Software Architectures: Model-View Controller, 3-Tier Architecture
- Object-Oriented Design
- Introduction to Developing User Interfaces using Swing
- Introduction to Object-Oriented Frameworks
- Introduction to the Java Collections Framework: LinkedList, ArrayList, HashSet, TreeSet, HashMap, TreeMap, Comparators, Generics, Choosing the Right Collection to Use
- Object Persistence: Object-oriented database, Relational database, Object serialization

ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: II
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: COMP 2600
COURSE TITLE: THEORY OF COMPUTING I
NUMBER OF CREDITS: 4
PREREQUISITE: MATH1140 OR COMP1300
COURSE DESCRIPTION:
- Strings and Languages and Induction. Finite Automata and Regular Languages. Context-free Languages.
- Computability; Turing machine

ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: COMP 3100
COURSE TITLE: OPERATING SYSTEMS
NUMBER OF CREDITS: 4
PREREQUISITE: COMP 2200
COURSE DESCRIPTION:
- Systems programming language. Von Neumann computer architecture.
- Process Management: Context switching, scheduling algorithms.
- Deadlock modelling, detection, avoidance, prevention.
- Memory Management; Virtual Memory Management.
- File Systems; Device controllers
- Disk Performance Optimization
- Input/Output.
- Resource Protection

ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%
LEVEL: III
SEMESTER: 1
COURSE CODE: COMP 3150
COURSE TITLE: COMPUTER NETWORKS
NUMBER OF CREDITS: 4
PREREQUISITE: COMP 2500
COURSE DESCRIPTION:
- Computer Networks and the Internet: The Internet. Network edge and core. Network access and physical media. Protocol layers and their Service models. This chapter provides a good introduction to networking.
- The Application Layer. Principles of application layer protocols FTP, Email, SMTP, DNS etc. Socket programming with TCP and UDP.
- Introduction to Network Design. The network design and implementation process. Stages: Feasibility Study, preparing network design plan, understanding current network, defining new network requirements, identifying geographic scope, calculating circuit requirements, identifying security and control measures, designing network configurations, determining network costs, network Implementation.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: COMP 3220
COURSE TITLE: HUMAN-COMPUTER INTERACTION
NUMBER OF CREDITS: 4
PREREQUISITE: COMP 1200
ASSESSMENT:
Coursework 60%
Final Examination - One 2-hour written paper 40%

LEVEL: III
SEMESTER: 2
COURSE CODE: COMP 3275
COURSE TITLE: WIRELESS & MOBILE COMPUTING
NUMBER OF CREDITS: 4
PREREQUISITES: COMP 3150
COURSE DESCRIPTION: Introduction to the ISO and other network architectures. History and Evolution of wireless standards. Special problems of wireless and mobile computing; Wireless Local loops; Mobile Internet Protocol, Mobile client/server networks; Mobile data access; Software support for mobile and wireless computing (includes MIDP programming, SMS and Bluetooth based applications); Application aware and application transparent adaptation; The role of middleware; Performance Issues; Emerging Technologies.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%
LEVEL: III
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: COMP 3300
COURSE TITLE: PROGRAMMING LANGUAGES I
NUMBER OF CREDITS: 4
PREREQUISITE: COMP 2000
COURSE DESCRIPTION: This course will focus on two programming paradigms: imperative and logic. For the imperative paradigm, the programming language C (or any other language representative of this paradigm) will be used. For the logic programming paradigm, the programming language Prolog (or any other language representative of this paradigm) will be used.
The Imperative Programming Paradigm: Basic types. Expressions and statements. Functions/procedures and programme structure.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: COMP 3400
COURSE TITLE: ARTIFICIAL INTELLIGENCE
NUMBER OF CREDITS: 4
PREREQUISITE: COMP 2000
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: COMP 3500
COURSE TITLE: INTERNET TECHNOLOGIES I
NUMBER OF CREDITS: 4
PREREQUISITE: COMP 2500
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: COMP 3550
COURSE TITLE: INTERNET TECHNOLOGIES II
NUMBER OF CREDITS: 4
PREREQUISITE: COMP 2500 OR COMP 3500
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%
LEVEL: III
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: COMP 3600
COURSE TITLE: THEORY OF COMPUTING II
NUMBER OF CREDITS: 4
PREREQUISITE: COMP 2100
COURSE DESCRIPTION: Turing machines. Computing with
Turing machines. Extensions of Turing machines. nondeterministic
Turing machines. Grammars. Undecidability. The Church-Turing
enumerable languages. Chomsky hierarchy.
Computational complexity: Classes P and NP. NP-
completeness. Special topics, e.g. Methods of tackling NP-
hard problems.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: COMP 3700
COURSE TITLE: DATABASE MANAGEMENT SYSTEMS II
NUMBER OF CREDITS: 4
PREREQUISITE: COMP 2700
COURSE DESCRIPTION:
• Transaction management .
• Database administration
• Distributed database
• Databases and XML
• Database modeling with UML.
• Data warehousing
• Database Development Life Cycle
• Database connectivity
• Query Management
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: COMP 3750
COURSE TITLE: NUMERICAL COMPUTING
NUMBER OF CREDITS: 4
PREREQUISITES: COMP 2100
COURSE DESCRIPTION: Introduction to MATLAB. Review
of Calculus, Binary Numbers, Error Analysis. Solution of
Non-linear Equations. Solution of Linear Systems.
Interpolation and Polynomial Approximation. Numerical
Differentiation and Integration.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: COMP 3800
COURSE TITLE: CRYPTOGRAPHY AND SECURITY
NUMBER OF CREDITS: 4
PREREQUISITE: COMP 2100
COURSE DESCRIPTION: Classical Cryptography. Shift
cipher. Substitution cipher. Permutation cipher. Other
ciphers. Cryptanalysis applicable to these encodings.
Cryptosystems. Data Encryption Standard. Block ciphers
and the Advanced Encryption Standard. Cryptographic hash
functions. Internet Security.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: COMP 3850
COURSE TITLE: INTELLIGENT SYSTEMS
NUMBER OF CREDITS: 4
PREREQUISITE: COMP 2000
COURSE DESCRIPTION:
• Characteristics of intelligent systems.
• Rule-based Expert Systems; production rules.
• Reasoning with uncertainty.
• Fuzzy logic.
• Frame-based expert systems.
• Artificial Neural Networks.
• Genetic algorithms. Knowledge Engineering and Data
Mining.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: COMP 3900
COURSE TITLE: SPECIAL TOPICS IN COMPUTER
SCIENCE NUMBER OF CREDITS: 4
PREREQUISITES: COMP 1100 AND COMP 1200 AND
TWO RELEVANT ADVANCED COURSES
COURSE DESCRIPTION: Graphics. Computer Assisted
Computability and complexity. Proof of correctness of
programs. Image Processing. Any other approved topics.
The particular topic taught may change from year to year.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%
LEVEL: III
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: COMP 3950
COURSE TITLE: MODELLING AND SIMULATION
NUMBER OF CREDITS: 4
PREREQUISITE: COMP 2100
COURSE DESCRIPTION:
- Discrete and Continuous Systems.
- Discrete-Event System Simulation; Dynamic Allocation and Linked Lists.
- Queuing Models; Steady-State Behavior of Infinite-Population Markovian Models.
- Single-Server Queues with Poisson Arrivals and Unlimited Capacity.
- Analysis of Simulation Data; Goodness-of-Fit Tests, Chi-Square Test.
- Non-stationary Poisson Process.
- Output Analysis for Terminating Simulations.
- Error Estimation for Steady-State Simulation.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: COMP 3990
COURSE TITLE: PROJECT
NUMBER OF CREDITS: 4
PREREQUISITES: COMP2500 AND COMP3250
COURSE DESCRIPTION:
- Assessing project feasibility;
- Methods of investigation;
- Project reporting and presentation;
- Project management.
Select and implement an appropriate project on some topic in Computer Science. This may include design and implementation of a computer application.
ASSESSMENT:
Project report 80%
Oral presentation 20%
(No final written examination)

LEVEL: I
SEMESTER: 1
COURSE CODE: ECON 1001
COURSE TITLE: INTRODUCTION TO ECONOMICS I
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
DEPARTMENT RESPONSIBLE: ECONOMICS
COURSE DESCRIPTION: This course provides students to the history of economic thought highlighting some of the key economic issues, which have preoccupied the discipline from its origins. The course also provides an introduction to the basic principles of micro-economic analysis together with the main perspectives on the functioning of the macro-economy. The micro-economic analysis is illustrated by reference to a key export sector in the Caribbean (e.g. oil or bananas). The implications of trends in the latter for the Balance of Payments and macro economy conclude this first semester course.

LEVEL: I
SEMESTER: 2
COURSE CODE: ECON 1002
COURSE TITLE: INTRODUCTION TO ECONOMICS II
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
CO-REQUISITE: ECON 1001
DEPARTMENT RESPONSIBLE: ECONOMICS
COURSE DESCRIPTION: This course emphasises macro-economic theory and policy and the related national income accounting together with international trade and the balance of payments. There is a significant stress on the implications of these economic issues for the Caribbean reality.

LEVEL: I
SEMESTER: 1
COURSE CODE: ECON 1005
COURSE TITLE: INTRODUCTION TO STATISTICS
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
DEPARTMENT RESPONSIBLE: ECONOMICS
COURSE DESCRIPTION: Descriptive Statistics; Probability and Probability distributions, Sampling distributions, Estimation, Hypothesis testing, simple correlation and regression.

LEVEL: I
SEMESTERS: 1 & 2
COURSE CODE: FOUN 1101
COURSE TITLE: CARIBBEAN CIVILISATION
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
DEPARTMENT RESPONSIBLE: ECONOMICS
COURSE DESCRIPTION: (NOT FOR HUMANITIES STUDENTS)
Objectives:
1. To develop an awareness of the main process of cultural development in Caribbean societies, highlighting the factors, the problematics and the creative output that have fed the emergence of Caribbean identities.
2. To develop a perception of the Caribbean as wider than island nations or linguistic blocs.
3. To stimulate students’ interest in, and commitment to Caribbean civilisation and to further their self-definition.
Modules:
1. Origins
   I Caribbean space / physical environment / Amerindian peoples and Cultures: their legacy.
   II European conquest, settlement and demographic changes.
2. Fighting for Freedom
   I Slavery, marronage and rebellion.
   II New in/out- migration, indenture, and their consequences: 19th and 20th centuries.
3. Quest for Identity
   I Race and nationalism.
   II Independence, dependence and regionalism.
   III Creolisation and ethnic identity.
4. Ideas, Ideologies and Theologies
I Education/religion in the Caribbean.
II Caribbean Intellectual Traditions.

5. Caribbean Expressions
   I Caribbean music - Calypso, Reggae.
   II Caribbean festivals.
   III Sports.
   IV Caribbean voices - French, English, Spanish

Linguistic Identity.

Evaluation:
In-course test  40%
Final 2-hour examination 60%

LEVEL: I
SEMESTER: 2
COURSE CODE: FOUN 1102
COURSE TITLE: ACADEMIC WRITING FOR DIFFERENT DISCIPLINES (OPTION C)
NUMBER OF CREDITS: 3

PREREQUISITES:
Any one of the following:
• CSEC English Language Grade I (General Proficiency) Grade I or II in CAPE Communication Studies
• General Paper Grade A or B
• A Pass in the English Language Proficiency Test
• A Pass in English as a Foreign Language (Intermediate)

COURSE DESCRIPTION: The aim of this course is to develop students writing skills in areas related to their academic disciplines. There will be twenty-four (24) contact hours. Classroom activity will be supplemented by printed materials.

Option C
Scientific and Technical Writing (Compulsory for FSA Students)
Technical Description
Expository Writing for Scientific and Technical Purposes

Evaluation:
Coursework  50%
Final Examination  50%

Students must pass both coursework and final examination in order to qualify for an overall pass in the course.

* Highly recommended for students in the Faculty of Science & Agriculture.

Attendance Regulation:
A student in any of the Foundation courses in English Language who misses two (2) out of any six (6) class hours will be warned, and after two warnings any further absence without prior permission or an acceptable medical certificate will result in automatic exclusion from the examination.

FOUN 1210 Not offered to FSA Students.
LEVEL: I
SEMESTER: 2
COURSE CODE: GEOG 1901
COURSE TITLE: HUMAN GEOGRAPHY
NUMBER OF CREDITS: 6
PREREQUISITES: CAPE GEOGRAPHY OR EQUIVALENT
COURSE DESCRIPTION: General human-environment interactions, with a Caribbean-focus: Culture-Environment Issues; demography, population distributions, growth, relocation and transition, population controls; cultural geography, change and diversity; spatial behaviour; migration, perceptions to hazards; political, geopolitical assessments, international political systems; locational issues; economic activity and economies, natural resource use, urban economic bases, world urban diversity, regional issues, Earth Science and Locational Traditions
ASSESSMENT:
Coursework 40%
Examination 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: GEOG 2000
COURSE DESCRIPTION: GEOGRAPHIC INFORMATION SYSTEMS
NUMBER OF CREDITS: 4
PREREQUISITES: GEOG 1900 & GEOG 1901
COURSE DESCRIPTION: Concept of information systems and geographic information systems, hardware and software systems, spatial data issues - data acquisition and input, data structures, management, processing, manipulation and analysis, metadata and data quality issues, spatial database design, GIS implementation issues - technical, data, institutional and policy issues.
ASSESSMENT:
Coursework 50%
Examination 50%

LEVELS: II & III
SEMESTER: 1
COURSE CODE: GEOG 2002
COURSE TITLE: EARTH SURFACE PROCESSES
NUMBER OF CREDITS: 4
PREREQUISITES: GEOG 1900 & GEOG 1901
COURSE DESCRIPTION: The principles of exogenic processes and sediment erosion, transport and deposition. Weathering Processes; Physical, Chemical and Biological, Hill Slope Processes, Mass Movement and Mass Wasting, Hydrological processes and river systems. Flood impacts and mitigation. Aeolian and coastal processes. Geomorphology and time
ASSESSMENT:
Coursework 40%
Examination 60%

LEVEL: II
SEMESTER: I
COURSE CODE: GEOG 2006
COURSE TITLE: AGRICULTURAL GEOGRAPHY
NUMBER OF CREDITS: 4
PREREQUISITES: GEOG 1900 & GEOG 1901
COURSE DESCRIPTION: The nature of agricultural geography, the distribution of domestic plants and animals and the origins of agriculture and livestock development The history of subsistence and commercial agricultural systems. The Green Revolution. Factors of production; environmental influences, concepts of distance, risks and uncertainties in decision making. The role of the state - food production and food security. The role of agribusiness. Third World agricultural development issues and strategies. Case studies.
ASSESSMENT:
Coursework 40%
Examination 60%
LEVEL: II
SEMESTER: 2
COURSE CODE: GEOG 2007
COURSE TITLE: URBAN GEOGRAPHY
NUMBER OF CREDITS: 4
PREREQUISITES: GEOG 1900 & GEOG 1901
COURSE DESCRIPTION: This course introduces students to the key concepts, theories and empirical studies in the field of urban geography. Attention is paid to the patterns and processes of regional and global urbanisation, the internal and commercial structure of cities, as well as some of the economic, social and environmental consequences of the rapid pace of urbanisation. This course also explores the cultural and political dimensions of everyday life in urban areas, looking at consumer culture, social exclusion and suburban lifestyles. In addition, contemporary issues such as urban governance will be examined.
ASSESSMENT:
Coursework 40%
Examination 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: GEOG 3000
COURSE TITLE: RESEARCH PROJECT
NO. OF CREDITS: 4
PREREQUISITES: GEOG 1900 & GEOG 1901
COURSE DESCRIPTION: Independent research on a Caribbean territory or phenomena with a human or physical focus. Students will be judged on their interpretative, analytical and objective geographical capabilities, coupled with research techniques acquired. This research will be conducted over 2 semesters and will be presented at the end of the academic year.
ASSESSMENT:
Interim Assessment 40%
Final Report 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: GEOG 3001
COURSE TITLE: CARIBBEAN GEOGRAPHY
NUMBER OF CREDITS: 4
PREREQUISITES: GEOG 1900 & GEOG 1901
COURSE DESCRIPTION: Cultural, historical and social processes indigenous to the Caribbean region. The structure and functioning of these processes in the core, periphery and semi-periphery of selected countries will be analysed. Themes surrounding the geographies of crime, gender, history of the Caribbean region are also explored. Agriculture in the Caribbean versus regional social change and industrialisation. Environmental, cultural and historical impacts of tourism and mitigation approaches.
ASSESSMENT:
Coursework 40%
Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: GEOG 3003
COURSE TITLE: METEOROLOGY & CLIMATOLOGY
NO. OF CREDITS: 4
PREREQUISITES: GEOG 1900 & GEOG 1901
COURSE DESCRIPTION: The physical elements of weather and climate: climate and the atmosphere; meteorological and climatological observations; radiation and global climate; atmospheric dynamics, motion and circulation; state of the atmosphere and climate; cloud and precipitation; weather disturbances; tropical weather systems, hurricanes. Climate classification; climates of the Caribbean; Climate variation of the tropics. Changes in the climate system and Global warming, anthropogenic and natural forcing, climate change and soils.
ASSESSMENT:
Coursework 40%
Examination 60%
LEVEL: III
SEMESTER: 1
COURSE CODE: GEOG 3005
COURSE TITLE: QUANTITATIVE METHODS IN GEOGRAPHY
NO. OF CREDITS: 4
PREREQUISITES: GEOG 1900 & GEOG 1901
COURSE DESCRIPTION: Research Design; theory and hypothesis testing, Descriptive statistics; Chi-square, measures of central tendency and dispersion; Comparative Statistics Kolmogorov-Smirnov Test, Analysis of Relationships; Spearman’s Rank correlation Pearson Product Moment, Analysis of Trends; Simple linear regression, Spatial analysis, Nearest Neighbour Analysis
ASSESSMENT:
Coursework 50%
Examination 50%

LEVEL: III
SEMESTER: 2
COURSE CODE: GEOG 3006
COURSE TITLE: GLOBAL ENVIRONMENTAL CHANGE
NO. OF CREDITS: 4
PREREQUISITES: GEOG 1900 & GEOG 1901
COURSE DESCRIPTION: The Quaternary era, changes to terrestrial, atmospheric and oceanic systems, proxy evidence in palaeoenvironmental reconstruction, geochronological methods and applications, major geomorphological systems and landforms (coasts, lakes, dunes, caves) as proxy evidence, the Holocene and human expansion, histories of major geomorphic environments (rain forest, deserts), the implications of Quaternary change for the future.
ASSESSMENT:
Coursework 40%
Examination 60%

LEVEL: II
SEMESTER: 1
COURSE CODE: HORT 2001
COURSE TITLE: PEOPLE-PLANTS RELATIONSHIPS
NUMBER OF CREDITS: 3 CREDITS
PREREQUISITES: NONE
Course ASSESSMENT:
Coursework (60%) – Research paper – 15% (due Wk. 5); Field study - 15%; (due Wk. 9); Project (group) - 30% (due Wk. 13);
Final Examination - 40%

LEVEL: II
SEMESTER: 1
COURSE CODE: HORT 2002
COURSE TITLE: TROPICAL LANDSCAPE PLANT IDENTIFICATION
NUMBER OF CREDITS: 3 CREDITS
PREREQUISITES: AGRI 1016 PLANT ANATOMY AND PHYSIOLOGY
COURSE DESCRIPTION: Principles of plant nomenclature with special emphasis on landscape plants – the importance and purpose of plant classification. Introductory plant taxonomy. Morphological and anatomical characteristics in classification. The process of field collection to plant identification. Introduction to Caribbean flora – native and introduced species including naturalized and invasive species; legislation governing trade in exotic species; potential as landscape plants – form, environmental requirements, special characteristics and uses e.g. specimen and border plants.. Plant selection for specific environments.
Course ASSESSMENT:
Coursework – 100% of course marks. (Quizzes – 15% (Wk 4, 6, 10); field trips and plant identification – 35% (due Wk 5, 7, 11); project and portfolio – 50% (due Wk. 12);
LEVEL: III
SEMESTER: 1
COURSE CODE: HORT 3001
COURSE TITLE: AMENITY AND SPORTS TURFGRASS MANAGEMENT
NUMBER OF CREDITS: 3 CREDITS
PREREQUISITES: AGRI 1016; AGSL 1000; VART 2040 AND LDSP 1000
COURSE DESCRIPTION: Definition of turfgrass. Tropical turfgrasses – identification, botany, growth, environmental requirements. Uses of turfgrasses in landscaping – environmental, engineering, architectural and aesthetic functions. Quality characteristics. Best management practices for turfgrass propagation, and establishment and maintenance in private and public spaces including reside
ASSESSMENT:
Coursework 60%
Final Exam 40%

LEVEL: III
SEMESTER: 2
COURSE CODE: HORT 3002
COURSE TITLE: LANDSCAPE HORTICULTURE
NUMBER OF CREDITS: 3 CREDITS
PREREQUISITES: AGRI 1016; AGSL 1000; HORT 2002 AND LDSP 1000
COURSE DESCRIPTION: Site analysis. Sustainable landscaping with plants - environmental. Engineering, architectural, aesthetic functions. Selection criteria. Best practices for establishing herbaceous and woody landscape plants – nursery stock specifications, quality criteria, handling; land preparation for flat and sloping sites – land formation, water control, tillage, soil amendment; spacing and lining; hole preparation and planting; staking; training; post-planting care. Best practices for maintenance of plants in the landscape - water, nutrition, pest, disease and weed management; pruning – formation, height control; pre- and post-hurricane management. Reading and interpreting landscape plans and specifications; proposals for installation and maintenance; maintenance schedules.
ASSESSMENT:
Coursework 60%
Final Exam 40%

LEVEL: I
SEMESTER: 2
COURSE CODE: HUEC 1001
COURSE TITLE: FOOD SCIENCE
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Structure and functional properties are examined with respect to the molecular behaviour of the basic components common to food products. Also discussed is the chemistry of changes occurring during processes, distribution and utilisation. Other topics include principles of Food Preservation by chilling, freezing, irradiation, dehydration, fermentation and thermal processing; food regulations and inspection systems and the relationships between packaging materials, food processing operations and product quality.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: I
SEMESTER: 1
COURSE CODE: HUEC 1003
COURSE TITLE: INTRODUCTION TO NUTRITION
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: I
SEMESTER: 2
COURSE CODE: HUEC 1004
COURSE TITLE: INTRODUCTION TO FOODS AND MEAL MANAGEMENT
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Principles involved in preparation of food of standard quality. Influence of composition and techniques on properties of food products. Standard methods of food preparation with emphasis on quality, nutrient retention and safety. At least one field trip is scheduled for this course.
ASSESSMENT:
Coursework - Practical & Theory 40%
Final Examination 60%
LEVEL: I  
SEMESTER: 2  
COURSE CODE: HUEC 1005  
COURSE TITLE: INTRODUCTION TO BIOSTATISTICS  
NUMBER OF CREDITS: 3  
PREREQUISITES: AGRI 1003  
COURSE DESCRIPTION: This course covers the principal statistical concepts used in biostatistics. Basic concepts common to all statistical analyses are reviewed, and those concepts with specific importance in biostatistics are covered in detail. The course introduces students to concepts and application of biostatistics methods including descriptive statistics, exploratory data analysis, probability distributions, sampling distributions, estimation and hypothesis testing. Students will develop skills that will enable them to compare means of two groups, proportions of two groups and means and proportions of more than two groups. The course concludes with risk measurement, analysis of variance and Simple Linear Regression. Readings and assignments would complement lectures to assist students in developing basic biostatistics competencies.  
ASSESSMENT:  
Final Examination 60%  
Coursework 40%  

LEVEL: I  
SEMESTER: 1  
COURSE CODE: HUEC 1006  
COURSE TITLE: BASIC APPAREL CONSTRUCTION  
NUMBER OF CREDITS: 3  
PREREQUISITES: NONE  
COURSE DESCRIPTION: This course introduces students to the major aspects of apparel production including pattern making methods, and use of the sewing machine. Course includes apparel production terminology and garment construction techniques. Covers data manipulation, drafting a skirt block and creating a complete pattern.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: I  
SEMESTER: 1  
COURSE CODE: HUEC 1007  
COURSE TITLE: INTRODUCTION TO TEXTILES  
NUMBER OF CREDITS: 3  
PREREQUISITES:  
COURSE DESCRIPTION: Introduction to the structure and properties of textiles. Consumer use and fabric characteristics are emphasised.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: II  
SEMESTER: 1  
COURSE CODE: HUEC 2000  
COURSE TITLE: BIOCHEMISTRY  
NUMBER OF CREDITS: 3  
PREREQUISITES: CHEM 1062 OR EQUIVALENT AND AGRI 1013  
COURSE DESCRIPTION: Chemistry of biological compounds: Carbohydrates, lipids, amino and proteins, nucleic acids etc., pH and buffers, metabolism of energy yielding compounds (bioenergetics); internal and hormonal regulation of metabolic pathways; molecular genetics and implications for the future of clinical nutrition practice.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: II  
SEMESTER: 1  
COURSE CODE: HUEC 2001  
COURSE TITLE: BASIC HUMAN ANATOMY AND PHYSIOLOGY  
NUMBER OF CREDITS: 3  
PREREQUISITES: AGRI 1013  
COURSE DESCRIPTION: The integration of the sciences of human anatomy, physiology and pathology. Functional anatomy with emphasis on basic principles and physiological activities of the different systems of the human body in health and disease.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%  

LEVEL: II  
SEMESTER: 2  
COURSE CODE: HUEC 2002  
COURSE TITLE: NUTRITION THROUGHOUT THE LIFE CYCLE  
NUMBER OF CREDITS: 3  
PREREQUISITES: HUEC 1003  
COURSE DESCRIPTION: Nutritional requirements for growth and development throughout the life cycle. Analysis of nutrition assessment indicators for each age group. Special consideration to growth standards, maternal weight gain, pregnancy and lactation requirements, eating behaviour of various age and other groups. The physiology of aging as it relates to nutrient adequacy in the mature adult.  
ASSESSMENT:  
Coursework 40%  
Final Examination 60%
LEVEL: II
SEMESTER: 2
COURSE CODE: HUEC 2003
COURSE TITLE: FOODSERVICE SYSTEMS MANAGEMENT (ORGANISATION, MANAGEMENT AND OPERATIONS)
NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 1004
COURSE DESCRIPTION: The application of Principles of Management to foodservice operations and human resources. Technical and operational aspects in the design of foodservices; including menu planning and evaluation, purchasing, receiving and storage of food and supplies, financial control, inventory control, food delivery and service, sanitation and safety, quality assurance and continuous quality improvement.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 1
COURSE CODE: HUEC 2004
COURSE TITLE: FOODSERVICE SYSTEMS MANAGEMENT (EQUIPMENT, LAYOUT AND DESIGN)
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Introduction to architectural drawings, symbols and design features; reading and interpreting blue-prints; analysis of layout characteristics; principles of workflow and work simplification; sanitation requirements in layout and design; materials used in construction of facilities and equipment in relation to use and care; environmental elements. Determining equipment requirements and writing specifications; equipment purchasing procedures; utilities and services in relation to selection of equipment; energy control; principles of refrigeration and cooling; operation, use and care of equipment. Approximately three (3) field trips are scheduled for this course.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 1
COURSE CODE: HUEC 2008
COURSE TITLE: PSYCHOLOGICAL ASPECTS OF APPAREL
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: A study of the theory and research findings pertaining to the social and psychological aspects and appearance in relation to the self, interpersonal, group and societal behaviour.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: HUEC 2009
COURSE TITLE: FAMILY RESOURCE MANAGEMENT
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: HUEC 2011
COURSE TITLE: PHYSIOLOGY IN HEALTH AND DISEASE
NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 2001
COURSE DESCRIPTION: This course provides a thorough grounding on the physiological responses and adaptations of the human body in disease states and stressful activity including sports and exercise. Emphasis is given to the interdependence of response mechanisms.
ASSESSMENT:
In-course 40%
Final Examinations 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: HUEC 2012
COURSE TITLE: NUTRITION ASSESSMENT FOR SPORTS
NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 1003, HUEC 2001
COURSE DESCRIPTION: Athletes and other physically active persons pose a challenge nutritionally because of the physical demands required to enhance their performance. Nutritionally needs vary according to the intensity, duration and the nature of the physical activity. This course provides the fundamentals for assessing the nutritional needs of physically active person and athletes. Topics include, meal planning for peak performance, development and testing of nutritional assessment and sport and activity questionnaires, computerised dietary analysis, anthropometric methods, techniques in sports nutrition counseling.
ASSESSMENT:
In-course 40%
Final Examinations 60%
LEVEL: II
SEMESTER: 2
COURSE CODE: HUEC 2013
COURSE TITLE: PRINCIPLES OF DIETETICS
NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 1003
COURSE DESCRIPTION: This course provides the fundamental material necessary for understanding concepts taught in Medical Nutrition Therapy I and II. Topics include the history, ethics, practice and terminology for professionals in Nutrition and Dietetics, Nutrition Assessment and Documentation, Nutrient-Drug Interaction, alternative and complementary therapies, and nutrition support in the management of the nutrition care process.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: HUEC 3000
COURSE TITLE: FLAT PATTERN DEVELOPMENT
NUMBER OF CREDITS: 3
PREREQUISITE: NONE
COURSE DESCRIPTION: This course introduces basic industrial techniques of pattern making. The principles and procedures governing the development and use of basic slopers, and the use of manual flat pattern methods to develop patterns by varying a master pattern form given or self designed sketches are covered. Emphasis is on the design process culminating in the designing of original apparel by the flat pattern method.
ASSESSMENT:
Mid-term Examination 15%
Practicals 25%
Final Examination 60%

LEVEL: II
SEMESTER: 1
COURSE CODE: HUEC 2014
COURSE TITLE: NUTRITION AND METABOLISM
NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 1003 & AGRI 1013
COURSE DESCRIPTION: The integration and contribution of related scientific disciplines to the study of nutrition. The physiological aspects of nutrition: digestion, absorption, transport and exchange in normal and specialised cells; utilisation of the essential nutrients emphasising regulatory mechanisms at cellular and organ levels; nutrient interrelationships.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 1
COURSE CODE: HUEC 2015
COURSE TITLE: FOOD QUALITY AND SAFETY
NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 1001 AND AGRI 1012
COURSE DESCRIPTION: This course involves a study of food quality components, the factors affecting food quality, food quality and safety management systems, development of food quality assurance strategies, principles of statistical quality and process control, an overview of food safety, risks and benefits, naturally occurring food toxicants, bacteriological problems in foods, moulds and mycotoxins, food additives, pesticides and incidental contaminants.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: HUEC 3001
COURSE TITLE: COMMUNITY NUTRITION
NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 2002 AND HUEC 2014
COURSE DESCRIPTION: Functions and effectiveness of various community-based nutrition related resources, services and programmes along with government policy and systems that influence them; sociocultural factors affecting nutritional status; evaluation of nutrition education programmes; health promotion; assessment of nutritional status through the identification of major nutrition problems at the local, national and international levels; nutrition surveillance; food and nutrition policy and planning; research.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: HUEC 3002 (AH33A)
COURSE TITLE: FOODSERVICE SYSTEMS MANAGEMENT
NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 1004
COURSE DESCRIPTION: Standards and methods of quantity food production and management; Experiences and case studies in planning for production, recipe standardisation, use of quantity foodservice equipment, nutrient and quality preservation, portion control, merchandising and service, cost calculations, energy management; quality control.
ASSESSMENT:
Coursework 40%
Final Examination 60%
LEVEL: III  
SEMESTER: 1  
COURSE CODE: HUEC 3004  
COURSE TITLE: FOOD PRODUCT DEVELOPMENT  
NUMBER OF CREDITS: 3  
PREREQUISITES: HUEC 1001  
COURSE DESCRIPTION: Application of food science principles and experimental procedures to problems in foods. Practical investigations, experimental techniques leading to experience in developing a product; organising taste panels for sensory evaluation and acceptance of product; market testing; market research; patents; packaging, labelling; marketing; advertising.  
ASSESSMENT:  
Coursework  40%  
Final Examination  60%

LEVEL: III  
SEMESTER: 1  
COURSE CODE: HUEC 3005  
COURSE TITLE: MEDICAL NUTRITION THERAPY I  
NUMBER OF CREDITS: 3  
PREREQUISITES: HUEC 2011, HUEC 2013 AND HUEC 2014  
COURSE DESCRIPTION: Medical Nutrition Therapy I focus on the physiological and biochemical anomalies of disease and the adaptation of the diet in the treatment or prevention of disease; application of the principles and concepts of nutrition therapy to meet nutrient, medical, social and psychological needs of patients. It develops the knowledge base needed to assess, plan, implement, and evaluate the nutrition care process. Topics include nutritional management in disease of the Oral cavity, Digestive system, Upper and Lower Gastrointestinal tract, Liver, Biliary system and Exocrine pancreas, Energy balance and weight control, Endocrine system and Metabolic disorders, Cardio-vascular and Pulmonary disease.  
ASSESSMENT:  
Coursework  40%  
Final Examination  60%

LEVEL: III  
SEMESTER: 2  
COURSE CODE: HUEC 3006  
COURSE TITLE: MEDICAL NUTRITION THERAPY II  
NUMBER OF CREDITS: 3  
CO-REQUISITE: HUEC 3005  
COURSE DESCRIPTION: Medical Nutrition Therapy II is a continuation of Medical Nutrition Therapy I, which involves the study of the physiological and biochemical anomalies of disease and the adaptation of the diet in the treatment or prevention of disease: application of the principles and concepts of nutrition therapy to meet nutrient, medical, social and psychological needs of patients. It develops the knowledge base needed to assess, plan, implement, and evaluate the nutrition care process. Topics include the nutritional management of physiological stress and hypermetabolic conditions e.g. Illness, Infection, Surgery / Trauma and Burns, Cancer and HIV/AIDS, Renal disease, Anemia, Low birth weight infant, Nervous system, Food allergy and Food Intolerances.  
ASSESSMENT:  
Coursework  40%  
Final Examination  60%

LEVEL: III  
SEMESTER: 2  
COURSE CODE: HUEC 3007  
COURSE TITLE: LAW AND THE FAMILY  
NUMBER OF CREDITS: 3  
PREREQUISITES: NONE  
COURSE DESCRIPTION: Family law, consumer laws and the rights of the consumers with respect to the variety of goods and services offered in the society, such as health, clothing, shelter and the use of leisure without infringing the rights of others. Laws applicable to the processing, packaging, labelling and distribution of food, food safety and nutritive value. Laws of major food regulatory agencies.  
ASSESSMENT:  
Coursework  40%  
Final Examination  60%
LEVEL: III
SEMMER:
COURSE CODE: HUEC 3008
COURSE TITLE: CHILD DEVELOPMENT
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Focus on the physical/motor, intellectual, social and psychological personality aspects of the development of children throughout the life cycle; Stages of infancy; childhood, pre-adolescence and adolescence, and the influences of family, school and society. Topics include theories of brain development, general development trends, physical development at pre-adolescence, the growth spurt, sexual maturation, Piaget’s theory of cognitive development, Erickson’s stage theory of personality development, Kohlberg’s theory and implications for education; Self-concept development.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER:
COURSE CODE: HUEC 3009
COURSE TITLE: EQUIPMENT PRINCIPLES
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Utilisation of water, electricity and gas for doing work and maintaining health, safety and comfort in the home environment. Selection and use of appliances as related to consumer needs, interests and resources.
ASSESSMENT:
Final Examination 100%

LEVEL: III
SEMESTER: 2
COURSE CODE: HUEC 3010
COURSE TITLE: HOUSING AND THE ENVIRONMENT
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: Physical, cultural, economic, social and personal factors pertinent to the provision and performance of housing. Functionality of residential interiors with respect to ergonomics, lighting, comfort and health. Water and sanitation; safety; siting, land use and planning concerns; transportation.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: HUEC 3011
COURSE TITLE: ADVANCED TEXTILES
NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 1007
SYLLABUS:
COURSE DESCRIPTION: Recent advances in the production and performance of fibres, yarns, finishes and dyes for textile products. Laboratory experiences designed to provide a familiarity with the standards, methods and equipment for evaluating textile product performance.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: HUEC 3012
COURSE TITLE: PROJECT
NUMBER OF CREDITS: 4
PREREQUISITE: NONE
COURSE DESCRIPTION: A project within a subject area relevant to the student's degree option.
ASSESSMENT:
Project Report 80%
Oral Presentation 20%
* See Project Booklet for detailed guidelines
NOTE: Students will be examined at the end of the semester in which they are registered

LEVEL: III
SEMESTER: 2
COURSE CODE: HUEC 3013
COURSE TITLE: ADVANCED APPAREL DESIGN AND CONSTRUCTION
NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 1006
COURSE DESCRIPTION: Principles of advanced techniques for apparel construction with emphasis on new, difficult to handle fabrics.
ASSESSMENT:
LEVEL: III
SEMESTER: 1
COURSE CODE: HUEC 3014
COURSE TITLE: NUTRITION IN SPORTS AND FITNESS
NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 1003 AND HUEC 2001
COURSE DESCRIPTION: This course will provide a basic grounding in human nutrition as it relates to sport and physical activity. Topic will include; brief history of nutrition and exercise, philosophy of sports nutrition, overview of the physiology and biochemistry of exercise, carbohydrate, lipid and protein metabolism during exercise, water and electrolyte balance during exercise, determination of body composition and energy expenditure in athletes, nutrition and exercise in weight control, designing and analysis of diets for training, during competition and post competition.
ASSESSMENT:
In-Course examination 20%
Practicals 20%
Final Examination 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: HUEC 3015
COURSE TITLE: NUTRITION AND HEALTH IN SPORTS
PERFORMANCE NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 1003 AND HUEC 2001
COURSE DESCRIPTION: This course follows on from NUTRITION AND FITNESS I and provides the platform for an evidence-base perspective of the role of nutrition in sports and physical activity. Topics will include introduction to research methods in nutrition and sports, how to read and critique a piece of published work on sports nutrition, evaluation of dietary analysis and physical performance software, antioxidants in sports and fitness, minerals in sports and fitness, nutritional issues for active persons with special needs, ergogenic aids and physical performance, nutritional problems of athletes, nutritional counseling of athletes and physically active persons.
ASSESSMENT:
In-course Examinations 20%
Practicals 20%
Final Examinations (2-hours) 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: HUEC 3016
COURSE TITLE: NUTRITION IN HEALTH AND DISEASE
NUMBER OF CREDITS: 4
PREREQUISITES: HUEC 1003 AND HUEC 2001
COURSE DESCRIPTION: With the exponential increases in the number of studies linking nutrition to the prevention and treatment of disease there is an urgent need for an evidence based approach to understanding reliability and validity of research findings. This course provides a foundation for understanding the role of nutrition in health and disease states. Topic include evaluating nutrition research, diet and human development, nutrition and diseases of the intestinal tract, nutrition and cardiovascular diseases, nutrition and diabetes, obesity, nutrition and cancer, nutrition and bone development, nutrition and immunity.
ASSESSMENT:
In-course 40%
Final Examinations 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: HUEC 3017
COURSE TITLE: COMPUTER AIDED PATTERN DEVELOPMENT
NUMBER OF CREDITS: 3
PREREQUISITES: HUEC 1006, HUEC 1007 AND HUEC 2008
COURSE DESCRIPTION: This course builds on the introductory course in Flat Pattern Development. It incorporates and addresses the integral value of computer technology within the fashion system with modules focusing on textile developments and digital pattern design in fashion. Students would be required to develop advanced patterns for garments by draping fabric and using a computer-aided design system.
ASSESSMENT:
Coursework 40%
Final Examination 60%
LEVEL: III  
SEMESTER: 1  
COURSE CODE: HUEC 3018  
COURSE TITLE: FASHION INDUSTRY AND BUSINESS  
NUMBER OF CREDITS: 3  
PREREQUISITES: HUEC 1006 HUEC 1007 AND HUEC 2008  
COURSE DESCRIPTION: This course presents an overview of the global fashion industry. It looks at structure, size and scope and the range of entrepreneurial activities/opportunities and careers. From this introduction the local/regional industry is studied from the viewpoint of the entrepreneur. Trends in the fashion industry are considered in term of preferences by age groups and demographics; trends in business growth areas are also considered. Entry requirements and strategies for the local/regional industry are considered for emerging entrepreneurs. The course includes lectures/seminars by various consultants in the fashion and fabric industries.  
ASSESSMENT:  
Coursework (Project) 40%  
Examination 60%  

LEVEL: III  
SEMESTER: 1  
COURSE CODE: HUEC 3019  
COURSE TITLE: COMPUTER AIDED DESIGN FOR THE FASHION INDUSTRY  
NUMBER OF CREDITS: 3  
PREREQUISITES: HUEC 1006 HUEC 1007 AND HUEC 2008  
COURSE DESCRIPTION: This course covers the use of computers in the innovative design of clothing and other products for the fashion industry. It involves the creation and development of original designs applicable to the Caribbean fashion industry, using flat pattern and/or draping techniques. Students will be introduced to a number of computer software used in the fashion industry and shown the application of product data management in the industry. Students will also be introduced to the preparation of a professional portfolio comprising cad and other illustrative materials reflecting individual capability.  
ASSESSMENT:  
Coursework 75%  
Final Examination 25%  

LEVEL: III  
SEMESTER: 2  
COURSE CODE: HUEC 3020  
COURSE TITLE: DEVELOPMENT OF CARIBBEAN CUISINE  
NUMBER OF CREDITS: 3  
PREREQUISITE: HUEC 1003  
COURSE DESCRIPTION: The development of unique Caribbean cuisine based on indigenous products presents significant opportunities for entrepreneurial growth and development in the Food Industry and Food Service sector. This course focuses on the application of food science principles and food safety systems such as food laws and regulations.  
ASSESSMENT:  
Coursework 40%  
Examination 60%  

LEVEL: III  
SEMESTER: 4  
COURSE CODE: HUEC 3021  
COURSE TITLE: PRACTICUM (CONSUMER SCIENCES)  
NUMBER OF CREDITS: 3  
PREREQUISITE: (RESTRICTED TO STUDENTS REGISTERED FOR BSC. HUMAN ECOLOGY)  
COURSE DESCRIPTION: This course provides an experiential learning approach to investigating from a scientific purview important issue as related to consumer science and behaviours. It involves placement for up to ten weeks at a relevant institution.  
ASSESSMENT:  
Coursework 100%  

LEVEL: III  
SEMESTER: 4  
COURSE CODE: HUEC 3022  
COURSE TITLE: PRACTICUM (NUTRITIONAL SCIENCES)  
NUMBER OF CREDITS: 3  
PREREQUISITE: (RESTRICTED TO STUDENTS REGISTERED FOR THE MAJOR IN NUTRITION SCIENCES HUMAN)  
COURSE DESCRIPTION: This course provides an experiential learning approach to investigating from a scientific purview important issue as related to the Discipline on Nutrition. It involves placement for up to ten weeks at a relevant institution.  
ASSESSMENT:  
Coursework 100%  

LEVEL: III  
SEMESTER: 4  
COURSE CODE: HUEC 3023  
COURSE TITLE: PRACTICUM (FOODS AND FOODSERVICE)  
NUMBER OF CREDITS: 3  
PREREQUISITE: (RESTRICTED TO STUDENTS REGISTERED FOR THE BSC. HUMAN ECOLOGY AND THE MAJOR IN FOOD AND FOODSERVICE SYSTEMS)  
COURSE DESCRIPTION: This course provides an experiential learning approach to investigating from a scientific purview important issue as related to Food and foodservice systems. It involves placement for up to ten weeks at a relevant institution.  
ASSESSMENT:  
Coursework 100%
<table>
<thead>
<tr>
<th>Level: Diploma</th>
<th>Semester: 1</th>
<th>Course Code: HUEC 5000</th>
<th>Course Title: Advanced Foodservice Systems Management</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Number of Credits: 4</td>
<td>PREREQUISITES: Restricted to Students Registered for Diploma in Institutional and Community Dietetics and Nutrition</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>COURSE DESCRIPTION: A comprehensive review of the organisational management and operational aspects of food service including menu-planning and evaluation; procurement, receiving, storage of food and supplies; human resource needs, quantity food production with regard to recipe standardisation, nutrient and quality preservation, portion and quality control, costs, sanitation and safety; equipment requirements and specifications, layout and design; quality assurance and continuous improvement in Foodservice.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ASSESSMENT: Final Examination 100%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level: Diploma</th>
<th>Semester: 1</th>
<th>Course Code: HUEC 5010</th>
<th>Course Title: Foodservice Systems Management Practicum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Number of Credits: 8</td>
<td>PREREQUISITE: Restricted to Students Registered for Diploma in Institutional and Community Dietetics and Nutrition</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>COURSE DESCRIPTION: Supervised practice in all aspects of foodservice operation and subsystem at institutions and at the community level; coordination of foodservice subsystems, including menu planning and evaluation, policies and procedures, organisation of available resources and quality assurance; design and layout of physical facilities; utilisation of problem-solving and decision making skills under the supervision of a qualified Dietitian. Application of knowledge and skills, integrating clinical nutrition into the management of foodservice, nutrition goals and nutrition education. Management of human, material, operating and facility resources including procurement, pre-processing, production, food distribution and service; maintenance of equipment and supplied; sanitation and safety.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ASSESSMENT: Assignments 100%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level: Diploma</th>
<th>Semester: 2</th>
<th>Course Code: HUEC 5020</th>
<th>Course Title: Advanced Clinical Nutrition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Number of Credits: 4</td>
<td>PREREQUISITE: Restricted to Students Registered for Diploma in Institutional and Community Dietetics and Nutrition</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>COURSE DESCRIPTION: A comprehensive review of the principles of nutritional care process as it relates to specified diseases and needs; the role of drugs in nutritional care, disease of the upper and lower gastrointestinal tract, endocrine and metabolic disorders, energy balance, hepatic and biliary system, disorders of the skin and skeletal system; physiological stress and hyper metabolic conditions; neoplastic diseases, AIDS; cardiovascular, nervous and respiratory systems; nutritional support and counselling techniques.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ASSESSMENT: Final Examination 100%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level: Diploma</th>
<th>Semester: 2</th>
<th>Course Code: HUEC 5030</th>
<th>Course Title: Clinical Nutrition Practicum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Number of Credits: 8</td>
<td>PREREQUISITE: Restricted to Students Registered for Diploma in Institutional and Community Dietetics and Nutrition</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>COURSE DESCRIPTION: Application of knowledge and skills in the collection, assessment, planning, implementation and evaluation of nutritional care of clients with specified diseases and needs; principles of nutritional care in a clinical setting; nutrient modifications in respect of diagnosis, treatment, prevention of complications in various diseases and disorders. Candidates will be assigned to various primary clinical facilities for clinical experience, participating in Paediatrics, Endocrinology, Cancer/Aids/Gerontology, Nephrology, Surgical/Trauma, and Psychiatry/Substance Abuse rotations under the supervision of a qualified Dietitian.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ASSESSMENT: Clinical Appraisal/Case Reviews 40%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Educational Projects 30%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Clinical Update/Research 30%</td>
</tr>
</tbody>
</table>
LEVEL: DIPLOMA
SEMESTER: 4
COURSE CODE: HUEC 5040
COURSE TITLE: ADVANCED COMMUNITY NUTRITION
NUMBER OF CREDITS: 4
PREREQUISITE: RESTRICTED TO STUDENTS REGISTERED FOR DIPLOMA IN INSTITUTIONAL AND COMMUNITY DIETETICS AND NUTRITION
COURSE DESCRIPTION: Providing nutrition services in primary care; promoting and protecting the health of women, infants and children; promoting the health of adults, older adults; safeguarding the food supply; maintaining nutrition and food service standards in group care; planning and evaluating community nutrition services. Computer-aided Food and Nutrition applications; hands-on learning experience with computer software in food and nutrition surveillance, health analysis, diet/exercise analysis, growth and development in childhood and pregnancy, menu-planning, and food and nutrition planning. Project development: the process of developing a project (proposal) is outlined with clearly defined objectives, implementation strategy, costing, time analysis, and evaluation. Individual practice is gained in developing a nutrition-related project, using one of the models presented, for a seminar presentation at the end of the programme.
ASSESSMENT:
Final Examination 100%

LEVEL: I
SEMESTERS: 1 AND EVENING UNIVERSITY – SEMESTER: 1
COURSE CODE: INFO 1400
COURSE TITLE: INFORMATION TECHNOLOGY FUNDAMENTALS
NUMBER OF CREDITS: 6
PREREQUISITE: NONE
Organizational issues: business process redesign, project management.
IT and its related and informing disciplines: computer science, software engineering, information systems, cognitive science, computer engineering, mathematics and statistics, other (e.g. linguistics, sociology, etc.)
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: I
SEMESTERS: 1 AND EVENING UNIVERSITY – SEMESTER: 1
COURSE CODE: INFO 1405
COURSE TITLE: PROGRAMMING FOR THE WWW
NUMBER OF CREDITS: 6
PREREQUISITE: NONE
COURSE DESCRIPTION: HTTP Protocol. Presentation abstractions. Web-mark-up and display languages. Cascading style sheets. Introduction to a scripting language: user input, arithmetic, equality and relational logical and operators, control statements, functions, arrays, objects. Dynamic HTML.
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%
LEVEL: I
SEMMESTERS: 1 AND EVENING UNIVERSITY - SEMESTER: 3
COURSE CODE: INFO 1410
COURSE TITLE: INFORMATION PROCESSING SYSTEMS
NUMBER OF CREDITS: 6
PREREQUISITE: NONE
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: I
SEMMESTERS: 2 AND EVENING UNIVERSITY – SEMESTER: 2
COURSE CODE: INFO 1415
COURSE TITLE: MATHEMATICS FOR CRITICAL THINKING
NUMBER OF CREDITS: 6
PREREQUISITE: NONE
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: I
SEMMESTERS: 2 AND EVENING UNIVERSITY – SEMESTER: 3
COURSE CODE: INFO 1420
COURSE TITLE: PROGRAMMING FUNDAMENTALS I
NUMBER OF CREDITS: 6
PREREQUISITE: NONE
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%
LEVEL: I
SEMESTER: 2 AND EVENING UNIVERSITY - SEMESTER 3
COURSE CODE: INFO 1425
COURSE TITLE: INTRODUCTION TO COMPUTER SCIENCE
NUMBER OF CREDITS: 6
PREREQUISITE: NONE
COURSE DESCRIPTION:
Machine Architecture: Data storage: bits, main memory, mass storage; representation of data as bit patterns. Binary system: Storage of integers and fractions; data compression. Data manipulation: the CPU, the stored-programme concept, programming execution, ALU instructions, communication with other devices, other architectures.

Software: Operating system and networks: OS architecture, coordinating the machines activities, handling competing processes, networks and network protocols, security.


Data Organization – Data structures: arrays, lists, stacks, queues.

File structures: sequential files, indexing. Database structures: the relational model, database management system.

ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: II
SEMESTERS: 2 AND EVENING UNIVERSITY - SEMESTER 2
COURSE CODE: INFO 2400
COURSE TITLE: INFORMATION SYSTEMS DEVELOPMENT
NUMBER OF CREDITS: 4
PREREQUISITE: INFO 1400
COURSE DESCRIPTION:
• Technical Foundations of Information Systems: Hardware, Software, Data/Information, Procedures, People, Telecommunications and Networks, the Internet, Electronic Commerce.

ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: II
SEMESTERS: 2 AND EVENING UNIVERSITY - SEMESTER 2 AND 3
COURSE CODE: INFO 2405
COURSE TITLE: DISCRETE MATHEMATICS
NUMBER OF CREDITS: 4
PREREQUISITES: INFO 1415
COURSE DESCRIPTION:
• Number Systems Integer and real number systems.
• Graphs: Introduction to Graph Theory, paths and cycles.
• Trees: Terminology and characterization of trees, spanning trees.
• Recursion: Solving recurrence relations.
• Formal Propositional and Predicate Logic.
• Languages, Grammars and Automata Sequential circuits and finite-state automata.

ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%
LEVEL: II
SEMESTERS: 2 AND EVENING UNIVERSITY - SEMESTER 2
COURSE CODE: INFO 2410
COURSE TITLE: FUNDAMENTAL DATA STRUCTURES
NUMBER OF CREDITS: 4
PREREQUISITE: INFO 2420
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: II
SEMESTERS: 1 AND EVENING UNIVERSITY - SEMESTERS 1 AND 3
COURSE CODE: INFO 2415
COURSE TITLE: ENTERPRISE DATABASE SYSTEMS
NUMBER OF CREDITS: 4
PREREQUISITE: INFO 1400 AND INFO 1405
COURSE DESCRIPTION: Introduction to Database Systems:
• Database/File-based systems; DBMS Functions, Components of a Relational Database System, Introduction to Database Design.
• The Relational Data Model-Relational Data Objects, Data Integrity, and Relational Operators.
• Structured Query Language: Data Definition Commands, Data Manipulation Commands, Views, Privileges and Roles Triggers and Stored Procedures.
• Database Design: ER Modelling, Functional Dependency and Normalization.
• Database and the Internet: Web Technology and Databases, ODBC/JDBC, XML and Databases.
• Distributed Databases: Distributed Database Design, Fragmentation and Replication.
• Database Administration: Managerial Functions, Technical Functions.
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: II
SEMESTERS: 1 AND EVENING UNIVERSITY - SEMESTER 1
COURSE CODE: INFO 2420
COURSE TITLE: PROGRAMMING FUNDAMENTALS II
NUMBER OF CREDITS: 4
PREREQUISITE: INFO 1420
COURSE DESCRIPTION:
• Data records: How to group related data in a program. Declare and use structures (records). User-defined types. Structures as arguments to functions. Pointers to structures.
• Dynamic storage allocation: Implement stacks, queues and linear lists using linked lists and array storage. Manipulate linked lists e.g. add, delete, search, and merge. Solve problems using these data structures. e.g. convert an expression from infix to postfix.
• Recursion: Write recursive functions. Solve problems using recursion.
• Solve simple numerical problems on a computer, e.g. solution of equations, numerical integration.
• Random numbers Simple game-playing using random numbers. Estimation of numerical values. Simple simulation of real-life situations, e.g. queues.
• Files: Distinguish between text. files and binary files. Read/write text . files and binary files. Create and work with random access files.
• Two-dimensional arrays.
• Application of the above principles to solving a wide variety of problems.
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: II
SEMESTERS: 1 AND EVENING UNIVERSITY - SEMESTERS 1 AND 3
COURSE CODE: INFO 2425
COURSE TITLE: COMPUTER ARCHITECTURE
NUMBER OF CREDITS: 4
PREREQUISITE: INFO 1415 AND INFO 1420
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%
LEVEL: II
SEMMESTERS: 1 AND
EVENING UNIVERSITY - SEMESTER: 3
COURSE CODE: INFO 2430
COURSE TITLE: BUSINESS INFORMATION SYSTEMS
NUMBER OF CREDITS: 4
PREREQUISITE: INFO 1400 AND INFO 1405
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTERS: 1 AND
EVENING UNIVERSITY - SEMESTER: 1
COURSE CODE: INFO 3400
COURSE TITLE: FUNDAMENTALS OF OPERATING SYSTEMS
NUMBER OF CREDITS: 4
PREREQUISITE: INFO 2425
COURSE DESCRIPTION:
• System Tools: Basic systems programming, process creation, input/output re-direction, process overlaying, manipulating semaphores, basic shell scripting, OS administration.
• Hardware Review: Review of Von Neumann computer architecture.
• Deadlocks: Definitions and methods of dealing with deadlocks.
• Memory Management: Multiprogramming, relocation and protection, swapping, virtual memory.
• Virtual Memory Management: Pages, page frames, page tables, address translation, memory management units (MMU), page faults, page replacement algorithms.
• File Systems: Contiguous allocation, linked-list allocation, index-nodes, implementing directories.
• Input/Output: Device controllers, direct memory access, interrupt handlers, device drivers.
• Resource Protection: Protection domains, access matrices, access lists, capabilities lists, lock-key mechanisms.
• Foundations of Networking: Introductory topics eg. Nodes, routers, transmission media, etc. Introduction to ISO/OSI and Internet reference models. Rationale for layered architectures. Layer functionality.
• Routing and Switching: Router and switch functions and usage. Configuration of routers and switches for enterprise networks.
• Network Operating Systems: Windows networking features. Linux networking features. Configuring settings for main network related applications/systems e.g. setting up subnet masks and IP addresses; setting up DNS and DHCP servers.
• Network Management: Performance, configuration, accounting, fault and security management. Practical examples.
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTERS: 2 AND
EVENING UNIVERSITY - SEMESTERS: 2 AND 3
COURSE CODE: INFO 3410
COURSE TITLE: WEB SYSTEMS AND TECHNOLOGIES
NUMBER OF CREDITS: 4
PREREQUISITE: INFO 2420
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%
LEVEL: III
SEMESTERS: I AND EVENING UNIVERSITY-SEMESTER 1
COURSE CODE: INFO 3415
COURSE TITLE: INFORMATION ASSURANCE AND SECURITY
NUMBER OF CREDITS: 4
PREREQUISITE: INFO 2400 OR COMP2200
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: INFO 3420
COURSE TITLE: PROGRAMMING LANGUAGES
NUMBER OF CREDITS: 4
PREREQUISITE: INFO 2420 OR COMP2500
COURSE DESCRIPTION: Introduction: concepts and paradigms, syntax and semantics. Procedural Languages: values, types and references; variables and storage; bindings and scope; statements and control; procedural abstraction: functions, parameters and arguments. Object-Oriented Programming: data abstraction, objects, classes; encapsulation, inheritance, polymorphism; packages. Logic Languages (Prolog): declarative languages; syntax and logic; data structures; negation; the cut; assert and retract; efficiency and left recursion; comparison of prolog and procedural languages. Functional Programming (standard ML): syntax and functions; integers, reals, Booleans, strings; execution, functions; let statement; lists, constructors; polymorphism and overloading; user defined types, polymorphic types and constructors.
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: EVENING UNIVERSITY - SEMESTER 3
COURSE CODE: INFO 3425
COURSE TITLE: PROFESSIONAL ETHICS AND LAW
NUMBER OF CREDITS: 4
PREREQUISITE: INFO 2400
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%
LEVEL: III
SEMESTERS: 1 AND EVENING UNIVERSITY - SEMESTER: 3
COURSE CODE: INFO 3440
COURSE TITLE: SOFTWARE ENGINEERING
NUMBER OF CREDITS: 4
PREREQUISITES: INFO 2400 AND INFO 2420
COURSE DESCRIPTION:
• Requirements Analysis: Determining System Requirements, Use Cases, System Operation Contracts, Process Modelling, Data Modelling.
• Blending Analysis and Design: Object-Oriented Analysis and Design, Rapid Application Development.
• Implementation.
• Verification and Validation: Aspects of Quality and their Importance, Quality Assurance Techniques, Testing Methods, Concepts of Formal Verification, Software Testing Management Unit Testing and JUnit.
• Software Project Management: Project Planning, Software Estimation, Risk Management.
• Software Tools and Environments; Programming Environments, Modelling Tools, Testing Tools, Product Management.
ASSESSMENT:
Coursework (test/assignments) 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: INFO 3490
COURSE TITLE: PROJECT
NUMBER OF CREDITS: 4
PREREQUISITES: INFO 2400 AND INFO 2420
COURSE CONTENT: Assessing project feasibility. Methods of investigation. Project planning. Project management methodology. Select and implement an appropriate project on some topic in IT. This may include design and implementation of a computer application.
ASSESSMENT:
Project Report including Software deliverables 80%
Presentation 20%
(No final written examination)

LEVEL: II
SEMESTER: 1 AND 2
COURSE CODE: LDSP 3000
COURSE TITLE: LANDSCAPING PROJECT
NUMBER OF CREDITS: 4
PREREQUISITES: HORT 2001; VART 2401 OR VART 2402 HORT 2002 OR 3002 LDSP 1000
COURSE CONTENT: A landscaping project will require development of a landscaping proposal for presentation to a client. The proposal will cover the design solution, installation and maintenance.
COURSE ASSESSMENT:
Coursework – 100% -
• journal and portfolio – 25 % (journal assessed throughout project and portfolio due Wk. 13);
• project – 60 % (process assessed throughout project and product due on Project Deadline Date);
• oral presentation and examination – 15% (due by Wk. 13)

LEVEL: 1 YEAR 1
SEMESTER: MAY TO JUNE - 6 WEEKS
COURSE CODE: LDSP 1000
COURSE TITLE: PRACTICAL SKILLS
NUMBER OF CREDITS: 3 CREDITS
PREREQUISITES: NONE
COURSE CONTENT: Collecting basic information and quantitative data for exterior and interior environments. An introduction to nursery operations for annuals and shrubs. Establishment and maintenance of potted plants. Establishment and maintenance of annuals and shrubs outdoors. Equipment selection, use and maintenance.
COURSE ASSESSMENT:
Coursework – 100% - Journal and portfolio (50%) – journal assessed throughout the course, portfolio due during last week of the course; Manual - 50% (due during the last week of the course).
LEVEL: II
SEMESTER: 1
COURSE CODE: LDSP 3002
COURSE TITLE: HARDSCAPE CONSTRUCTION AND MAINTENANCE
NUMBER OF CREDITS: 3 CREDITS
PREREQUISITES: AGSL 1000; VART 2040, AND LDSP 1000
COURSE CONTENT: Explore successful hardscape designs through different methods. Establish suitable hardscape options for the Caribbean. Site analysis; alternation of land form (grading) and storm water management. Hardscape features for sustainable landscapes – environmental, engineering, architectural and aesthetic functions. Selection criteria for materials. Best practices including engineering standards and appropriate technologies for grading, berm formation and for installing drainage and irrigation systems. Best practices including engineering standards and appropriate technologies for installing hardscape floors, walls and fences, ceilings; embellishments including lighting and water features, statuary and sculpture; other features e.g. planters, seating, arbors. Best practices for maintaining hardscape. Plans and specifications for landform alterations, irrigation, drainage and hardscape requirements, layout and dimensioning, calculations and budgets. Proposals for installation and maintenance of hardscape features. Maintenance schedules. Safety practices.
COURSE ASSESSMENT:
- Coursework (60%)
  - Case studies – 15% (due Wk. 5, 10)
  - Laboratory – 15% (due Wk. 6, 11)
  - Project – 25% (due Wk. 13)
  - Seminar – 5% (due Wk. 13)
- Final Examination – 40%

LEVEL: 0
SEMESTER: 2
COURSE CODE: MATH 0110
COURSE TITLE: CALCULUS AND ANALYTICAL GEOMETRY
NUMBER OF CREDITS: NONE
PREREQUISITES: CSEC MATHEMATICS OR EQUIVALENT
CO-REQUISITE: MATH 0100
COURSE DESCRIPTION: The following topics will be treated with the minimum of rigour, but with emphasis on the understanding of the concepts involved. Calculus: Functions, limits, continuity, differentiability, higher derivatives and application, anti-derivatives, Simpson’s rule and the integral. Elementary methods of integration and solutions of simple differential equations. Analytical Geometry: Equations and representations of elementary plane curves. Applications of calculus to determine equations of tangents, normals and in the computation of areas and volumes.
ASSESSMENT:
- Coursework - Test 40%
- Final Examination - One 3-hour paper 60%

LEVEL: LEVEL I - UNDERGRADUATE SERVICE COURSE
SEMESTERS: 1, 2 & SUMMER
COURSE CODE: MATH 1115
COURSE TITLE: FUNDAMENTAL MATHEMATICS FOR THE GENERAL SCIENCES I
NUMBER OF CREDITS: 3
PREREQUISITEs: NONE.
NB: STUDENTS WITH ANY TWO UNITS OF CAPE LEVEL MATHEMATICS (OR EQUIVALENT), AGRI 1003 (MATHEMATICS FOR SCIENTISTS) AND/OR MATH 0100 (PRE-CALCULUS) WILL NOT RECEIVE CREDITS FOR THIS COURSE.
COURSE DESCRIPTION: The main objective of this course is to provide entering undergraduate students with a set of mathematical tools and methods that can be applied to their scientific field of choice. The major topics will be prefixed by typical mathematical problems that arise frequently in practical applications of the varying fields of science. As a service course in Mathematics, it should be considered as a broad introduction of the typical methods utilized in the applied sciences for solving problems. Little attention will be given to the underlying concepts of mathematical theory during lecture hours. Emphasis will be placed on the use of Microsoft Excel as a tool for the presentation of data in Laboratory Reports.
A sound knowledge of all concepts from CSEC Mathematics will be assumed. It should be stressed that it is not meant to be a pre-requisite for any other mathematics course offered by the Department of Mathematics and Statistics.
ASSESSMENT:
- Coursework 40%
- Final Examination: One 2-hour written paper 60%
LEVEL: I - UNDERGRADUATE SERVICE COURSE
SEMESTERS: 1, 2 & SUMMER
COURSE CODE: MATH 1125
COURSE TITLE: FUNDAMENTAL MATHEMATICS FOR THE GENERAL SCIENCES II
NUMBER OF CREDITS: 3
PREREQUISITES: EITHER CSEC MATHEMATICS (OR EQUIVALENT) OR MATH 1115
COURSE DESCRIPTION: This course is designed to be a continuation of the first semester course Fundamental Mathematics for the General Sciences I, which is therefore listed as a pre-requisite. The main objective of this course is to provide entering undergraduate students with a set of mathematical tools and methods that can be applied to their scientific field of choice. This particular course is focused on simple integral calculus and its applications.

The major topics will be prefixed by typical mathematical problems that arise frequently in practical applications of the varying fields of science. As a service course in Mathematics, it should be considered as a broad introduction of the typical methods utilized in the applied sciences for solving problems. Little attention will be given to the underlying concepts of mathematical theory during lecture hours.

A sound knowledge of all concepts from CSEC Mathematics will be assumed. It should be stressed that it is not meant to be a pre-requisite for any other mathematics course offered by the Department of Mathematics and Statistics.

ASSESSMENT:
Coursework 40%
Final Examination: One 2-hour written paper 60%

LEVEL: I
SEMESTER: 1
COURSE CODE: MATH 1140
COURSE TITLE: BASIC INTRODUCTORY MATHEMATICS
NUMBER OF CREDITS: 6
PREREQUISITES: CAPE MATHEMATICS OR MATH 0100 AND MATH 0110, OR EQUIVALENT

ASSESSMENT:
Coursework 40%
Final Examination - One 3-hour written paper 60%

LEVEL: I
SEMESTER: 2
COURSE CODE: MATH 1150
COURSE TITLE: FUNCTIONS OF REAL VARIABLES
NUMBER OF CREDITS: 6
PREREQUISITES: CAPE MATHEMATICS OR MATH 0100 AND MATH 0110, OR EQUIVALENT

ASSESSMENT:
Coursework 40%
Final Examination - One 3-hour written paper 60%
LEVEL: II
SEMESTER: 1 AND EVENING UNIVERSITY - SEMESTER 1
COURSE CODE: MATH 2100
COURSE TITLE: ABSTRACT ALGEBRA
NUMBER OF CREDITS: 4
PREREQUISITE: MATH 1140
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: II
SEMESTER: 2 AND EVENING UNIVERSITY - SEMESTER 2
COURSE CODE: MATH 2110
COURSE TITLE: LINEAR ALGEBRA
NUMBER OF CREDITS: 4
PREREQUISITE: MATH 1140
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: II
SEMESTER: 1 AND EVENING UNIVERSITY - SEMESTER 1
COURSE CODE: MATH 2140
COURSE TITLE: INTRODUCTION TO PROBABILITY
NUMBER OF CREDITS: 4
PREREQUISITES: MATH 1140 OR MATH 1150
COURSE DESCRIPTION: Basic Probability rules, including Bayes’ rule, theorem on total probability; Conditional Probability; Random Variable; Mathematical Expectation; means, variance; Covariance of variables. Variance of sum of n random variables. Chebychev’s theorem; Standard density functions and mass functions; Moment generating function. Random sample; some important statistics, sampling distributions. Central limit theorem.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: II
SEMESTER: 2 AND EVENING UNIVERSITY - SEMESTER 2
COURSE CODE: MATH 2150
COURSE TITLE: INTRODUCTION TO STATISTICS
NUMBER OF CREDITS: 4
PREREQUISITES: MATH 2140 OR MATH 3110
COURSE DESCRIPTION: Theory of Estimation: Ideas of point estimation; mean-squared error; interval estimation; method of maximum likelihood; Cramer-Rao Inequality. Hypothesis Testing: Type I and Type II errors; tests concerning means, variances and proportions; Goodness of fit Tests; non-parametric tests. Ideas of Regression Analysis including simple linear Regression in detail; Experimental Design and the Analysis of Variance (Completely Randomised Design, Block Designs, Latin Squares, Factorial Designs).
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour paper 60%
LEVEL II
SEMESTER: 2 AND EVENING UNIVERSITY - SEMESTER 2
COURSE CODE: MATH 2160
COURSE TITLE: ANALYSIS & MATHEMATICAL METHODS II
NUMBER OF CREDITS: 4
PREREQUISITES: MATH 1140 AND MATH 1150
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL II
SEMESTER: 1
COURSE CODE: MATH 2170
COURSE TITLE: INTRODUCTION TO COMBINATORICS
NUMBER OF CREDITS: 4
PREREQUISITE: MATH 1140
COURSE DESCRIPTION: Permutations and Combinations. The Inclusion - Exclusion Principle. Linear equations with unit coefficients; Recurrence relations; Generating functions; Geometry of the plane; Colouring problems; Combinatorial probability. Partitions of integer; Random walks; Designs.
ASSESSMENT:
Coursework 25%
Final Examination - One 2-hour written paper 75%

LEVEL II
SEMESTER: 2
COURSE CODE: MATH 2180
COURSE TITLE: INTRODUCTION TO OPTIMIZATION
NUMBER OF CREDITS: 4
PREREQUISITE: MATH 1140
COURSE DESCRIPTION: Graphs and Digraphs; Ranking; Shortest Path; Communication Networks; Convex sets; Linear programming; Simplex Method; Theory of games.
ASSESSMENT:
Coursework Examination 25%
Final Examination - One 2-hour written paper 75%

LEVEL II
SEMESTER: 1
COURSE CODE: MATH 2190
COURSE TITLE: PROBABILITY AND STATISTICS I
NUMBER OF CREDITS: 4
PREREQUISITE: MATH 1140 OR MATH 1150
N.B. STUDENTS TAKING MATH 2190 CANNOT ALSO GET CREDIT FOR MATH 2140 AND MATH 2150
Estimation Type I and Type II errors, significance level and power. Hypothesis of means, variances and proportions. Regression Analysis (mainly simple linear regression). Experimental Design. One and two-way ANOVA. Basic ideas of sampling from finite populations.
Comment:
MATH 2190 is a four (4) credit alternative to both MATH 2140 and MATH 2150 and is primarily aimed at non-Mathematics Majors.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour paper 60%

LEVEL II
SEMESTER: 1
COURSE CODE: MATH 2210
COURSE TITLE: MATHEMATICS OF FINANCE
NUMBER OF CREDITS: 4
PREREQUISITE: MATH 1140 or MATH 1150
COURSE DESCRIPTION: Introduction to actuarial science; measurement of interest; solutions of problems in interest, basic annuities; more general annuities, yield rates, amortization schedules and sinking funds, bonds and other securities, practical applications.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%
LEVEL: II
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: MATH 2200
COURSE TITLE: PROBABILITY AND STATISTICS II
NUMBER OF CREDITS: 4
PREREQUISITE: MATH 2190 N.B. STUDENTS TAKING MATH 2190 CANNOT ALSO GET CREDIT FOR MATH 2140 AND MATH 2150
COURSE DESCRIPTION: Probability Theory: Conditional expectation for discrete random variables, Bayes’ Theorem, transformations of one random variable, evaluation of probabilities of events for continuous bivariate random variables transformations of two random variables, the squared distributions, moment generating functions; proof of the Central Limit Theorem, Markov and Chebychev inequalities, the weak law of large numbers. Statistical Inference: Unbiasedness, Fisher information and the Cramer-Rao inequality (without proof), sufficiency, the Fisher factorization criterion, the Neyman-Pearson lemma. Statistical Methods: Factorial designs; non-parametric rank methods, the sign test, squared rank test, rank sum test, Kruskal-Wallis test, goodness of fit tests. Sampling Theory of Surveys: Simple random samples, stratified samples, ideas underlying other sampling schemes, non-sampling sources of error including non-response and poor sampling design.
ASSESSMENT:
Coursework  40%
Final Examination - One 2-hour written paper  60%

LEVEL: III
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: MATH 3110
COURSE TITLE: MATHEMATICAL STATISTICS - PROBABILITY THEORY
NUMBER OF CREDITS: 4
PREREQUISITES: MATH 2120
N.B. STUDENTS CANNOT GET CREDITS FOR BOTH MATH 2140 AND MATH 3110
COURSE DESCRIPTION: Basic Probability rules, including Bayes’ rule, theorem on total probability; Conditional Probability; Random Variable; Mathematical Expectation; means, variance; Covariance of variables. Variance of sum of n random variables, Chebychev’s theorem; Standard density functions and mass functions; Moment generating function. Random sample; some important statistics, sampling distributions. Central limit theorem. Transformations of several random variables; order statistics; conditional expectation; the bivariate and multivariate normal distributions.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: MATH 3120
COURSE TITLE: MATHEMATICAL STATISTICS - STATISTICAL INFERENCE
NUMBER OF CREDITS: 4
PREREQUISITE: MATH 3110
N.B. STUDENTS CANNOT GET CREDITS FOR BOTH MATH 2150 AND MATH 3120
Estimation from multinomial populations. Simple random, stratified, cluster and systematic sampling; non-sampling errors in surveys; likelihood ratio tests.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%
<table>
<thead>
<tr>
<th>LEVEL: III</th>
<th>LEVEL: III</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER: 1</td>
<td>SEMESTER: 1</td>
</tr>
<tr>
<td>COURSE CODE: MATH 3240</td>
<td>COURSE CODE: MATH 3280</td>
</tr>
<tr>
<td>COURSE TITLE: REAL ANALYSIS</td>
<td>COURSE TITLE: INTRODUCTION TO MATHEMATICAL MODELLING I</td>
</tr>
<tr>
<td>NUMBER OF CREDITS: 4</td>
<td>NUMBER OF CREDITS: 4</td>
</tr>
<tr>
<td>PREREQUISITE: MATH 2120 OR MATH 2100</td>
<td>PREREQUISITES: MATH 2120 AND MATH 2160</td>
</tr>
<tr>
<td><strong>ASSESSMENT:</strong></td>
<td><strong>ASSESSMENT:</strong></td>
</tr>
<tr>
<td>Coursework 25%</td>
<td>Coursework 25%</td>
</tr>
<tr>
<td>Final Examination - One 2-hour written paper 75%</td>
<td>Final Examination - One 2-hour written paper 75%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL: III</th>
<th>LEVEL: III</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER: 1</td>
<td>SEMESTER: 2</td>
</tr>
<tr>
<td>COURSE CODE: MATH 3250</td>
<td>COURSE CODE: MATH 3290 (M 34A)</td>
</tr>
<tr>
<td>COURSE TITLE: FLUID DYNAMICS I</td>
<td>COURSE TITLE: COMBINATORICS</td>
</tr>
<tr>
<td>NUMBER OF CREDITS: 4</td>
<td>NUMBER OF CREDITS: 4</td>
</tr>
<tr>
<td>PREREQUISITES: MATH 2120 AND MATH 2160</td>
<td>PREREQUISITE: MATH 2100 (M20A) OR MATH 2110 (M20B)</td>
</tr>
<tr>
<td><strong>ASSESSMENT:</strong></td>
<td><strong>ASSESSMENT:</strong></td>
</tr>
<tr>
<td>Coursework 40%</td>
<td>Coursework 25%</td>
</tr>
<tr>
<td>Final Examination - one 2-hour written paper 60%</td>
<td>Final Examination - One 2-hour written paper 75%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL: III</th>
<th>LEVEL: III</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER: NOT OFFERED IN 2011/2012</td>
<td>SEMESTER: 1</td>
</tr>
<tr>
<td>COURSE CODE: MATH 3260</td>
<td>COURSE CODE: MATH 3310</td>
</tr>
<tr>
<td>COURSE TITLE: FLUID DYNAMICS II</td>
<td>COURSE TITLE: LIFE CONTINGENCIES</td>
</tr>
<tr>
<td>NUMBER OF CREDITS: 4</td>
<td>NUMBER OF CREDITS: 4</td>
</tr>
<tr>
<td>PREREQUISITE: MATH 3250</td>
<td>PREREQUISITES: MATH 2140, MATH 2150 AND MATH2220</td>
</tr>
<tr>
<td>COURSE DESCRIPTION: Further Two-dimensional Flows; Some Three-dimensional Flows; Viscous Flows</td>
<td>COURSE DESCRIPTION: Multiple life functions, multiple decrement model; insurance models Including expenses; non-forfeiture, benefits and dividends; valuation theory for pension plans.</td>
</tr>
<tr>
<td><strong>ASSESSMENT:</strong></td>
<td><strong>ASSESSMENT:</strong></td>
</tr>
<tr>
<td>Coursework 40%</td>
<td>Coursework (one in-course test) 20%</td>
</tr>
<tr>
<td>Final Examination - One 2-hour written paper 60%</td>
<td>Final Examination - One 2-hour written paper 80%</td>
</tr>
</tbody>
</table>
LEVEL: III  
SEMESTER: 2  
COURSE CODE: MATH 3320  
COURSE TITLE: RISK THEORY  
NUMBER OF CREDITS: 4  
PREREQUISITES: MATH 2120, MATH 2160, MATH 2140, AND MATH 2150  
COURSE DESCRIPTION: Review of earlier statistical work: individual risk theory; other frequency distributors; mixed distributions; stoploss insurance; ruin theory  
ASSESSMENT:  
Coursework 40%  
Final Examination - One 2-hour written paper 60%  

SEMESTER: NOT OFFERED IN 2011/2012  
COURSE CODE: MATH 3321  
COURSE TITLE: PRINCIPLES OF ASSET/LIABILITY MANAGEMENT ACTUARIAL SCIENCE  
NUMBER OF CREDITS: 4  
PREREQUISITES: MATH 2210, MGMT2023, AND MGMT3048  
COURSE DESCRIPTION: Review of Macroeconomics; characteristics of the various types of investments used to fund financial security programmes; traditional techniques of financial analysis used in selecting and managing investment portfolios. The course builds on the material in courses MGMT2023 (MS28D) and MGMT3048 (MS38H), introducing further tools and techniques of asset/liability management, general product design, as well as issues of pricing and valuation and asset management.  
ASSESSMENT:  
Coursework 40%  
Final Examination - One 2-hour written paper 60%  

LEVEL: III  
SEMESTER: 1  
COURSE CODE: MATH 3351  
COURSE TITLE: REGRESSION AND TIME SERIES ANALYSIS  
NUMBER OF CREDITS: 4  
PREREQUISITE: MATH 2140, MATH 2150, AND MATH 2210  
COURSE DESCRIPTION: This course continue on the applied aspects of M25B such as analysis of variance, regression analysis, design of experiments and categorical data analysis, time series analysis, stochastic processes and decision theory.  
ASSESSMENT:  
Coursework  
In-course Tests 30%  
Assignments 10%  
Final Examination - One 2-hour written paper 60%  

LEVEL: III  
SEMESTER: NOT OFFERED IN 2011/2012  
COURSE CODE: MATH 3354  
COURSE TITLE: ACTUARIAL PROJECT  
NUMBER OF CREDITS: 4  
PREREQUISITE: MATH2210, MATH2220, MATH3310, MATH3320  
COURSE DESCRIPTION: This course requires the student to develop an actuarial solution to a problem define of an appropriate scope. The project may be application oriented where the student builds a business solution similar to what is required to solve actuarial problems. The project should require the student to draw on the skills developed across several Actuarial Science courses.  
ASSESSMENT:  
Coursework:  
Project report 80%  
Presentation 20%  

LEVEL: III  
SEMESTER: 1  
COURSE CODE: MATH 3400  
COURSE TITLE: GRAPH THEORY  
NUMBER OF CREDITS: 4  
PREREQUISITE: MATH 2100  
ASSESSMENT:  
Coursework 40%  
Final Examination - One 2-hour written paper 60%  

LEVEL: III  
SEMESTER: NOT OFFERED IN 2011/2012  
COURSE CODE: MATH 3410  
COURSE TITLE: COMBINATORICS AND COMPUTING  
NUMBER OF CREDITS: 4  
PREREQUISITES: COMP 1100, COMP 1200, MATH 2170, AND MATH 2180  
ASSESSMENT:  
Coursework – A project consisting of a computer implementation together with a project report 25%  
Final Examination - One 2-hour written paper 75%
LEVEL: III
SEMESTER: NOT OFFERED IN 2011/2012
COURSE CODE: MATH 3420
COURSE TITLE: SPECIAL TOPICS IN GRAPH THEORY
NUMBER OF CREDITS: 4
PREREQUISITES: MATH 2170, MATH 2180 AND MATH 3400
COURSE DESCRIPTION: The syllabus and content at any one time will depend on the research interests of the lecturer; for example, F-Polynomials of Graphs. Relevant course material will be made available.
ASSESSMENT:
Coursework - A project accounting for 25%
(a) project report 15%
(b) 1-hour seminar 10%
Final Examination - One 2-hour written paper 75%

LEVEL: III
SEMESTER: 1
COURSE CODE: MATH 3430
COURSE TITLE: ADVANCED ALGEBRA I - THEORY
NUMBER OF CREDITS: 4
PREREQUISITES: MATH 2100 AND MATH 2110
COURSE DESCRIPTION: Group Theory: Fundamentals, Cyclic groups, Cosets, Homomorphism Theorems; The Sylow Theorems, Theory of p-groups, Direct products of groups, Solvable groups.
ASSESSMENT:
Coursework - 25%
(Assignment 5% & two written exams 10% each)
Final Examination - One 2-hour written paper 75%

LEVEL: III
SEMESTER: II
COURSE CODE: MATH 3440
COURSE TITLE: ADVANCED ALGEBRA II - APPLICATIONS
NUMBER OF CREDITS: 4
PREREQUISITES: MATH 3430
COURSE DESCRIPTION: Straight-edge and Compass constructions; Coding theory; Polynomial and matrix representation of codes; Applied Linear Algebra; Change of basis; Linear transformation; Functions of matrices; The Jordan Canonical form of a matrix; Solution of systems of differential equations; Quadratic surfaces.
ASSESSMENT:
Coursework - 25%
(Assignment 5% & two written exams 10% each)
Final Examination - One 2-hour written paper 75%

LEVEL: III
SEMESTER: 1
COURSE CODE: MATH 3450
COURSE TITLE: STATISTICAL THEORY I
NUMBER OF CREDITS: 4
PREREQUISITES: MATH 2120 AND EITHER MATH 2140 OR MATH 3110
COURSE DESCRIPTION: Joint and Conditional Distributions; Distribution of Functions of Random variables; Moment Generating Function Techniques; Order Statistics; Poisson Process; Finite Markov Chains; Introduction to Queueing Theory.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: MATH 3460
COURSE TITLE: STATISTICAL THEORY II
NUMBER OF CREDITS: 4
PREREQUISITES: (I) MATH 2140 OR MATH 3110 (II) MATH 2150 OR MATH 3120 (III) MATH 2120
COURSE DESCRIPTION: Methods of finding estimators and their properties Bayesian Inference; Regression Analysis; Time Series Analysis; Testing of Hypotheses; Design of Experiments; Sampling Theory.
ASSESSMENT:
Coursework 40%
Final Examination - One 2-hour written paper 60%

LEVEL: III
SEMESTER: 2
COURSE CODE: MATH 3470
COURSE TITLE: SAMPLING THEORY
NUMBER OF CREDITS: 4
PREREQUISITES: MATH 2150 OR ECON 2006 (MINIMUM QUALITY POINTS 3.3)
COURSE DESCRIPTION: Basic ideas concerning the design and uses of sample surveys. Sampling techniques: Simple random sampling (with derivations of basic results), Stratified sampling, Cluster sampling (one and two stage). Systematic sampling. Non-response and missing data in sample surveys. Designing forms and collecting data. Interpretation of data and survey report writing. Topics in the sampling of non-human populations.
ASSESSMENT:
Coursework - (in-course examinations and projects) 40%
Final Examination - One 2-hour written paper 60%
LEVEL: III
SEMESTER: 2
COURSE CODE: MATH 3500
COURSE TITLE: COMPLEX ANALYSIS
NUMBER OF CREDITS: 4
PREREQUISITES: MATH 2120 AND MATH 2160
ASSESSMENT:
Coursework 25%
Final Examination - One 2-hour written paper 75%

LEVEL: II
SEMESTER: 2
COURSE CODE: MGMT 2003
COURSE TITLE: PRINCIPLES OF MARKETING
NUMBER OF CREDITS: 3
PREREQUISITES: ECON 1001 AND ACCT 1002
DEPARTMENT RESPONSIBLE: MANAGEMENT STUDIES
COURSE DESCRIPTION: This course is intended to provide students with the conceptual framework and analytical skills necessary for the analysis of markets and marketing activities of firms in a dynamic environment.
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: II
SEMESTER: 2
COURSE CODE: MGMT 2006
COURSE TITLE: MANAGEMENT INFORMATION SYSTEMS I
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: This course provides an overview of Management Information Systems. It describes the components of Management Information Systems and the relationship of MIS to the larger area of Organisation and Management. Information Systems Technology is covered.
ASSESSMENT:
Coursework 25%
Final Examination 75%
LEVEL: II
SEMESTER: 1
COURSE CODE: MGMT 2012
COURSE TITLE: QUANTITATIVE METHODS
NUMBER OF CREDITS: 3
PREREQUISITES: FOR CHEMISTRY AND MANAGEMENT STUDENTS: ECON 1001 AND CHEM 1060
FOR COMPUTER SCIENCE & MANAGEMENT STUDENTS: ECON 1002 AND MATH 1140
DEPARTMENT RESPONSIBLE: MANAGEMENT STUDIES
COURSE DESCRIPTION: This course is an introductory level survey of quantitative techniques commonly used to provide insight into business decisions. The primary emphasis is on preparing the student to become an intelligent user of these techniques.
ASSESSMENT:
Coursework 25%
Final Examination 75%

LEVEL: II
SEMESTER: 1
COURSE CODE: MGMT 2021
COURSE TITLE: BUSINESS LAW
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
DEPARTMENT RESPONSIBLE: MANAGEMENT STUDIES
COURSE DESCRIPTION: The main focus of this course is the general principles of the law of contract, the law of Agency as well as other related areas of interest like the Sale of Goods Act and the Hire Purchase Act 1938 and 1954. Background material covers the role and function of the law in society, the sources of the law, the legal system etc.
ASSESSMENT:
Coursework 25%
Final Examination 75%

LEVEL: II
SEMESTER: 1
COURSE CODE: MGMT 2023
COURSE TITLE: FINANCIAL MANAGEMENT I
NUMBER OF CREDITS: 3
PREREQUISITES: FOR CHEMISTRY AND MANAGEMENT STUDENTS: ACCT 1002 AND ECON 1003 OR CHEM1060
FOR COMPUTER SCIENCE & MANAGEMENT STUDENTS: ACCT 1002 AND MATH1140.
FOR BSc ACTUARIAL STUDENTS: ECON 1002 AND ACCT 1002
DEPARTMENT RESPONSIBLE: MANAGEMENT STUDIES
COURSE DESCRIPTION: This course is concerned with the core concepts of financial decision-making; the time-value of money, the cost of capital and trade-offs between risk and return. Students should develop a thorough understanding of these basic concepts and how to apply them in real-world examples
ASSESSMENT:
Coursework 40%
Final Examination 60%

LEVEL: III
SEMESTER: 1
COURSE CODE: MKTG 3000
COURSE TITLE: MARKETING MANAGEMENT
NUMBER OF CREDITS: 3
PREREQUISITES: MGMT 2003
DEPARTMENT RESPONSIBLE: MANAGEMENT STUDIES
COURSE DESCRIPTION: This course is concerned with the development of the student’s marketing decision-making and students are expected to undertake a marketing project based on fieldwork.
ASSESSMENT:
Coursework 30%
Final Examination 70%
LEVEL: III
SEMESTER: 1
COURSE CODE: MGMT 3011
COURSE TITLE: MANAGEMENT INFORMATION SYSTEMS II (ANALYSIS AND DESIGN)
NUMBER OF CREDITS: 3
PREREQUISITES: MGMT 2006
COURSE DESCRIPTION: This course addresses the need for managers to understand the requirements for Information Systems, to participate in the design of systems and to manage the procurement of systems.

LEVEL: III
SEMESTER: 1
COURSE CODE: MGMT 3017
COURSE TITLE: HUMAN RESOURCE MANAGEMENT
NUMBER OF CREDITS: 3
PREREQUISITES: MGMT 2008
COURSE DESCRIPTION: This course provides participants with a broad overview of issues pertaining to human resource management with special reference to the Caribbean environment.

LEVEL: III
SEMESTER: 2
COURSE CODE: MKTG 3007
COURSE TITLE: MARKETING PLANNING
NUMBER OF CREDITS: 3
PREREQUISITES: MGMT 2003, MGMT 2012 AND MGMT 2023
COURSE DESCRIPTION: This intention is to equip students with the tools necessary for effective marketing planning in the public and private sectors. Analytical methods and data sources necessary in defining competition, analysing an industry and customers, and forecasting market potential is covered in depth. Students are expected to develop an actual marketing plan as a coursework project.
ASSESSMENT:
Coursework 30%
Final Examination 70%

LEVEL: III
SEMESTER: 1
COURSE CODE: MGMT 3057
COURSE TITLE: PRODUCTION AND OPERATIONS
NUMBER OF CREDITS: 3
PREREQUISITES: MGMT 2012
COURSE DESCRIPTION: This course is intended to present students with an up-to-date view of primary activities of the production/operations functions in organisations. The production/operations function is an area of management that has a profound effect on efficiency, productivity and the quality of our daily lives. Focusing on Caribbean economies, the course will examine the resources that are required in the production of goods and services and illustrate the method of their acquisition utilisation, and upkeep. The topics to be covered will be shown to apply not only to the manufacturing sector but to the service sectors as well such as banks, hospitals, etc.
ASSESSMENT:
Coursework 30%
Final Examination 70%

LEVEL: III
SEMESTER: 2
COURSE CODE: MGMT 3060
COURSE TITLE: OPERATIONS, PLANNING AND CONTROL
NUMBER OF CREDITS: 3
PREREQUISITES: MGMT 3057
COURSE DESCRIPTION: Building on the earlier course in Production and Operations Management, this course is intended to illustrate the array of planning and control techniques available to management to ensure the maximum productivity, quality, efficiency and profitability of the various operation systems involved in the production of goods and services.
ASSESSMENT:
Coursework 25%
Final Examination 75%

LEVEL:
SEMESTER: 1
COURSE CODE: OPTM 1011
COURSE TITLE: HUMAN ANATOMY AND PHYSIOLOGY
NUMBER OF CREDITS: 4
PRACTICAL: A course of laboratory practical work consistent with the outline syllabus
MODE OF ASSESSMENT
One 2 hr. at end of module - 60%
Two in course exams - 20%
Practical Coursework - 20%
COURSE TITLE: GENERAL PATHOLOGY AND MICROBIOLOGY
NUMBER OF CREDITS: 4
PREREQUISITES:
COURSE DESCRIPTION:
GENERAL PATHOLOGY of the human body and body systems. MICROBIOLOGY - Overview of the microbial world. Structure and function of microbes and their nutritional and physiological requirements. The role of the human commensal microflora. Introduction to microbial diseases. Introduction to bacterial genetics and gene transfer. Sterilization and disinfections.
PRACTICAL: A course of laboratory practical work consistent with the outline syllabus
MODE OF ASSESSMENT
One 2 hr. at end of module: 60%
Two in course exams: 20%
Practical Coursework: 20%

COURSE TITLE: INTRODUCTION TO THE OPTOMETRY PROFESSION
NUMBER OF CREDITS: 2
PREREQUISITES:
COURSE DESCRIPTION: Understanding Optometry as a health care profession. Relationship of the profession to others in the eye care field including Ophthalmology, opticianry. Opportunities available to the Optometrist as a professional. Attitudes needed for the study and practice of optometry. A general knowledge the legal status, standards of practice, professional conduct and associations. Introduction to Optometric terms, instrumentations and literatures. Optometry in America, Asia, Africa, Australia, Europe and the Caribbean.
MODE OF ASSESSMENT
One 2 hr. examination at end of module: 60%
Two in course exams: 40%

COURSE TITLE: INTRODUCTION TO CLINICAL OPTOMETRY
NUMBER OF CREDITS: 2
PREREQUISITES:
COURSE DESCRIPTION: Retinoscopy and Subjective Refraction
PRACTICAL CLINICAL SESSIONS:
MODE OF ASSESSMENT
One 2 hr. at end of module: 60%
Two in course exams: 20%
Practical Coursework: 20%

COURSE TITLE: PURE OPTICS
NUMBER OF CREDITS: 3
PREREQUISITES:
PRACTICAL CLASSES:
MODE OF ASSESSMENT
One 2 hr. examination at end of module: 60%
Two in course exams: 20%
Practical Coursework: 20%
LEVEL:
SEMESTER:
COURSE CODE: OPTM 1061
COURSE TITLE: LEARNING AND KEY SKILLS DEVELOPMENT
NUMBER OF CREDITS: 3
PREREQUISITES:
COURSE DESCRIPTION:
Information Technology: Computer literacy; Microsoft Office Applications; Word, Excel.
PRACTICALS /TUTORIALS:
Special Laboratory and Tutorial Classes
MODE OF ASSESSMENT
One 2 hr. at end of module - 60%
Two in course exams – 20%
Practical/Tutorial Coursework -20%

LEVEL:
SEMESTER: 2
COURSE CODE: OPTM 1021
COURSE TITLE: ANATOMY AND PHYSIOLOGY OF THE EYE
NUMBER OF CREDITS: 3
PREREQUISITES:
COURSE DESCRIPTION:
PRACTICAL:
A course of laboratory practical work consistent with the outline syllabus
MODE OF ASSESSMENT
One 2 hr. at end of module- 60%
Two in course exams – 20%
Practical Coursework -20%

LEVEL:
SEMESTER:
COURSE CODE: OPTM 1022
COURSE TITLE: ANATOMY AND PHYSIOLOGY OF RELATED STRUCTURES
NUMBER OF CREDITS: 3
PREREQUISITES:
COURSE DESCRIPTION:
PRACTICAL:
A course of laboratory practical work consistent with the outline syllabus
MODE OF ASSESSMENT
One 2 hr. at end of module- 60%
Two in course exams – 20%
Practical Coursework -20%

LEVEL:
SEMESTER:
COURSE CODE: OPTM 1042
COURSE TITLE: VISUAL OPTICS
NUMBER OF CREDITS: 3
PREREQUISITES:
COURSE DESCRIPTION:
PRACTICAL CLASSES
Field of view with direct and indirect ophthalmoscopes. Accommodation, ametropia and back vertex distance.
MODE OF ASSESSMENT
One 2 hr. at end of module- 60%
Two in course exams – 20%
Practical Coursework - 20%
LEVEL: 2 (2nd Year).
SEMESTER: 1
COURSE CODE:  OPTM 2011
COURSE TITLE: GENERAL PHARMACOLOGY
NUMBER OF CREDITS: 3
PRE-REQUISITES: OPTM 1021 AND OPTM 1022
CO-REQUISITES: NONE
COURSE DESCRIPTION: General principles of pharmacology and Toxicity, Autocoid agents and antagonist, Drugs affecting the respiratory system, Gastrointestinal agents, Antimicrobial agents, Antiviral and Antineoplastic agents. Immunopharmacological agents, Anti-inflammatory agents, General and Local Anesthetics, major drugs acting on the endocrine system, major drugs acting on the kidney, Toxicology, drugs use and metabolism in pregnancy and breast feeding. Autonomic pharmacology. Selected examples of pathology in the cardiovascular and central nervous systems. General pharmaceutical term, drug nomenclature and related prescription writing.

MODE OF ASSESSMENT
One 2 hr. at end of module- 60%
Two in course exams – 20%
Practical Coursework - 20%
LEVEL:  
SEMESTER:  
COURSE CODE: OPTM 2042  
COURSE TITLE: OCULAR PATHOLOGY AND IMMUNOLOGY  
NUMBER OF CREDITS: 3  
PRE-REQUISITES: OPTM 1021 AND OPTM 1022  
CO-REQUISITES: NONE  
COURSE DESCRIPTION:  
OCULAR PATHOLOGY: This course brings the student to the facts regarding diseases of the eye, including congenital acquired deformities. The lectures are presented in good details to give the student a well-rounded understanding of the basic causes, symptoms and signs, pathology, prognosis, treatment and prevention of the eye diseases the Optometrist is likely to meet. Included under the course diffuse diseases of the eye and sequelae; diseases and abnormalities of the external eye and. adnexa, conjunctiva, cornea, sclera, uveal tract, lens, vitreous, glaucoma, orbit, trauma and ocular emergencies. Primary open angle glaucoma; aetiology of cataract; microbial conjunctivitis, diabetic eye disease; arteriosclerotic/hypertensive retinopathy, age-related maculopathy, anterior uveitis, wet and dry eyes, abnormal eye movements; the differential diagnosis of red eye.  
IMMUNOLOGY -Antigens, antibodies, T-cells, B-cells, cytokines, hypersensitivity, tolerance, transplantation and graft rejections (mechanism) autoimmunity, Tumor immunology and Immunological tests. 

MODE OF ASSESSMENT  
One 2 hr. at end of module - 60%  
Two in course exams – 20%  
Practical Coursework - 20%  

LEVEL:  
SEMESTER:  
COURSE CODE: OPTM 2051  
COURSE TITLE: PHYSIOLOGY OF VISION AND PERCEPTION II  
NUMBER OF CREDITS: 3  
PRE-REQUISITES: OPTM 1051 AND OPTM 1052  
CO-REQUISITES: NONE  
COURSE DESCRIPTION:  

MODE OF ASSESSMENT  
One 2 hr. at end of module - 60%  
Two in course exams - 20%  
Practical Coursework - 20%
LEVEL: 2  
SEMESTER:  2  
COURSE CODE: OPTM 2022  
COURSE TITLE: OCULAR PHARMACOLOGY  
NUMBER OF CREDITS: 3  
PRE-REQUISITES: OPTM 1021 AND OPTM 1022  
CO-REQUISITES: NONE  
COURSE DESCRIPTION: Pharmacology of the major classes of ocular drugs. Processes of general pathology. Diagnostic stains, drugs used in diagnostics and therapeutics. Ocular drugs and contact lens solutions used in primary optometric care. The laws pertaining to the supply and use of ocular drugs.

MODE OF ASSESSMENT  
One 2 hr. at end of module- 60%  
Two in course exams – 20%  
Practical Coursework -20%

LEVEL:  
SEMESTER:  
COURSE CODE: OPTM 2031  
COURSE TITLE: VISUAL AND OCULAR ASSESSMENT-TECHNIQUES AND INSTRUMENTATION (CREDITS)  
NUMBER OF CREDITS: 3  
PRE-REQUISITES: 1031 AND OPTM 1032  
CO-REQUISITES: NONE  
COURSE DESCRIPTION: Slit lamp biomicroscopy, conjunctivitis and uveitis, differential diagnosis of the red eye, wet and dry eyes, contrast sensitivity, glare testing, potential vision tests, age-related cataract, tonometry (contact and non-contact), visual field examination, gonioscopy, primary open-angle glaucoma, Direct and indirect ophthalmoscopy, Fundus Camera, Visual Field Analyzers, Retinoscopy, Lensometry, Phoropter / Trial lens set. New imaging technology, diabetic eye disease, arteriosclerotic/hypertensive retinopathy, photostress recovery time, age-related maculopathy, clinical colour vision, VEP/ERG, congenital and juvenile ocular disease and abnormality.

MODE OF ASSESSMENT  
One 2 hr. at end of module - 60%  
Two in course exams - 20%  
Practical Coursework -20%

LEVEL:  
SEMESTER:  
COURSE CODE: OPTM 2061  
COURSE TITLE: ASSESSMENT OF BINOCULAR  
NUMBER OF CREDITS: 3  
PREREQUISITES: OPTM 1051 AND OPTM 1052  
CO- REQUISITES: NONE  

MODE OF ASSESSMENT  
One 2 hr. at end of module - 60%  
Two in course exams - 20%  
Practical Coursework -20%

LEVEL:  
SEMESTER:  
COURSE CODE: OPTM 2082  
COURSE TITLE: CONTACT LENS PRACTICE 1  
NUMBER OF CREDITS: 3  
PREREQUISITES: OPTM 1041 AND OPTM 1042  
CO-REQUISITES: NONE  
COURSE DESCRIPTION: The principles involved in correcting the eye with a contact lens are considered in relation to factors like lens power magnification, accommodative effort, effects on binocular vision. Thick lens theory is used to illustrate how contact lenses are used to correct both spherical and astigmatic corrections. The back surface geometry of modern contact lens designs in considered in order to illustrate the fitting relationship between the contact lens and the cornea. The short and long term consequences of contact lens wear on the anatomy and physiology of the anterior eye are considered. Practical classes are conducted in contact lens fitting principles.

MODE OF ASSESSMENT  
One 2 hr. exam at end of module - 60%  
Two in course exams - 20%  
Practical Coursework -20%
LEVEL:  
SEMESTER:  
COURSE CODE: OPTM 2102  
COURSE TITLE: LOW VISION AND AGEING  
NUMBER OF CREDITS: 3  
PREREQUISITES: OPTM 1031 AND OPTM 1032  
CO-REQUISITES: NONE  
COURSE DESCRIPTION:  
Physiology and pathological changes with ageing, ocular and vision changes in the normal and in the visually handicapped patient. Physiological aspects of ageing and low vision. Clinical assessment of low vision. Prescribing low vision aids. Low vision prescribing in private practice. The multidisciplinary nature of low vision rehabilitation.  
MODE OF ASSESSMENT  
One 2 hr. at end of module-  60%  
Two in course exams –  20%  
Practical Coursework  -20%  

LEVEL:  
SEMESTER: 1  
COURSE CODE: OPTM 3011  
COURSE TITLE: OCULAR & SYSTEMIC DISEASE I  
NUMBER OF CREDITS: 3  
PREREQUISITES: OPTM 1011, OPTM 1012, OPTM 2021, OPTM 2022, OPTM 2031, OPTM 2042  
CO-REQUISITES: NONE  
COURSE DESCRIPTION:  
MODE OF ASSESSMENT  
One 2 hr. at end of module- 60%  
Two in course exams – 20%  
Practical Coursework -20%  

LEVEL:  
SEMESTER:  
COURSE CODE: OPTM 3021  
COURSE TITLE: GENERAL CLINICAL PRACTICE:  
NUMBER OF CREDITS: 6 - TWO SEMESTERS  
PREREQUISITES: OPTM 2031  
CO-REQUISITES: NONE  
COURSE DESCRIPTION:  
Particular attention is paid to patient/practitioner interaction, clinical decision-making, differential diagnosis, case analysis and difficulties in prescribing and counseling.  
MODE OF ASSESSMENT  
General Clinical and Dispensing Station Examinations- 60%  
Submission of case Records/ Log books – 20%  
Two (2) Clinical Diagnosis and recognition Coursework Examinations -20%  

LEVEL:  
SEMESTER:  
COURSE CODE: OPTM 3031  
COURSE TITLE: ADVANCED CLINICAL PRACTICE I  
NUMBER OF CREDITS: 6 (TWO SEMESTERS)  
PREREQUISITES: OPTM 1012, OPTM 2031, OPTM 2042, OPTM 2061, OPTM 2082  
CO-REQUISITES: NONE  
COURSE DESCRIPTION:  
Binocular Vision and Orthoptics  
The description, classification and evaluation of binocular vision anomalies. Taking a good case history. Communication and clinical approaches with children. The practical management of heterophoria and strabismus.  
Contact Lens Practice  
Prospective contact lens patients will be assessed for suitability. Suitable patients will be fitted with the most appropriate type of lenses. Existing wearers will be given full after-care checks.  
Visual Impairment  
Full case records will be taken.  
Ocular Pathology  
Experience of ocular abnormality and pathology gained from patient material provided for the hospital visits.  
MODE OF ASSESSMENT  
Clinical Assessment Station Examinations and case record submissions in binocular vision, -  30%  
Clinical Assessment Station Examinations and case record submission in contact lens practice – 30 %
LEVEL:  
SEMESTER:  
COURSE CODE: OPTM 3041  
COURSE TITLE: VISUAL ERGONOMICS  
NUMBER OF CREDITS: 3  
PRE-REQUISITES: OPTM 1012, OPTM 2031, OPTM 2042, OPTM 2051, OPTM 2082  
CO-REQUISITES: NONE  
COURSE DESCRIPTION:  
MODE OF ASSESSMENT:  
One 2 hr. at end of module - 60%  
Two in course exams - 20%  
Practical Coursework - 20%  

LEVEL:  
SEMESTER: 2  
COURSE CODE: OPTM 3051  
COURSE TITLE: BINOCULAR VISION AND ORTHOPTICS  
NUMBER OF CREDITS: 3  
REREQUISITES: OPTM 2061  
CO-REQUISITES: NONE  
COURSE DESCRIPTION:  
MODE OF ASSESSMENT:  
One 2 hr. at end of module - 60%  
Two in course exams - 20%  
Practical Coursework - 20%  

LEVEL:  
SEMESTER:  
COURSE CODE: OPTM 3061  
COURSE TITLE: CONTACT LENS PRACTICE II  
NUMBER OF CREDITS: 3  
PRE-REQUISITES: OPTM 2082  
CO-REQUISITES: NONE  
COURSE DESCRIPTION:  
The process of assessing the suitability of any prospective patient for contact lenses is considered with reference to the possible anatomical and physiological changes induced by contact lens wear. The procedures adopted in fitting lenses along with techniques required for adequate aftercare are covered. The different lens types, materials and designs are compared, particularly in relation to the advantage or disadvantage of the wearer. The short- and long-term consequences of contact lens wear are considered, with particular emphasis on the ocular response to the wearing of the various lens types. The added complication of RGP, toric, bifocal and multifocal contact lenses is also covered  
MODE OF ASSESSMENT:  
One 2 hr. at end of module - 60%  
Two in course exams - 20%  
Practical Coursework - 20%  

LEVEL:  
SEMESTER:  
COURSE CODE: OPTM 3012  
COURSE TITLE: OCULAR AND SYSTEMIC DISEASE II  
NUMBER OF CREDITS: 3  
PRE-REQUISITES: OPTM 1011, OPTM 1012, OPTM 1021, OPTM 1022, OPTM 2021, OPTM 2022, OPTM 2031, OPTM 2042  
CO-REQUISITES: NONE  
COURSE DESCRIPTION:  
MODE OF ASSESSMENT:  
One 2 hr. at end of module - 60%  
Two in course exams - 20%  
Practical Coursework - 20%
LEVEL:  
SEMESTER:  
COURSE CODE:  OPTM 3072  
COURSE TITLE:  LAW AND OPTOMETRIC MANAGEMENT  
NUMBER OF CREDITS:  3  
PRE-REQUISITES:  NONE  
CO-REQUISITES:  NONE  
COURSE DESCRIPTION:  
An overview of the development of the profession of optometry and the current state of the optical market. An introduction to setting up a practice and the key elements in running a successful business including a business plan, marketing strategy, effective communication and basic accounting. An introduction to Trinidad and Tobago law, particularly the laws of contract, tort and negligence and the way they impact optometrists. A detailed look at Opticians Act and other legislation regulating the profession, the professional bodies and professional standards and the rules regarding disciplinary action. Optometry within the National Health Service/Regional Health Authorities and the current and future roles of Optometry in provision of health care. The course will also include details on referral and case record keeping, employment law vocational vision standards and safety spectacle requirements. Visual ergonomics: Ocular hazards and control.  
MODE OF ASSESSMENT  
One 2 hr. at end of module - 80%  
Two in course exams - 20%  

LEVEL:  
SEMESTER:  
COURSE CODE:  OPTM 3082  
COURSE TITLE:  RESEARCH PROJECT (6 CREDITS)  
NUMBER OF CREDITS:  
PRE-REQUISITES:  NONE  
CO-REQUISITES:  NONE  
COURSE DESCRIPTION:  
Initial lectures will explain to the students what is required of them in this module. These lectures will clarify the required format for the research report/dissertation; cover basic research methodology and outline suitable routes for information retrieval. Students will then either be allotted or asked to choose from research projects/dissertation titles forwarded by individual members of staff. Once members of staff have been allocated students, they will convey information relevant to the students’ needs by use of seminar or personal tuition or directed reading. Students should collate and study works relevant to their own research area throughout the semester. Students involved in research projects should carry out pilot experiments to ensure project viability. In the case of Research Projects, students will be introduced to experimental techniques and analysis of the data obtained. Findings will be compiled in an appropriate scientific style including Abstract, Introduction, Methods, Results and Discussion.  
For dissertations, a comprehensive literature survey will be conducted. A summary and critical analysis of previous research in the relevant subject area will be undertaken.  
MODE OF ASSESSMENT  
100%. 5000 – 10,000 word research report or dissertation to be submitted no later than week 12 of Semester 2.
LEVEL: 4.
YEAR 4 OPTOMETRY

OBJECTIVES
Year 4 shall consist of twelve (12) continuous months of clinical work aimed at honing in the skills, developing the professionalism and enabling the pre-registrant to be fully seized of ethics required of the Optometrist.

LEARNING OUTCOMES
Upon completion of the Pre-registration Year, the student will be fully seized of the professional and ethical aspects of the optometry profession and shall have the scientific and clinical competence to deal with all primary eye care problems that are legally under the purview of the optometry profession in the Caribbean region and in addition will have the capacity to be trained to function anywhere in the international/global environment.

CLINICAL EXPERIENCE
Clinical experience will be obtained via three methods:
- Walk-in clinic of the Optometry Department at health centres
- Eye clinics in the public hospital environment
- Occasional Private eye clinics where adequate supervision is guaranteed.

AREAS OF EXPERTISE TO BE ENHANCED
- Refraction
- Binocular vision and Orthoptics
- Low vision
- Contact lens
- Ocular Pharmacology
- Investigative Techniques
- Cycloplegics
- Ocular and Systemic related pathology
- Observation of surgical procedures
- Case records
- Dispensing
- Occupational Health and Safety
- Jurisprudence and ethical considerations
- Business practice
- Communications

OTHER WORK
In addition to the Clinical work there shall be special lectures aimed at assisting the student in preparing for registration examinations.

MODE OF ASSESSMENT
Continuous Assessment (50%)
Competency based continuous workplace assessments in all areas of expertise (20%)
Log book (10%)
Monthly quizzes (20%)

FINAL ASSESSMENT (50%)
The final examination shall consist of four sections, all of which must be passed:
- Clinical Science, the profession, law and communications (2 three hour papers)
- Diagnosis and Management (1 three hour paper)
- Skills Testing. Candidates will be required to demonstrate their skills at a number of stations
- Patient examination in a clinical setting. The candidate will do a full examination of four (8) patients and must pass a minimum of seven (7) out of the 8 full patient examinations.

LEVEL: 0
SEMESTER: 1
COURSE CODE: PHYS 0070
COURSE TITLE: PRELIMINARY PHYSICS I
NUMBER OF CREDITS: 0
PREREQUISITES: CSEC PHYSICS OR EQUIVALENT.

COURSE DESCRIPTION: Mechanics, Heat and Waves & Sound.
- SI system and standard units, dimensional analysis, vectors (graphical analytical);
- Equilibrium, Newton’s first law, third law, friction, motion in a straight line, average and instances velocity and acceleration, accelerated motion, free fall.
- Relative velocity; motion in a plane, projectiles, circular motion, centripetal force, Newton’s second law and applications;
- Gravitation, mass and weight, satellite motion;
- Work and kinetic energy, gravitational and elastic potential energy, dissipative and conservative forces, power, equilibrium; Stress, strain, elastic moduli, force constant, Hooke’s law, simple harmonic motion (basic concepts), SHM and circular motion, mass-spring system, simple pendulum, pressure in a fluid, pressure gauges. Archimedes principle, surface tension, pressure difference across surface film, contact angle and capillaries. Bernoulli’s equation (applications), viscosity, Stoke’s law, Reynold’s number.
- The temperature concept, thermometers, scales, thermal expansion and stress; Heat capacity, phase changes, conduction, convection, radiation, Stefan-Boltzman law, ideal radiator, solar energy, ideal gas, equation of state, phase diagrams, triple and critical points, vapour pressure, effect of dissolved substances on freezing and boiling point, first law of thermodynamics, energy and work, work and heat, adiabatic, isochoric, isothermal and isobaric processes, internal energy, molecular theory of motion, kinetic theory of ideal gas.
- Mechanical waves, periodic waves, wave speed, traveling waves, mathematical representation, waves at boundaries, standing waves, interference of sound waves, beats, sound intensity, the decibel, the ear and hearing, quality and pitch, Doppler effect, ultrasonics and applications.

ASSESSMENT:
- Theory Coursework 10%
- Practical Coursework 30%
- One 3-hour Final Examination 60%
- Students must pass coursework.
LEVEL: 0
SEMESTER: 2
COURSE CODE: PHYS 0071
COURSE TITLE: PRELIMINARY PHYSICS II
NUMBER OF CREDITS: 0
PREREQUISITES: CSEC PHYSICS OR EQUIVALENT.
COURSE DESCRIPTION: Electricity and Magnetism, Optics and Modern Physics Charge, Coulomb's law, insulators and conductors, electric field, lines of force, electric potential, potential differences, electron volt (Millikan's experiment, ). Capacitance, series and parallel combination, energy in a charged capacitor, dielectrics, current, resistivity, resistance, EMF, work and power, resistors in series and parallel, Kirchoff's laws, Wheatstone bridge and potentiometer. The magnetic field, lines of force, magnetic flux, motion in a magnetic field. Thomson's measurement of e/m, isotopes and spectrography; force on conductor, torque on a current loop, the d.c. motor, pivoted-coil galvanometer, magnetic field of a long straight wire, force between parallel conductors, the ampere, induced emf, Faraday's law, Lenz's law, eddy currents. The nature of light, speed of light (experimental), waves and rays, refraction and reflection. Snell's law, total internal reflection, dispersion, single surface images, reflection from plane and spherical surfaces, focal point and length, refraction at plane and spherical surfaces, graphical and analytical methods, images and objects, thin lens, diverging lens, lensmaker equation, aberrations, the eye, defects of vision, magnifier, camera projector, compound microscope, telescope, etc. Atomic nucleus, nuclear radiation, isotopes and isobars, binding energy and stability; alpha, beta and gamma rays, decay law, half-life, decay constant, activity, radioactivity series, nuclear reactions, nuclear fission, nuclear fusion, radioactive shielding, radiation and the life sciences.

ASSESSMENT:
Theory coursework 10%
Practical coursework 30%
One 3-hour Final Examination 60%
Students must pass coursework

LEVEL: I
SEMESTER: 1
COURSE CODE: PHYS 1110
COURSE TITLE: INTRODUCTORY PHYSICS I
NUMBER OF CREDITS: 6
PREREQUISITES: CAPE PHYSICS OR CSEC PHYSICS TOGETHER WITH CAPE MATHEMATICS.
COURSE DESCRIPTION: Mathematical Methods in Physics: Vectors; Complex numbers; Matrices and Determinants. Applications to Physics. Mechanics: Units and dimensions; Particle dynamics, Work and Energy; Conservation of mass, energy and momentum; Rotation kinematics; Equilibrium of rigid bodies; Oscillations; Gravitation; Properties of fluids; Fluid statics and dynamics. Optics: Reflection and refraction; Fermat's principle; Huygen's principle; Interference and Diffraction. Acoustics: waves in Elastic media; Acoustics and wave motion; Superposition and Interference of Waves.

ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 3-hour Final Examination 60%
Students must pass coursework

LEVEL: I
SEMESTER: 2
COURSE CODE: PHYS 1111
COURSE TITLE: INTRODUCTORY PHYSICS II
NUMBER OF CREDITS: 6
PREREQUISITES: CAPE PHYSICS OR CSEC PHYSICS TOGETHER WITH CAPE MATHEMATICS.
COURSE DESCRIPTION: Electricity and Magnetism: Electric Charge, Electric Field; Gauss's Law; Electric Potential; Capacitors and dielectrics; Currents in materials; Direct-current circuits; Effects, production and properties of Magnetic Fields; Faraday's Law; Inductance; Introduction to B, H and M vectors. AC Theory: AC currents/voltages; AC in series and parallel LCR circuits; Vector, phasor and complex representation; Q factor; power; Transformers; Modern Physics: Black body radiation, Thermal radiation; Stefan's, Wein's and Rayleigh-Jean's Laws; Quanta; Planck's Law; Photoelectric effect; Davisson-Germer and Thomson's experiments; The Atom; Atomic spectra; Energy levels and the Hydrogen Atom; Bohr model; X-rays; Moseley's Law. Thermodynamics: Thermal equilibrium; Triple point; Work; Heat; First Law of Thermodynamics; Applications of First Law; Heat capacities; Equipartition of energy; Ideal gas; Kinetic Theory; Heat conduction; application to spherical and cylindrical symmetry.

ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 3-hour Final Examination 60%
Students must pass coursework

LEVEL: I
SEMESTER: 1
COURSE CODE: PHYS 1001
COURSE TITLE: INTRODUCTION TO ASTRONOMY
NUMBER OF CREDITS: 3
PRE -REQUISITES: NONE
RESTRICTIONS: STUDENTS READING PHYS 3383 CANNOT BE CREDITED WITH THIS COURSE.
COURSE DESCRIPTION: This course develops the ideas of Ancient Astronomy leading up to the contributions of Copernicus, Brahe, Galileo and Newton. Optics and instrumentation. The solar system, stars: composition and evolution, white dwarfs, neutron stars, black holes. Extragalactic Astronomy: Galaxies, dark matter, dark energy, Cosmology. Life in the Universe.

ASSESSMENT:
Coursework 40%
One 2- hour Final Examination 60%
LEVEL: II
SEMESTER: 1
COURSE CODE: PHYS 2280
COURSE TITLE: MATHEMATICAL METHODS IN PHYSICS
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 1110 OR PHYS 1111.
COURSE DESCRIPTION: Distribution functions, Sampling theory. Applications in Physics. Cartesian and Curvilinear Coordinate Systems. Vector analysis; Complex variable theory; Fourier series analysis; Differential equations, up to second order. Applications in Physics.
ASSESSMENT:
Theory Coursework 40%
One 2-hour Final Examination 60%

LEVEL: II
SEMESTER: 1
COURSE CODE: PHYS 2281
COURSE TITLE: MODERN PHYSICS I
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 1110 AND PHYS 1111
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework

LEVEL: II
SEMESTER: 1
COURSE CODE: PHYS 2290
COURSE TITLE: INTRODUCTION TO MEDICAL PHYSICS AND BIOENGINEERING
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 1110 AND PHYS 1111.
COURSE DESCRIPTION: The structure, function, properties and physics of bone, muscles, cardiovascular system and the nervous system. Feedback and control systems in the body and homeostasis. Biomedical potentials, electro-oculogram, electrocardiogram, electromyogram, electroencphalogram and magnetocardiogram. The visual system and the auditory system.
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework

LEVEL: II
SEMESTER: 2
COURSE CODE: PHYS 2282
COURSE TITLE: CIRCUIT THEORY AND ELECTRONICS
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 1110 AND PHYS 1111 OR (MATH 1140 AND MATH 1150 & COMP 1100 AND COMP 1200 OR MATH 1160 AND MATH 1170
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework
LEVEL: II
SEMESTER: 1
COURSE CODE: PHYS 2291
COURSE TITLE: DIGITAL ELECTRONICS
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 1110 AND PHYS 1111 OR MATH 1140 AND MATH 1150 AND COMP 1100 AND COMP 1200 OR MATH 1160 AND MATH 1170
COURSE DESCRIPTION: Components and Devices: Basic theory and application of electronic and opto-electronic components such as zener diodes, SCR, LEDs, LDs, optical receivers, optical fibre. Digital electronics: Comparison of analogue and digital systems, Boolean Algebra, Basic logic functions NOT, AND, OR. Duality. Computational rules of logic algebra. Generalised logical system, inputs and outputs, variables, NAND, NOR, EXCLUSIVE OR, Combinational logical systems. Simplification of logical equations. KV tables up to four variables. Number system, codes, coding. Introduction to sequential systems.
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework

LEVEL: II
SEMESTER: 1
COURSE CODE: PHYS 2292
COURSE TITLE: METEOROLOGY, CLIMATOLOGY AND POLLUTION
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 1110 AND PHYS 1111
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework

LEVEL: II
SEMESTER: 2
COURSE CODE: PHYS 2293
COURSE TITLE: FUNDAMENTALS OF GEOPHYSICS
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 1110 AND PHYS 1111
COURSE DESCRIPTION: Physics of the Earth: The geoid; Earth’s internal structure and origin; the Earth-Moon system, volcanoes. Earth’s magnetic field and its origin; paleo-magnetism. Terrestrial heat flow. Introduction to Geophysical Prospecting: A general survey of prospecting techniques with a brief account of relevant physical properties of rocks. Seismic, Gravity, Magnetic and Resistivity methods. Seismic digital data acquisition and processing will be introduced. Geophysical Interpretation.
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework

LEVEL: II
SEMESTER: 1
COURSE CODE: PHYS 2294
COURSE TITLE: MATERIALS SCIENCE
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 1110 AND PHYS 1111
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework
LEVEL: II
SEMESTER: 2
COURSE CODE: PHYS 2295
COURSE TITLE: LASERS AND SOLAR ENERGY
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 1110 AND PHYS 1111
SOLAR ENERGY: General overview, historical perspective. Solar energy utilization, flat plate collectors, solar cells, concentrating collectors, OTEC, Construction and operating principles of a solar collector. Optical characteristics, heat transfer characteristics, methods of calculating efficiency. Mathematical analysis of a solar collector as applied to a selected unit.
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework

LEVEL: III
SEMESTER: 2
COURSE CODE: PHYS 3381
COURSE TITLE: MODERN PHYSICS II
NUMBER OF CREDITS: 4
PREREQUISITE: PHYS 1110 AND PHYS 1111
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass practical coursework.
LEVEL: III
SEMESTER: 2
COURSE CODE: PHYS 3384
COURSE TITLE: THERMODYNAMICS AND SOLID STATE PHYSICS
NUMBER OF CREDITS: 4
PREREQUISITE: PHYS 1110 AND PHYS 1111
COURSE DESCRIPTION: Thermodynamics: Heat; work; First and Second Laws of thermodynamics - applications; engines; refrigerators; entropy; Maxwell's relations; Liquefaction of gases; Joule-Thomson effect; thermodynamic potentials; magneto-thermal relations; thermodynamic applications. Solid State: Structure of solids; elementary crystallography and crystal diffraction; free electron theory of metals; energy band theory; semiconductors; superconductivity.
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework

LEVEL: III
SEMESTER: 1
COURSE CODE: PHYS 3385
COURSE TITLE: ELECTROMAGNETIC THEORY & APPLICATIONS
NUMBER OF CREDITS: 4
Prerequisite: PHYS 1110, PHYS 1111 and PHYS 2280
COURSE DESCRIPTION: Electric fields In matter; polarization, the field of a polarized material; the electric displacement; linear and non-linear dielectrics. Magnetic fields In matter; magnetisation; the field of a magnetised material; the auxiliary field H. linear and non-linear media. Electrodynamics: Maxwell's equations; conservation laws (the continuity equation, Poynting's theorem, momentum); electromagnetic waves. Transmission lines: simple lossless system; Smith chart; transmission line matching. Wave guides: the parallel plane system; TE, TM and TEM modes; rectangular wave guides; resonators. Antenna Theory: Elementary theory of electric and magnetic dipole radiation. Practical radiating systems.
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour paper Final Examination 60%
Students must pass coursework

LEVEL: III
SEMESTER: 2
COURSE CODE: PHYS 3387
COURSE TITLE: RESEARCH PROJECT
NUMBER OF CREDITS: 4
PREREQUISITE: AVAILABLE ONLY TO PHYSICS MAJORS
COURSE DESCRIPTION: A research project in some topic in Physics or a related area and may include experimental work in the laboratory and the field.
ASSESSMENT:
Dissertation Report 40%
Performance 40%
Oral Presentation 20%

LEVEL: III
SEMESTER: 1
COURSE CODE: PHYS 3389
COURSE TITLE: FURTHER MEDICAL PHYSICS AND BIOENGINEERING
NUMBER OF CREDITS: 4
PREREQUISITE: PHYS 1110 AND PHYS 1111
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework

LEVEL: III
SEMESTER: 2
COURSE CODE: PHYS 3390
COURSE TITLE: FURTHER DIGITAL ELECTRONICS AND MICROPROCESSOR SYSTEMS
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 2291
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework.
LEVEL: III
SEMESTER: 1
COURSE CODE: PHYS 3392
COURSE TITLE: PHYSICAL OCEANOGRAPHY AND GEOHYDROLOGY
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 1110 AND PHYS 1111
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework.

LEVEL: III
SEMESTER: 2
COURSE CODE: PHYS 3393
COURSE TITLE: EARTH MATERIALS, EARTH PROCESSES AND SEISMOLOGY
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 1110 AND PHYS 1111
COURSE DESCRIPTION: Earth Processes and Caribbean Stratigraphy: Properties of minerals and crystals; composition, occurrence, distribution, classification and field recognition of igneous, sedimentary and metamorphic rocks; tectonic and structural features of the earth; volcanic activity; formation of soils and sediments; stratigraphy and geologic time; plate tectonics. The Caribbean environment in relation to man, water supply, soils, petroleum, engineering geology, minerals.
Introduction to Earth Materials: The origin, occurrence, world distribution and development of major earth resources - metalliferrous and nonmetal ores, petroleum, coal building materials, chemical raw materials, bio mass resources. Earth Seismology: The nature of earthquakes; the propagation and detection of seismic waves; geographical distribution of earthquakes; surface effects of earthquakes, earthquake history of the Caribbean.
ASSESSMENT:
Theory Coursework 10%
Practical Coursework 30%
One 2-hour Final Examination 60%
Students must pass coursework.

LEVEL: III
SEMESTER: 2
COURSE CODE: PHYS 3394
COURSE TITLE: FURTHER MATERIALS SCIENCE
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 2294
ASSESSMENT:  
Theory Coursework 10%  
Practical Coursework 30%  
One 2-hour Final Examination 60%
Students must pass coursework

LEVEL: III
SEMESTER: 2
COURSE CODE: PHYS 3395
COURSE TITLE: THIN FILMS AND VACUUM PHYSICS
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 2294
ASSESSMENT:  
Theory Coursework 10%  
Practical Coursework 30%  
One 2-hour Final Examination 60%
Students must pass coursework

LEVEL: III
SEMESTER: 1
COURSE CODE: PHYS 3396
COURSE TITLE: CERAMICS
NUMBER OF CREDITS: 4
PREREQUISITES: PHYS 1110 AND PHYS 1111
COURSE DESCRIPTION: Typical properties and engineering applications; Crystal structures; Processing of Ceramics; Ceramic microstructures; Mechanical, thermal, electrical and magnetic properties; cements and concrete; Ceramic coating.
ASSESSMENT:  
Theory Coursework 10%  
Practical Coursework 30%  
One 2-hour Final Examination 60%
Students must pass coursework
LEVEL: I
SEMESTER: 1
COURSE CODE: PSYC 1003
COURSE TITLE: INTRODUCTION TO PSYCHOLOGY
NUMBER OF CREDITS: 3
PREREQUISITES:
COURSE DESCRIPTION: This course deals with basic concepts in psychology. It also seeks to illustrate how these concepts and their related theories can be linked to social, educational and political issues.
ASSESSMENT:
Final Examination 100%

LEVEL: II
SEMESTER: 1
COURSE CODE: PSYC 2011
COURSE TITLE: SELECTED THEORIES IN SOCIAL PSYCHOLOGY
NUMBER OF CREDITS: 3
PREREQUISITES: PS14A OR PS11B
COURSE DESCRIPTION: A survey of selected theories in social psychology and the methods used to examine social psychological concepts. Emphasis is on the interactionist dynamics of social psychology examining socialisation, conformity, cognitive dissonance, attitude formation and change, prejudice and race relations, leadership and interpersonal relations.
ASSESSMENT:
Final Examination 100%

* Highly recommended for students without A' level Chemistry or equivalent. This course is not part of the degree option.

LEVEL: I
SEMESTER: 2
COURSE CODE: VART 1406
COURSE TITLE: COLOUR AND MATERIALS
PREREQUISITE: NONE
NUMBER OF CREDITS: 3
COURSE DESCRIPTION: This is a studio course. It introduces experimentation and theoretical study of colour, art and design media and materials.
ASSESSMENT:
Coursework 100%

* Studio attendance and participation
Portfolio and coursework journal

SEMESTERS: I AND II
COURSE CODE: VART 2401 (SEMESTER I) AND VART 2402 (SEMESTER II)
COURSE TITLE: LANDSCAPE DESIGN 1 AND LANDSCAPE DESIGN 2
NUMBER OF CREDITS: 3 EACH
PRE-REQUISITES: DESIGN AND COMMUNICATION STUDIO 1 AND 2
COURSE DESCRIPTION: This course offers a continuation of practical studies in the design process of problem solving as it applies to tropical landscaping. Students will learn concept visualization based on techniques of visual communication and design, exploration of sources of design innovation, the study of materials for appropriate use and context in built and natural environments. This course is taught over two sequential semesters and examines the context of landscape through field trips and visual analysis of its features. Practical experience in visual description, documentation and analysis will be developed in modules of theory and practical study.
ASSESSMENT:
Coursework 100%

LEVEL: I
SEMESTER: 1
COURSE CODE: VART 1404
COURSE TITLE: INFORMATION COMMUNICATION TECHNOLOGY AND DESIGN FOUNDATIONS
NUMBER OF CREDITS: 3
PREREQUISITES: NONE
COURSE DESCRIPTION: This is a studio course. The emphasis of course is to provide art and design foundation for further experimentation and creative work. It concentrates on the study of the fundamental elements and principles of art and design in the studio practices of artists and designers. This course encourages the application of cultural, scientific and critical studies in exploration of methods for creating 2 and 3-dimensional forms. Course introduces Information and Communication Technology as a tool for research and presentation of group and individual projects.
ASSESSMENT:
Coursework 100%
## Appendix 2 - Pre-Requisite Listing for Cross Faculty Courses

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1002</td>
<td>Introduction to Financial Accounting</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>This course is Not offered to these students</td>
<td>NONE</td>
<td>NONE</td>
<td>None</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>ACCT 1003</td>
<td>Introduction to Cost and Managerial Accounting</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>This course is Not offered to these students</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>ACCT 2017</td>
<td>Management Accounting</td>
<td>ACCT 1002/MS15E - Introduction to Financial Accounting AND ACCT 1003/MS15F - Introduction to Cost and Managerial Accounting</td>
<td>This course is Not offered to these students</td>
<td>ACCT 1002 and ACCT 1003</td>
<td>This course is Not offered to these students</td>
<td>ACCT 1002 and ACCT 1003</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>ECON 1001</td>
<td>Introduction to Economics I</td>
<td>NONE</td>
<td>None</td>
<td>None</td>
<td>This course is Not offered to these students</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>ECON 1002</td>
<td>Introduction to Economics II</td>
<td>NONE</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>None</td>
<td>This course is Not offered to these students</td>
<td>None</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>Banner Code</td>
<td>Title</td>
<td>FSS Prerequisites</td>
<td>FSA B.Sc. Chemistry &amp; Management Prerequisites</td>
<td>FSA B.Sc. Agribusiness Management Prerequisites</td>
<td>FSA Major in Agribusiness Prerequisites</td>
<td>FSA Computer Science &amp; Management Prerequisites</td>
<td>FSA B.Sc. Human Nutrition &amp; Dietetics Prerequisites</td>
<td>FSA Major in Foods &amp; Food Service Management Prerequisites</td>
<td>FSA Minor in Entrepreneurship Prerequisites</td>
<td>FSA Minor in Sports Nutrition Prerequisites</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------</td>
<td>-------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>ECON 1005</td>
<td>Introduction to Statistics</td>
<td>NONE</td>
<td>NONE</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>ECON 2000</td>
<td>Intermediate Microeconomics I</td>
<td>ECON 1003/EC101 - Introduction to Economics I, ECON 1002/EC10F - Introduction to Economics II AND ECON 1003/EC141 - Introduction to Mathematics I</td>
<td>AGBU 1005 OR ECON 1001 AND AGR 1003 OR ECON 1003 AND AGBU 1006 OR ECON 1002</td>
<td>AGBU 1005 OR ECON 1001 AND AGR 1003 OR ECON 1003 AND AGBU 1006 OR ECON 1002</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MGMT 2003</td>
<td>Principles of Marketing</td>
<td>ACCT 1002/MS15E - Introduction to Financial Accounting and ECON 1001/EC10D - Introduction to Economics I</td>
<td>ACCT 1002 and ECON 1001 or AGBU 1005</td>
<td>ACCT 1002 and ECON 1001 or AGBU 1005</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MGMT 2006</td>
<td>Management Information Systems I</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MGMT 2007</td>
<td>Introduction to E-Commerce</td>
<td>MGMT 2003/MS20A - Principles of Marketing AND MGMT 2006/MS21B - Management Information Systems I</td>
<td>MGMT 2003 and MGMT 2006</td>
<td>MGMT 2003 and MGMT 2006</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------</td>
<td>--------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>MGMT 2008</td>
<td>Organisational Behaviour</td>
<td>SOCI 1002/ SY13E - Introduction to Sociology I OR MGMT 1001/MS12A - Introduction to Management</td>
<td>MGMT 1001 or SOCI 1002 or AGEX 1000</td>
<td>MGMT 1001 OR SOCI 1002 OR AGEX 1000</td>
<td>This course is Not offered to these students</td>
<td>MGMT 1001 OR SOCI 1002 OR AGEX 1000 OR COMP 1100</td>
<td>MGMT 1001 OR SOCI 1002 OR AGEX 1000 OR HUEC 1003</td>
<td>MGMT 1001 OR SOCI 1002 OR AGEX 1000 OR HUEC 1003</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MGMT 2009</td>
<td>Sociology of Sports</td>
<td>MGMT 1001/ MS12A - Introduction to Management OR SOCI 1002/SY13E - Introduction to Sociology I</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>MGMT 1001 OR SOCI 1002 OR AGEX 1000</td>
</tr>
<tr>
<td>MGMT 2010</td>
<td>Introduction to Sport Management</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>NONE</td>
</tr>
<tr>
<td>MGMT 2012</td>
<td>Quantitative Methods</td>
<td>ECON 1002/EC10F - Introduction to Economics II AND ECON 1003/EC141 - Introduction to Mathematics I</td>
<td>ECON 1001 and CHEM 1060 – Intro to Chemistry I</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>ECON 1002 and MATH 1140</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MGMT 2021</td>
<td>Business Law</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>MGMT 2022</td>
<td>The Law and Sports</td>
<td>MGMT 2010/MS22M - Introduction to Sport Management AND Normally open to students pursuing the Sports Management Minor</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>MGMT 2010</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------</td>
<td>-----------------------------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-------------------------------------------------</td>
<td>--------------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-------------------------------------------------</td>
<td>-------------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>MGMT 2023</td>
<td>Financial Management I</td>
<td>ACCT 1002/MS25E - Introduction to Financial Accounting AND ECON 1003/EC141 -Introduction to Mathematics I</td>
<td>ACCT 1002 and OR CHEM 1060</td>
<td>ACCT 1002 and ECON 1003 OR AGRI 1003</td>
<td>ACCT 1002 and ECON 1003 OR AGRI 1003</td>
<td>ACCT 1002 and MATH 1140</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MGMT 2032</td>
<td>Managerial Economics</td>
<td>ECON 1001/EC10D - Introduction to Economics I AND ECON 1003/EC141 -Introduction to Mathematics I</td>
<td>ECON 1001 and CHEM 1060 - Introductory Chemistry I</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>ECON 1001 and MATH 1140</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MGMT 3011</td>
<td>Management Information Systems II</td>
<td>MGMT 2006/MS21B - Management Information Systems I</td>
<td>This course is Not offered to these students</td>
<td>MGMT 2006</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MGMT 3017</td>
<td>Human Resource Management</td>
<td>MGMT 2008/MS22A - Organisational Behaviour</td>
<td>MGMT 2008</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MGMT 3027</td>
<td>Sport Marketing and Public Relations</td>
<td>MGMT 2003/MS20A - Principles of Marketing</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td></td>
</tr>
<tr>
<td>MGMT 3030</td>
<td>Small Business Management (NOT BEING OFFERED THIS YEAR)</td>
<td>MGMT 2008/MS22A - Organisational Behaviour, MGMT 2003/MS20A - Principles of Marketing AND MGMT 2023/MS28D -Financial Mt I</td>
<td>This course is Not offered to these students</td>
<td>MGMT 2008 and MGMT 2003 and MGMT 2023</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>Banner Code</td>
<td>Title</td>
<td>FSS Prerequisites</td>
<td>FSA B.Sc. Chemistry &amp; Management Prerequisites</td>
<td>FSA B.Sc. Agribusiness Management Prerequisites</td>
<td>FSA Major in Agribusiness Prerequisites</td>
<td>FSA Computer Science &amp; Management Prerequisites</td>
<td>FSA B.Sc. Human Nutrition &amp; Dietetics Prerequisites</td>
<td>FSA Major in Foods &amp; Food Service Management Prerequisites</td>
<td>FSA Minor in Entrepreneurship Prerequisites</td>
<td>FSA Minor in Sports Nutrition Prerequisites</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------------</td>
<td>------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>------------------------------------------</td>
<td>---------------------------------------------</td>
<td>-------------------------------------------------</td>
<td>-------------------------------------------------</td>
<td>-------------------------------------------------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>MGMT 3032</td>
<td>Entrepreneurial Studies</td>
<td>MGMT 2008/MS22A - Organisational Behaviour, MGMT 2023/MS28D - Financial Management I</td>
<td>This course is Not offered to these students</td>
<td>MGMT 2008 and MGMT 2023</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>MGMT 2008 and MGMT 2023</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MGMT 3057</td>
<td>Production and Operations</td>
<td>MGMT 2012/MS23C - Quantitative Methods</td>
<td>MGMT 2012</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MGMT 3060</td>
<td>Operations, Planning and Control</td>
<td>MGMT 3057/MS39M - Production and Operations</td>
<td>MGMT 3057</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MkTG 3000</td>
<td>Marketing Management</td>
<td>MGMT 2003/MS20A - Principles of Marketing</td>
<td>MGMT 2003</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>MGMT 2003</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>MkTG 3007</td>
<td>Marketing Planning</td>
<td>MGMT 2003/MS20A - Principles of Marketing, MGMT 2012/MS23C - Quantitative Methods, AND MGMT 2023/MS28D - Financial Management I</td>
<td>MGMT 2003, MGMT 2012, MGMT 2023</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>PSYC 1004</td>
<td>Introduction to Social Psychology</td>
<td>NONE</td>
<td>NONE</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>NONE</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------</td>
<td>-------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>PSYC 2011</td>
<td>Selected Theories in Social Psychology</td>
<td>PSYC 1003/PS14A - Introduction to Psychology OR PSYC 1004/PS18B - Introduction to Social Psychology</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>PSYC 1003 OR PSYC 1004</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 2012</td>
<td>Developmental Psychology</td>
<td>PSYC 1003/PS14A - Introduction to Psychology OR PSYC 1004/PS18B - Introduction to Social Psychology</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>PSYC 1003 OR PSYC 1004</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOCI 1002</td>
<td>Introduction to Sociology I</td>
<td>NONE</td>
<td>NONE</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td>This course is Not offered to these students</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOCI 3005</td>
<td>Sociology of Health and Illness</td>
<td>SOCI 1002/SY13E - Introduction to Sociology I OR SOCI 1000/SY13F - Introduction to Sociology II, SOCI 2000/ SY20E - Classical Social Theory OR SOCI 2001/ SY20F - Modern Social theory</td>
<td>This course is Not offered to these students</td>
<td>AGEX 1000 and SOCI 2000 OR SOCI 2001</td>
<td>This course is Not offered to these students</td>
<td>AGEX 1000 and SOCI 2000 OR SOCI 2001</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>