



**University of Technology, Jamaica
Faculty of the Built Environment
School of Building & Land Management
Division of Land Surveying & Geographic Information Sciences**



ACADEMIC DIET
for
**Bachelor of Science Degree in
Surveying & Geographic Information Sciences**

Academic Year 2015/16

Academic Diet for BSc in Surveying & Geographic Information Science (BSc SGIS) AY 2014/15

LEVEL 1 - Semesters 1, 2 & 3

LEVEL 1 - Semester 1	Code	Credit
1. Plane Surveying 1	SGI1001	4
2. Elementary Cartography	SGI1002	3
3. Physics	PHS1009	4
4. College Maths 1B (Offered in all semesters)	MAT1047	4
5. Information Technology (Offered in all semester. May be offered online)	INT1001	3
6. Academic writing 1 (pre-requisite is a PASS in English Proficiency Test or Developmental English(COM0001))	COM1020	3
		21

LEVEL 1 - Semester 2	Code	Credit
Plane Surveying 2 (Must first take SGI1001)	SGI1003	4
Introduction to CADD for Land Surveyors (Must first take INT1001, offered in all semesters)	SGI1010	2
Introduction to Construction Technology (Faculty Core offered in Semesters 1 & 2)	COT1019	3
Calculus 1 (Must first take MAT1047. Offered in Semesters 1 & 2)	MAT2003	3
Environmental Geography	SGI1004	3
Introduction to Sociology (Offered in Semesters 1 & 2 and maybe 3)	SOC1001	3
Community Service Project (offered in semesters 1 & 2)	CSP1001	1
		19

LEVEL 1 - Summer Session	Code	Credit	
Surveying Practicum I (Must first take SGI1001 & SGI1003 OR SGI1006, SGI1008, SGI1007, SGI1009. This module must be taken in the summer and attracts additional fees)	SGI1005	3	This module consists of a two-week residential camp followed by two weeks of on campus lab-based exercises then a panel assessment.
		3	

Total Credit Count for Level 1 : 43

NOTE: Core modules are highlighted. These modules should be selected first during online enrolment.

LEVEL 2 - Semesters 1 & 2

LEVEL 2 - Semester 1	Code	Credit
Computer Applications in Surveying 1 (Must first take SGI1010)	SGI2001	2
Geodetic Surveying (Must first take MAT1047 & SGI1003)	SGI2002	3
Surveying Adjustments (Must first take MAT2003 & SGI1003 & must at least taking STA2020))	SGI2003	2
Land Law 1	LAW2003	2
Academic writing 2 (Must first take COM1020)	COM2014	3
Mathematics for Geomatics (Must first take MAT2003)	MAT2048	4
Introductory statistics	STA2020	3
		19

LEVEL 2 - Semester 2	Code	Credit
Digital Cartography (Must first take SGI1002)	SGI2004	3
Surveying Practicum 2 (Must first take SGI2002)	SGI2006	2
Computer Applications In Surveying II (Must have taken SGI1010)	SGI2007	2
Electronic Surveying Instrumentation (Must first take PHS1009)	SGI2008	3
Photogrammetry I	SGI2009	3
Engineering Surveying I (Must have taken SGI1003 & MAT1047)	SGI2010	3
Land Law II (Must first take LAW2003)	LAW3007	3
		19

Total Credit Count for Level 2: 38

NOTE: Core modules are highlighted. These modules should be selected first during online enrolment.

LEVEL 3 - Semesters 1 & 2

LEVEL 3 - Semester 1	Code	Credit
Photogrammetry II (Must have taken SGI2009)	SGI3004	3
Geodesy (Must have taken SGI2002)	SGI3005	3
Land Administration & registration (Must have taken LAW3007)	SGI3006	3
Spatial Development Planning	SGI3017	3
University Elective (Select one module from an extensive list)		3
Entrepreneurship	ENT3001	3
		18

LEVEL 3 - Semester 2	Code	Credit
Research Methodologies (Must at least be a level 3 student)	RES3001	3
Land Economics & Intro to Valuations	SGI3001	2
Engineering Surveying II (Must have first taken SGI2010)	SGI3007	3
Global Navigation Satellite Systems I	SGI3008	3
Hydrographic Surveying	SGI3009	2
Land & Geographic Information Systems I	SGI3011	3
		16

LEVEL 3 - Summer Session	Code	Credit	Comment
Surveying Practicum III (Pre-requisites : GNSS I, Hydro Surveying, Photogrammetry II)	SGI3010	3	Two weeks of field work plus two weeks of lab-work followed by a panel interview.
		3	

Total Credit Count for Level 3: 37

NOTE: Core modules are highlighted. These modules should be selected first during online enrolment.

LEVEL 4 - Semesters 1 & 2

LEVEL 4 - Semester 1	Code	Credit
Project management for Land Surveying & GIS	SGI4024	2
Satellite Remote Sensing	SGI4002	2
Global Navigation Satellite System Surveying 2 (Must have first taken SGI3008)	SGI4003	2
Land & Geographic Information Systems 2 (Must first take SGI3011)	SGI4004	3
School Elective. Choose one of the following modules: Environmental Impact Studies & Analysis (URP4015) Rural Development Planning (URP4016) Urban Governance (URP4009); Occupational Health & Safety (to be added)	URP4009 or URP4015 or URP4016	3
		12

LEVEL 4 - Semester 2	Code	Credit
Research Project/Special paper (Must first take RES3001 and in the final year of the course)	PRJ4004 (Code to be changed)	3
Cadastral Surveying (Must first take SGI1003 & LAW3007)	SGI4005	5
Professional Practice- The Surveyor & Society - Practical / Internship (Must have completed level 3 before taking this module)	SGI4017	1
Professional Practice- The Surveyor & Society - Theory (Must be a final year student)	SGI4019	2
		11

Total Credit Count for Level 4: 23

NOTE: Core modules are highlighted. These modules should be selected first during online enrolment.

TOTAL CREDIT COUNT FOR COURSE OF STUDY: 141



INFORMATION
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