

## **BUILDING CONSTRUCTION DEPARTMENT**

***Chair: Mr. David Paterson***

The Department of Building Technology forms part of the School of Applied Arts & Technology. It concerns itself with the teaching of various aspects of building trades and is staffed with a group of competent and dedicated persons.

At present all courses are offered over a two year period. Students are expected to do six (6) weeks internship and present models and drawings of projects prior to graduation. They are also required to participate in a Skills Fair each year, where they showcase their models, drawings and projects.

We welcome interested, qualified and disciplined persons to seek entry into the programme.

### ***Programs offered and Teaching Faculty***

<b>No.</b>	<b>Programs Offered</b>	<b>Teaching Faculty</b>
1.	Associate of Applied Science Degree in Building Technology  Level II Certificate in Building Technology	Mr. David Paterson Mr. Angel Carvajal Castillo Mr. Andres Scull Mrs. Rolda Walcott Mr. Garth Andrew (Adjunct) Mr. Patrick George (Adjunct)
2.	Level II Certificate in Plumbing Technology  Level I Certificate in Plumbing Technology	Mr. Derek Augustine Mr. Sebastian Joseph Mr. Gasper Ruiz

## PROGRAMMES

### Associate Degree in Building Technology/Level II Certificate in Building Technology

#### ENTRY REQUIREMENTS

- **Associate Degree and Level II Certificate:** At least 4 CSEC/GCE O'Level subjects or equivalent with a minimum Grade III. Applicants must have English Language and a technical subject in the building trade. Mathematics will be an asset. However, students without the English requirement may be given provisional entry with the proviso that the student submits evidence of having acquired the equivalent qualification before the beginning of the second year.
- Mature student status – a person 25 years or older with experience in the field will be considered.

#### PROGRAM OUTLINE

Course Number	Course Name	Credits
<b>MAJORS</b>		
<b><i>MODULE 1 - DRAWING</i></b>		
BAD 111	Architectural Drawing 1	2
BAD 121	Architectural Drawing	2
BAD 131	Architectural Drawing (Project)	2
BAD 211	Architectural Design, Projects & Model Presentation	2
CAD 211	Computer Aided Design	3
<b><i>MODULE 2 - CARPENTRY</i></b>		
BCJ 110	Carpentry & Joinery	2
BCJ 125	Timber Technology	2
BCJ 127	Carpentry/Projects	2
<b><i>MODULE 3 – BLOCKLAYING &amp; CONCRETING</i></b>		
BCT 111	Masonry 1	2
BCT 121	Masonry 2	2
BCT 128	Blocklaying & Concrete Projects	2
<b><i>MODULE 4 – BUILDING SCIENCE</i></b>		
BSM 113	Forces: Co-planar Forces & Resultants, Moments of Forces	2
BSM 123	Parallel Forces System Centre of Gravity Link Polygon	2
BSM 213	Bending Moment, Shear Force, Stress & Strains	2

	& Young Modulus	
BSM 233	Beam Design	2
<b>MODULE 5 – LAND SURVEYING</b>		
BLS 215	Land Surveying 1	2
BLS 216	Land Surveying 2	2
<b>MODULE 6 – CONSTRUCTION TECHNOLOGY</b>		
BCT 214	Construction Technology 1	2
BCT 224	Construction Technology 2	2
BCT 222	Estimating, Costing & Projects	2
BCT 230	Internship	2
BCT 231	Construction Projects	3
<b>RELATED COURSES</b>		
PLB 110	Related Plumbing	2
WEL 120	Welding for Builders	2
ELY 110	Related Electricity	2
<b>GENERAL EDUCATION COURSES</b>		
COM100	English & Communications 1	3
COM121	English & Communication 2	3
MAT110	Fundamentals of Mathematics	3
ICT110	Introduction to Computers	3
PHI200	Critical Thinking	3
CAS101	Caribbean Society & Culture	3
SOS 111	Social Skills	3
COS 101	Community Service	1
<b>Total Credits for Program</b>		<b>72 Credits</b>

*Please note that students are required to pass the internship.*

## **GRADUATION REQUIREMENTS**

1. A candidate for graduation must meet the requirement in one of the following areas:

- **Associate Degree:** Students will be required to obtain a minimum of seventy-two (72) credits. The student must complete forty-four (44) credits in the majors, six (6) credits in the related courses and twenty-two (22) credits in the general education courses. All major and related courses must be passed with at least a Grade “C”.

For the above the students will be required to obtain credits from approved courses in the following areas: 6 credits from Communication Skills, 6 credits from Mathematics/Science, 3 credits from Critical Thinking, 6 credits from Social Sciences, and 1 credit from Community Services/Physical Education.

- **Level 11 Certificate:** Students will be required to obtain a minimum of fifty-five (55) credits, thirty-seven (37) credits in the majors, six (6) credits in the related courses and twelve (12) credits in general education courses. All major and related courses must be passed with at least a Grade “C”.

For the above, successful completion of all courses in Modules 1, 4 and 6 are compulsory. In addition, students are required to obtain credits from approved courses in the following areas: 3 credits from Communication Skills, 3 credits from Mathematics/Sciences, 3 credits from Critical Thinking, and 3 credits from Social Sciences.

2. Have at least 85% attendance in all classes.
3. Obtain a cumulative Grade Point Average (G.P.A.) of at least 2.00.

## Level II Certificate in Plumbing Technology/Level I Certificate in Plumbing Technology

### ENTRY REQUIREMENTS

- At least three (3) CSEC/GCE subjects or its equivalent with a minimum grade 3. Applicants must have English Language and a technical subject in the building field. Mathematics will be an advantage. Students without Mathematics and English at C.X.C./G.C.E. may be given provisional entry with the proviso that the student submits evidence of having acquired the equivalent qualification before the beginning of the second year.
- Mature Students 25 years and over with experience in the field will be considered.

### PROGRAM OUTLINE

Course Number	Course Name	Credits
<b>MAJORS</b>		
PLB 115	Basic Plumbing: Tools & Equipment	6
PLB 120	Drainage Vent, Waste System, Plumbing Fixtures and Appliances	6
PLB 130	Maintenance & Repairs: Plumbing System	6
PLB 210	Water Supply & Distribution: Domestic & Commercial	3
PLB 211	Private Waste Disposal Systems	3
PLB 220	Understanding & Reading Schematics	3
PLB 221	Domestic and Private Water Systems	3
PLB 231	Internship	3
<b>RELATED COURSES</b>		
BCJ 110	Basic Carpentry	2
ELY 110	Related Electricity	2
BTG 110	Basic Drafting	2
BCT 121	Masonry 2	2
<b>GENERAL EDUCATION COURSES</b>		
COM 100	English & Communication 1	3
MAT 110	Fundamentals of Mathematics	3
ICT 110	Introduction to Computers	3

SOS 111	Social Skills	3
CAD 211	Computer Aided Designs	3
<b>Total Credits for Program</b>		<b>56 Credits</b>

## GRADUATION REQUIREMENTS

1. A candidate for graduation must meet the requirement in one of the following areas:
  - **Level II:** A student must gain a minimum of 56 credits: 33 credits in the major courses, 8 credits from the related courses, and 15 credits from the general education courses. All major and related courses must be passed with at least a Grade “C”.
  - **Level I:** A student must gain a minimum of 34 credits: 21 credits in the major courses, 4 credits in the related courses, and 9 credits from approved courses in general education. Passes in PLB 110, PLB 120, PLB 130 and PLB 231 are mandatory. All major and related courses must be passed with at least a Grade “C”.
2. Attain a minimum of 85% attendance in all classes.
3. Obtain a cumulative Grade Point Average of at least 2.00.