

ENTRY REQUIREMENTS

Applications to the programme are invited from persons who satisfy any of the following:

I. For DEGREE APPLICANTS

- A bachelor's degree or equivalent qualification in Civil, Structural, Construction, Building or Architectural Engineering; or
- A bachelor's degree or equivalent qualification in Architecture or Quantity Surveying or Surveying & Land Information; or
- An equivalent qualification acceptable to the Department of Management Studies.

II. For NON-DEGREE APPLICANTS

The Department of Management Studies is mindful that a number of practitioners in the Caribbean are holders of either technical certificates or diplomas, or have significant years of construction management experience. Thus, applications are invited from persons who may satisfy all of the following conditions :

- They hold technical certificates or diplomas that can be assessed by the University of the West Indies, and
- They have at least five (5) years professional experience in an appropriate sector, and
- They are successful at an interview to be conducted by a panel to be selected by the department of Management Studies.

PROGRAMME COST

Programme costs of BDS \$30,000 (USD\$15,000) include books and materials, plus applicable University Registration fees and can be paid on a per-module basis.

Annual University Registration Fees

University Registration Fees are NOT included in the cost of the tuition fee.

These fees are as follows:

Amenities Fees	– BDS\$700.00	(US\$350.00)
Guild Fees	– BDS\$120.00	(US\$60.00)
ID Card (First year only)	– BDS\$25.00	(US\$12.50)

Students enrolled in this self-financed programme are billed for the courses for which they register each semester. Fees are payable immediately on registration. University fees are additional to the programme fees and are billed on registration every semester until the degree has been awarded.

Programme Costs and University Registration Fees are subject to change in 2011/2012.

PROGRAMME ADMISSION

New students are admitted to the programme at the beginning of each regular semester: January, May and September. Applications may be submitted directly online, in person or by mail on web-based application forms located at: www.cavehill.uwi.edu/gradstudies. Be sure to submit all requested documentation, including a resumé and a statement concerning your objectives in applying for this degree programme.

CONTACT INFORMATION

MSc. Building and Construction Management

PROGRAMME COORDINATOR

Dr. Priscilla Glidden

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TAUGHT HIGHER DEGREE PROGRAMMES

FACULTY OF HUMANITIES & EDUCATION

MA African Studies
MA in Caribbean Studies: Languages/Literatures
MA Cultural Studies
MA Heritage Studies
MA History
MA Linguistics
MA Theology
Diploma in Education (Secondary)
Master in Education (MEd)
MFA Creative Arts

FACULTY OF LAW

Diploma/LLM Corporate & Commercial Law
Diploma/LLM Legislative Drafting
Diploma/LLM Public Law

FACULTY OF MEDICAL SCIENCES

DM Anaesthesia and Intensive Care
DM Emergency Medicine
Diploma, MSc., DM Family Medicine
DM General Surgery (Parts I and II)
Diploma in Health Service Management
DM Internal Medicine

DM Obstetrics and Gynaecology
DM Ophthalmology
DM Paediatrics
DM Psychiatry
Master in Public Health - Health Services Management

FACULTY OF SOCIAL SCIENCES

MSc. Applied Psychology
MSc. Banking & Finance
MSc. Building & Construction Management
MSc. Counselling Psychology
MSc. Cricket Studies
MSc. E-Governance for Developing States
MSc. Financial & Business Economics
MSc. Integration Studies
MSc. International Management
MSc. International Trade Policy
MSc. Investments & Wealth Management
MSc. Labour & Employment Relations
MSc. Logistics and Supply Chain Management

MSc. Management offered in four specialisations:- Financial Management, Human Resource Management, International Management and Marketing

MSc. Management
MSc. Project Management & Evaluation
MSc. Sociology
Master of Social Work
MSc. Tourism and Events Management
MSc. Tourism & Hospitality Management
MSc. Tourism with Project Management
MSc. Tourism and Sport Management
MSc. Tourism Marketing
MSc. Transport Economics

FACULTY OF PURE & APPLIED SCIENCES

MSc. Electronic Commerce
MSc. Natural Resource and Environmental Management

CAVE HILL SCHOOL OF BUSINESS

Doctor of Business Administration
Executive Master in Business Administration
International Master in Business Administration
Master in International Events Management



The University of the West Indies
Cave Hill Campus



Masters Programme
Faculty of Social Sciences



DEPARTMENT OF MANAGEMENT STUDIES

MSc. Building and Construction Management

2011-2012



UWI also offers a range of MPhil and PhD programmes in a number of areas. Information on these as well as our application process, online application forms, and the documentation required can be found at:

www.cavehill.uwi.edu/gradstudies

JOIN THE TRADITION OF EXCELLENCE

PROGRAMME OVERVIEW

The Building and Construction Sector is one of the most important and dynamic sectors in the Caribbean, and the industry has become more complex as clients have become more demanding, the regulatory framework more intricate, technology pervasive, and cost control a requirement.

The MSc. in Building and Construction Management has been designed to address the shortage of construction managers who can effectively navigate this multifaceted, knowledge-rich and competitive context. It is designed for individuals from building and construction and related public and private organizations who want to develop an awareness of the range of challenges that face managers in planning, building, construction and facilities maintenance today. At the highest level, the programme seeks to equip its participants to take a leadership position in public discussions and actions that impact and enhance the health of the overall industry.



University Admin Building, Cave Hill Campus, Barbados
Built by Innotech Services Ltd – a sponsor of the Msc. Building and Construction Management Programme

AIMS AND OBJECTIVES

At an implementation level, the programme seeks to enhance the quality, sustainability, safety, timeliness, and cost effectiveness of projects undertaken in the Caribbean by its graduates. The objectives of the programme are to equip participants to:

- broaden their knowledge, interpersonal, and technical skills in managing people, resources, equipment and materials, schedules, budgets, stakeholders, financial and project risk and uncertainty;
- address contemporary issues in building such as environmental impact, natural hazards, safety, ethics and the regulatory environment;
- carry out both field and research-based projects in which their ability to frame and solve problems, develop strategies and recommendations, lead teams, communicate effectively on all levels will be demonstrated in real time and applicable to future situations; and to
- represent the Caribbean construction professional as a proactive lifelong learner and subject matter expert.

COURSE OF STUDY AND DURATION

Full-time - 15-18 months;

Part-time - maximum of 4 years

The programme will consist of a combination of the following methods of delivery;

- traditional courses (once per week, typically in the evening);
- modular courses (non-traditional course arrangements completed in a shorter time frame, with some weekday and/or weekend hours to supplement evening hours);
- mandatory short-term workshops on contemporary construction issues; and
- a Field-Based Practicum (Practical Project) or Internship plus a Research Project.

COURSE DESCRIPTIONS

1. MANAGEMENT IN THE CONSTRUCTION INDUSTRY LEADERSHIP AND ORGANIZATIONAL BEHAVIOR (3 credits)

- Understanding the organization's operating environment; factors in achieving and sustaining competitive advantage within the construction sector
- Strategy development, and implementation through goals and objectives and managing stake holders
- Leading project-driven teams in construction operations; critical thinking and fact/evidence-based problem-solving; motivating and managing the team's lifecycle development process
- Communicating effectively in person and on paper; facilitating meetings.

ACCOUNTING & FINANCE (3 credits)

- The nature and purpose of accounting
- Elements of financial accounting
- Overview of management accounting, including cost classification, methods of costing, job costing and contract costing, integrated accounts
- Financial Management: project financing, budgeting, financial planning and cost control in construction-related projects, and in construction project portfolios.

CONTEMPORARY INDUSTRIAL RELATIONS PRACTICES (3 credits)

- The nature of industrial conflict and industrial relations processes and outcomes in unionised and non-unionised workplaces
- The role of Government intervention in the promulgation and enforcement of Labour and Employment Law in the context of Caribbean construction projects and national housing initiatives
- The theory, nature and phases of interpersonal conflict; conflict objectives; styles and methods for intervening to promote conflict resolution of others

- Contemporary models for managing collective bargaining and grievance situations, one-on-one, intra- and inter-group settings in construction
- Special cases of technology-based conflicts (email; messaging, texting).

CONTRACT MANAGEMENT AND CONSTRUCTION LAW (3 credits)

- Elements and impact of national and international law on the construction sector
- Construction claims, Performance of construction contracts; Litigation
- Health and Safety Legislation; Environmental Law; Introduction to Intellectual Property
- Types of contracts; types of procurement systems
- Standards, statutes and local government regulations; professional associations, codes of ethics; professional liability
- Confidentiality of information; warranties and indemnity.

2. TECHNICAL CONSTRUCTION MANAGEMENT

NATURAL HAZARDS MANAGEMENT (4 credits)

- Natural hazards threats in the Caribbean
- Conducting a Risk and Vulnerability Assessment
- Developing, justifying and applying mitigation strategies for natural hazards
- Natural disasters and disaster management site-specific plans
- Special problems with development of mega-projects.

MATERIALS TECHNOLOGY (4 credits)

- The aims of sustainable building
- Major contemporary materials and their general properties and behavior
- Developing criteria for choice and use of materials in construction; managing major stakeholder perceptions.
- Specifications, standards and testing of materials.
- Methods for improving the properties and performance of materials.

- Materials procurement, handling, storage, and extraction control.

PROJECT INITIATION AND PLANNING (3 credits)

- Every project is an investment: advanced concepts and tools for planning
- Project proposals and bids
- Advanced team-based WBS methodology
- Setting up CSF'S and performance measurements
- Basic theory and implementation of advanced critical path methodology for firm competitive advantage
- Holistic knowledge management; resources: roles and RAMs
- The 9 PMBOK knowledge areas; the importance of project integration planning
- Calculating project risk; modeling project uncertainty levels; developing risk mitigation plans for 6 categories of risk.

PROJECT EXECUTION, MONITORING AND CONTROL (3 credits)

- The theory of work types; estimating and implementing work types in software
- Monitoring staffing estimates and proactively managing calendars
- Creating a logical framework that links tasks, milestones, resources, costs into a network that can be monitored and optimized in response to changes, and to create competitive advantage
- Understanding when/how to use the old and new project performance metrics for management of project progress and value: DIPP, DRAG, EVC, EMV, etc.
- Levels and techniques for generating reports for stakeholders: government, firm, subcontractor, etc
- Analyzing others' schedules to understand (and challenge) the assumptions and logic behind their displays.

3. CONTEMPORARY ISSUES RESEARCH

RESEARCH METHODS (3 credits)

- Introduction to the theory and practice of quantitative and qualitative research
- The research process and design of a research project; conducting literature reviews; choosing appropriate methodologies
- Research skills associated with data analysis, survey design and research, focus group and face-to-face interviewing, measurement and testing, and report writing.

RESEARCH PROJECT (6 credits)

- Each student will utilize the proposal s/he develops in the Research Methods course as a starting point for developing a significant research paper that sheds new light on a topic in the area of building and construction.

4. CAPSTONE (APPLIED) PROJECT: PRACTICUM or INTERNSHIP

PRACTICUM or INTERNSHIP (6 credits)

All participants will work in a challenging field-based project, which will be designed and executed under faculty guidelines and supervision, and can be completed in whole or part in overseas locations. During fieldwork, students are required to investigate aspects of their projects that demonstrate competence in the use of skills acquired during their prior courses and in the Practicum class sessions. Some individuals will be able to develop excellent projects in the organizations they work for, while others will prefer to have an entirely new experience that will broaden their expertise in new directions.

5. SAMPLE Workshop Topics

- LEEDS certification; green building
- Innovative Design
- Nature Design
- Environmental Impact Analysis
- Project Evaluation
- PMP (Project Management Professional) Certification Examination Prep.