THE UNIVERSITY OF THE WEST INDIES
Cave Hill Campus

UWI
CAVE HILL
2017
2018
POSTGRADUATE PROGRAMMES

FACULTY OF
MEDICAL SCIENCES

POSTGRADUATE PROGRAMME REGULATIONS AND SYLLABUSES
2017-2018

WWW.CAVEHILL.UWI.EDU/GRADSTUDIES
Every attempt has been made to ensure that the information in this booklet is accurate at the time of printing. It is intended for students entering programmes in academic year 2017-2018.

Continuing students must refer to the programme regulations in force in their year of entry.

Students should consult their Programme Coordinator where clarification is required.
THE MISSION AND VISION OF THE UNIVERSITY OF THE WEST INDIES

Mission

To advance learning, create knowledge and foster innovation for the positive transformation of the Caribbean and the wider world.

Vision

An excellent global University rooted in the Caribbean.
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ABOUT THE FACULTY OF MEDICAL SCIENCES

The Faculty of Medical Sciences at the Cave Hill Campus offers the following programmes:

MASTERS IN PUBLIC HEALTH

The programme is designed to train candidates to address regional health priorities at a standard comparable to internationally recognised curricula for public health, including those of the Association of Schools of Public Health (US based) and the UK Faculty of Public Health.

MPhil/PhD RESEARCH DEGREES

The Faculty offers MPhil and PhD research degrees in Epidemiology, Immunology, Medical Microbiology Pharmacology and Public Health.

Entry to a research degree depends on the area of the applicant’s research interest, funding and the availability of appropriate faculty supervision.

DOCTOR OF MEDICINE (DM)

- Anaesthesia & Intensive Care
- Emergency Medicine
- Family Medicine
- Internal Medicine
- Obstetrics and Gynaecology
- Ophthalmology
- Orthopaedic Surgery (Part II only)
- Paediatrics
- Psychiatry
- Surgery (General)

The DM postgraduate programmes are designed to produce doctors with the skills and knowledge in the discipline at the academic level of Lecturer and the professional level of Consultant.

The basic entry requirement is a medical degree with eligibility for registration in the country of study. Candidates are required to register with the Barbados Medical Council prior to beginning the programmes.

The length of the programme ranges from 4 to 7 years depending on the discipline and is pursued through an academic and clinical programme specific to the discipline. For all disciplines it is necessary to be attached to an accredited hospital or service providing patient care. The general regulations of the Board for Graduate Studies and Research apply, and there are also specific regulations governing the programme in each discipline.

Award of the degree is made after satisfactory completion of the final examination which usually requires the presentation of a clinical research project and/or case book along with satisfactory performance in written, clinical and oral examinations.
Entry into the final examination is dependent on satisfactorily completing the intermediate stages and clinical research project/case book/thesis requirements and is detailed in the individual regulations.

The intermediate stages vary by programme. Part I is devoted to the upgrading of the basic knowledge and skills required to proceed to the more advanced part of the course and the acquiring of more advanced academic and research skills and is of varying duration. Entry to Part II will be dependent on satisfying the requirements of Part I, and the requirement of Part II must be satisfied for entry to Part III (where there is a Part III).

**DOUBLE REGISTRATION IN ELECTIVE YEAR**

Candidates pursuing the DM are permitted with the approval of Specialty Boards to register for relevant one year UWI programmes during the elective year provided the course will be completed prior to the start of the final year.

**POSTGRADUATE DIPLOMA IN FAMILY MEDICINE**

The Postgraduate Diploma in Family Medicine is designed for persons who are practicing general medical practitioners. It is aimed at improving the quality of primary health care in the English-speaking Caribbean by producing Family Physicians who deliver high quality comprehensive and continuous personal medical care to individuals and their families within a community context.

The modules in this programme are offered via distance learning to persons who do not have a post at the Queen Elizabeth Hospital.

**MSC IN FAMILY MEDICINE**

The MSc in Family Medicine is equivalent to the DM Family Medicine Year 3 and continues the training for practicing medical practitioners.

The modules in this programme are offered via distance learning to persons who do not have a post at the Queen Elizabeth Hospital.
FACULTY OFFICE & OFFICERS

DEAN, DEPUTY DEAN AND POSTGRADUATE COORDINATORS

Cave Hill

Telephone: (246) 417-4694
(246) 417-4703
Fax: (246) 438-9170
e-mail: fms@cavehill.uwi.edu
Website: http://www.cavehill.uwi.edu/fms/

Queen Elizabeth Hospital

Telephone: (246) 429-5112
Fax: (246) 429-6738
DEAN: Adams, Peter
MBBS, MSc, DM (Fam Med), (UWI)

George Alleyne Chronic Disease Research Centre

Telephone: (246) 426-6416
Fax: (246) 426-8406
DEPUTY DEAN Samuels, T. Alafia
Research and Postgraduate Studies MBBS (UWI), MPH, PhD (JHU)

Postgraduate Coordinators

DM COORDINATOR Kumar, Alok
MBBS, DCH, MD (Paed) (Pondicherry)

DM Anaesthesia & Intensive Care Areti Kumar, Yasodananda
MBBS, Dip (Anaes), MD (Anaes)

DM Emergency Medicine Watson, Harold
MBBS, MSc (Emer Med), DM (Emer Med) (UWI)

DIP/MSC/DM Family Medicine Morris, Euclid
MBBS, MSc (Fam Med) (UWI), MRCGP (UK)
<table>
<thead>
<tr>
<th>Postgraduate Programme</th>
<th>Name</th>
<th>Qualification</th>
</tr>
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<tbody>
<tr>
<td>DM Internal Medicine</td>
<td>George, Colette</td>
<td>MBBS (UWI), MRCP (UK)</td>
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<tr>
<td>DM Obstetrics &amp; Gynaecology</td>
<td>McIntyre, Garth</td>
<td>MBBS FRCOG</td>
</tr>
<tr>
<td>DM Ophthalmology</td>
<td>Grosvenor, Dawn</td>
<td>MBBS (UWI), MRCophth, FRCS (Glas), FRCOphth</td>
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<tr>
<td>DM Orthopaedic Surgery</td>
<td>Nancoo, Tamara</td>
<td>MA(Cantab), MBBChir, PGDip(SEM), FRCS(RCSEng), FRCS(Tr&amp;Orth)</td>
</tr>
<tr>
<td>DM Paediatrics</td>
<td>Kumar, Alok</td>
<td>MBBS (UWI), DCH, MD (Paed) (Pondicherry)</td>
</tr>
<tr>
<td>DM Psychiatry</td>
<td>Emmanuel, Maisha</td>
<td>MBBS, DM (Psych) (UWI), MSc. (Birm)</td>
</tr>
<tr>
<td>DM Surgery (General)</td>
<td>Smith, Alan</td>
<td>MBBS (UWI), DM (Cardiothoracic surgery), FCCS)</td>
</tr>
<tr>
<td>Master of Public Health</td>
<td>Harewood, Heather</td>
<td>BSc, MBBS, MPH</td>
</tr>
<tr>
<td>MPhil/ PhD Epidemiology; Public Health</td>
<td>Murphy, Madhuvanti</td>
<td>BSC, MPH (Miami), DrPH (Columbia)</td>
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<tr>
<td>MPhil/ PhD Immunology</td>
<td>Landis, R. Clive</td>
<td>PhD</td>
</tr>
<tr>
<td>MPhil/ PhD Medical Microbiology</td>
<td>Gittens-St. Hilaire, Marquita</td>
<td>BSc, PhD (UWI)</td>
</tr>
<tr>
<td>MPhil/ PhD Pharmacology</td>
<td>Cohall, Damian</td>
<td>BSc, PhD (UWI)</td>
</tr>
</tbody>
</table>

**Representative, Office of Graduate Studies and Research**

Miss Monica Legall
246-417-4904
GENERAL INFORMATION FOR POSTGRADUATE STUDENTS

University’s Regulations for Graduate Diploma and Degrees are supplemented by Faculty Regulations which have been approved by the Board for Graduate Studies and Research.

Faculty Regulations govern those aspects of a degree programme which are specific to Departments or Faculties. These may include the mode of assessment by course work, the length of a Clinical Research Project or the deadline date for submission of the Clinical Research Project or Research Paper.

Where any differences exist, University Regulations, which are on-line in the document library found at www.cavehill.uwi.edu/gradstudies, take precedence over Faculty Regulations.

Students should familiarize themselves with the Faculty and the University Regulations and also note the following administrative information:

Registration
Every student is required to register on-line within the first week of every semester until his/her degree has been awarded. Changes in registration are permitted until the end of the third week of the semester.

Registration is a two-part process:
1. The selection of courses on-line through Cave Hill On-Line (CHOL), and
2. The payment to the Bursary of all fees generated.

If a student experiences any difficulty registering or re-registering it is his/her responsibility to inform the relevant faculty clerk in Graduate Studies within the first 3 weeks of the semester by email to gradstudies@cavehill.uwi.edu so that problems can be resolved.

Withdrawal
If at the end of the published registration period our records show that a student has not registered, and that student is not on approved Leave of Absence, he/she will be Deemed to have Withdrawn from the programme and his/her name will be removed from the student register. To be considered for re-entry to a programme after withdrawal requires re-application to the programme.

Examinations
Unless otherwise stated, examinations for courses in all programmes will be held at the end of the semester in which the courses were taught.
POSTGRADUATE PROGRAMMES IN MEDICAL SCIENCES

Master in Public Health (MPH)

Introduction

The MPH programme at Cave Hill aims to meet the training needs of the region, by developing practitioners in public health and epidemiology, and improving public health leadership. The programme is designed to train candidates to address regional health priorities at a standard comparable to internationally recognised curricula for public health, including those of the Association of Schools of Public Health (US based) and the UK Faculty of Public Health.

Objectives

By the end of the programme, successful participants will be able to:

- Demonstrate an understanding of the philosophy and principles of public health and their evolution;
- Describe the natural history, biology, pathophysiology, risk factors, methods of investigation, and strategies for the prevention and control of several diseases, health conditions, or health behaviors important to public health;
- Put into practice the concepts, study design, methods of implementation, and evaluation of epidemiologic investigations including their application to surveillance systems;
- Show an understanding of the statistical, data management, and quality control procedures applied to data derived in public health practice settings;
- Demonstrate the ability to summarize health related data and statistics, and to calculate and interpret associations and their relevance to practice situations;
- Present demographic, statistical, programmatic, and scientific data accurately and effectively for professional and general audiences;
- Use effective written and oral communication skills for presenting public health information and epidemiologic data;
- Demonstrate the ability to synthesize knowledge of a specific problem and critically evaluate methods and findings;
- Follow ethical and legal principles pertaining to public health research and practice, including their practical application;
- Demonstrate the ability to integrate epidemiologic concepts and analytic approaches to the study of a specific public health problem in a practice setting and preparing a written and oral report for professionals in the practice setting;
- Understand the role of epidemiology as a discipline in the context of public health and the broader health sciences, including its purpose, strengths, and limitations;
- Demonstrate the ability to critically apply qualitative research methods to the study of a specific public health problem in a practice, and appropriately present their findings by written and oral means;
• Show adequate knowledge, skills, and understanding in communication and informatics, diversity and culture, leadership, professionalism, program planning and systems thinking;
• Provide an account of the history, development, current status and challenges to the health status of the people of the Caribbean.

Entry requirements

Candidates must have an undergraduate degree in any of the Health Sciences, Biological Sciences, Management Sciences or relevant professional qualifications at the graduate or postgraduate level. Participants will be selected by a review panel which may require applicants to attend an interview and/or take a mathematics competence test.

Duration

The MPH programme is offered as a full time programme over twelve (12) months of study with two semesters and a summer term from September to August of the following year, and includes both classroom and laboratory/practical activities. The programme can also be completed part-time over 2 years.

All classes are held at the Errol Walrond Building in the afternoons (1:00pm to 6:30pm) on Mondays to Fridays.

Examination re-sits or re-submission of coursework

Candidates are required to pass both written examinations and coursework at the first attempt. If a candidate fails the coursework or written examination at the first attempt, the Board of Examiners would recommend to Campus Committee for Graduate Studies and Research whether a second attempt should be permitted. If this is approved, the student is awarded a failing grade of FE (failed exam) or FC (failed coursework), and is expected to re-sit the examination / re-submit coursework for that course the next time it is offered.

In such cases an Examinations Only registration must be done administratively and students will need to contact the relevant faculty clerk in Graduate Studies within the first week of the relevant semester by email to gradstudies@cavehill.uwi.edu with details of the course for which they are to be registered. Re-sits and resubmissions attract a per-credit fee.

Re-taking a failed course

Any student who was unsuccessful in a course (grade F) is required to re-take the entire course and must self-register using CHOL the next time the course is offered. Re-taking a course attracts the full per-credit cost of the course again.

Requirement to withdraw

Any candidate who receives a second failing grade in any compulsory course or who fails two or more courses in any semester will be required to withdraw from the programme. Applications for re-entry from
students who were Required to Withdraw are not normally considered until a period of two years has elapsed.

**Distinction**

To be awarded the Master in Public Health with Distinction, the candidate must pass all courses at the first sitting and the average mark of all courses (excluding the Research paper) must be 70% or more. The candidate must also achieve a mark of 70% or over in the Research Paper.

**Programme Structure / Course of Study**

Candidates are required to gain 41 credits through successful completion of 9 compulsory courses, and the research project with the balance of credits to be made up from electives. All students are strongly advised to take the 0-credit course Computing for Public Health in the first semester.

**LIST OF COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PBHE 6015</td>
<td>Social and Behavioural Science</td>
<td>3 credits</td>
</tr>
<tr>
<td>PBHE 6050</td>
<td>Health Economics</td>
<td>3 credits</td>
</tr>
<tr>
<td>PBHE 6100</td>
<td>Biostatistics I</td>
<td>2 credits</td>
</tr>
<tr>
<td>PBHE 6110</td>
<td>Epidemiology of Priority Diseases</td>
<td>3 credits</td>
</tr>
<tr>
<td>PBHE 6200</td>
<td>Epidemiology I</td>
<td>3 credits</td>
</tr>
<tr>
<td>PBHE 6400</td>
<td>Health Care Systems</td>
<td>3 credits</td>
</tr>
<tr>
<td>PBHE 6500</td>
<td>Primary Health Care (2 credits) OR PBHE 6300 Family Health (2 credits)</td>
<td></td>
</tr>
<tr>
<td>PBHE 6600</td>
<td>Environmental Health</td>
<td>3 credits</td>
</tr>
<tr>
<td>PBHE 6900</td>
<td>Research Methodology</td>
<td>2 credits</td>
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<tr>
<td>PBHE 6930</td>
<td>Qualitative Research Methods</td>
<td>2 credits</td>
</tr>
<tr>
<td>PBHE 6940</td>
<td>Project Mgt&amp; Integrated Knowledge Application (linked to the Research Project)</td>
<td>1 credit</td>
</tr>
<tr>
<td>PBHE 6990</td>
<td>Research Project</td>
<td>7 credits</td>
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**Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PBHE 6000</td>
<td>Health Promotion</td>
<td>3 credits</td>
</tr>
<tr>
<td>PBHE 6060</td>
<td>Qualitative Data Analysis</td>
<td>2 credits</td>
</tr>
<tr>
<td>PBHE 6105</td>
<td>Quantitative Data Analysis</td>
<td>2 credits</td>
</tr>
<tr>
<td>PBHE 6210</td>
<td>Advanced Epidemiology</td>
<td>2 credits</td>
</tr>
<tr>
<td>PBHE 6420</td>
<td>Human Resources for Health</td>
<td>3 credits</td>
</tr>
<tr>
<td>PBHE 6925</td>
<td>Computing for Public Health</td>
<td>0 credit</td>
</tr>
</tbody>
</table>

[Link to Course Descriptions]
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**MPhil/PhD Epidemiology**

**Introduction**

The aim of the MPhil/PhD programme is to support the development of epidemiologists who are capable of assuming leadership roles in academia, the health sector, government, industry and private enterprises nationally and internationally. Graduates will be expected to have a sound knowledge of epidemiological concepts, principles, methods, sources of data and relevant ethical issues; be able to work with and interpret existing data, read and understand and evaluate the scientific literature relevant to epidemiology and their areas of expertise, develop testable hypotheses and set out relevant research questions and design and develop a feasible research proposal, exhibit practical skills - including participant selection, data collection, study logistics, construction of a data set, data analysis skills and scientific writing skills.

**Objectives**

The overall goal is to increase capacity in the Caribbean and wider region of individuals who through their expertise in epidemiology will contribute to the control and prevention of disease and the promotion of health.

**Entry Requirements**

To the MPhil/PhD Programme

The entry requirements to this programme include a Master in Public Health (MPH) or equivalent completed within the previous 5 years. The Masters degree must have included a research project in which the applicant obtained a B plus average, and have included courses in at least three of: quantitative research methods, qualitative research methods, biostatistics, basic epidemiology, advanced epidemiology, in which they also obtained a B plus average.

Potential applicants who do not have a Masters degree will be encouraged to register for a Masters in Public Health and to reapply on its successful completion.

There may be applicants who completed the Masters courses more than 5 years before their application but who are able to demonstrate (providing suitable evidence) that they have maintained competency in two or more of the above areas, such as through teaching and/or through involvement in research.

Direct Entry to the PhD Programme

To be admitted directly to the PhD programme, a Master in Public Health (MPH) or equivalent must have been completed within the previous 5 years. The Masters degree must have:

1) included a research project which contributed to at least 25% of the total credit rating of the Masters, and in which the applicant obtained a B+ average, and

2) included courses in at least three of: quantitative research methods, qualitative research methods, biostatistics, basic epidemiology, advanced epidemiology, in which they also obtained a B+ average.
Note that in many taught Masters degree programmes, the research project contributes less than 25% of the overall credit rating, in which case, direct entry to the PhD programme would not be possible. It is anticipated that most candidates wishing to undertake the PhD will register initially for the MPhil.

**Duration**

The MPhil degree normally takes a minimum of two years of intensive research on a full-time basis. A PhD degree usually takes a minimum of three years full-time. Part-time studies may also be pursued.

**Course of study**

Students in the MPhil and PhD degree programme are required to successfully:

1. Complete a minimum of six (6) credits of coursework for MPhil; nine (9) credits of coursework for PhD,
2. Present seminars (2 for MPhil/3 for PhD), and

**Courses**

All students must have completed, with a minimum grade of B+, Masters courses in Epidemiology 1, Advanced Epidemiology, Quantitative Research Methods, and Biostatics (including use of statistical software). Those students who did not fully meet this requirement on admission must complete these courses before being able to progress.

In addition, MPhil candidates are required to complete 6 credit hours of taught courses, and PhD candidates will complete 9. Candidates, in liaison with their supervisor(s), are able to choose from all relevant Masters courses offered within The University of the West Indies. They may also count towards these credit hours relevant approved courses and training seminars offered by other educational institutions.

**Compulsory Seminar Presentations**

Candidates are required to write and present one departmental seminar each academic year on a topic arising out of their research, as well as to field questions put to them afterwards.

**Thesis**

Candidates are required to present and defend a Thesis of acceptable scope and quality for the degree. The Thesis must follow the guidelines set out in the University’s Thesis guide.

**Award of the Degree**

The successful completion of the required coursework, the compulsory Seminar presentations and the Thesis will lead to the award of the Degree.

The final grade in the MPhil / PhD programmes is Pass / Fail
LIST OF COURSES

As determined necessary

PBHE 6100  Biostatics
PBHE 6200  Epidemiology 1
PBHE 6210  Advanced Epidemiology
PBHE 6900  Research Methodology

Core for all students depending on their programme

GRSM 6001  MPhil Research Seminar 1
GRSM 6002  MPhil Research Seminar 2
GRSM 8001  PhD Research Seminar 1
GRSM 8002  PhD Research Seminar 2
GRSM 8003  PhD Research Seminar 3

EPDM 6000  MPhil Epidemiology
EPDM 8000  PhD Epidemiology

Other courses as approved by the students’ supervisors.

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MPhil/PhD Immunology

Introduction

Immunology is the study of the immune system, which is required to defend the body against infectious disease. Any breakdown in the immune system (such as during immunosuppression or HIV) leaves a person at risk of infections. A key facet of the immune system is the ability to discriminate between self and non-self, so that the immune response is only mounted at a foreign target, not against your own body as happens in autoimmune diseases. The immune system also orchestrates wound healing, which is a tightly regulated process so that the potentially destructive immune response is targeted the right place at the right time.

The MPhil – PhD course in Immunology is a research based program based in the Edmund Cohen Laboratory for Vascular Research, Chronic Disease Research Centre. In the laboratory we are interested in studying the role of inflammation in wound healing and the recovery from surgery. The laboratory also serves as an Immunology training hub, delivering the Immunology undergraduate medical and PhD programmes for The University of the West Indies, publishing HIV research in collaboration with the National AIDS Program in Barbados, and acting as the regional coordinating centre running accredited HIV/AIDS training workshops across the Caribbean.

Entry Requirements

MPhil Candidates require at least an Upper Second Class Honours degree with a strong background in the discipline into which entry is being sought. All research students must register initially for the MPhil degree but may later, with suitable progress, be upgraded to register for the PhD degree. In cases where the candidate already has an MPhil degree (or equivalent), direct entry to the PhD is possible.

Availability of Expertise and Resources

Admission is contingent upon whether candidates have a thesis proposal compatible with the expertise and resources available in the Faculty of Medical Sciences.

Course of study

Students in the MPhil and PhD degree programme are required to successfully:
1. Complete a minimum of six (6) credits of coursework for MPhil nine (9) credits of coursework for PhD,
2. Present seminars (2 for MPhil/3 for PhD), and

Courses

Students in the MPhil and PhD degree programme should discuss with their supervisor suitable courses which would satisfy the credit requirements. Courses should be completed in the first year.

Compulsory Seminar Presentations

For each seminar, candidates are required to write and present a paper to be photocopied and distributed
before hand on a topic arising out of their research, as well as to field questions put to them afterwards.

**Thesis**

Candidates are required to present and defend a Thesis of acceptable scope and quality for the degree. The Thesis must follow the guidelines set out in the University’s Thesis guide.

**Award of the Degree**

The successful completion of the required coursework, the compulsory Seminar presentations and the Thesis will lead to the award of the Degree.

The final grade in the MPhil / PhD programmes is Pass / Fail

**LIST OF COURSES**

**Core for all students depending on their programme**

GRSM 6001 MPhil Research Seminar 1  
GRSM 6002 MPhil Research Seminar 2  
GRSM 8001 PhD Research Seminar 1  
GRSM 8002 PhD Research Seminar 2  
GRSM 8003 PhD Research Seminar 2  
IMMU 6000 MPhil Immunology  
IMMU 8000 PhD Immunology  

Other courses as approved by the students’ supervisors.

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MPhil/PhD Medical Microbiology

Introduction

This programme provides graduates with a methodical understanding of the scientific basis of microbiological concepts. The MPhil program is based on research and submission of a thesis. Graduates from the MPhil programme will be equipped with the knowledge, analytical, and practical skills to pursue careers in medical microbiology in hospital, laboratories, industrial or research settings. Furthermore, this programme will prepare them for further higher degree training in medical microbiology such as the PhD degree. The PhD programme is geared towards producing clinical scientists or medical consultants who are capable of assisting physicians in the management of infections and who can assist and advise hospitals’ infection control and medical microbiology departments.

Emphasis is placed on the appropriate delivery of epidemiological concepts, microbiological application and the development of research methods which would enhance the field of microbiology.

Entry Requirements

MPhil Candidates require at least an Upper Second Class Honours degree with a strong background in the discipline into which entry is being sought. All research students must register initially for the MPhil degree but may later, with suitable progress, be upgraded to register for the PhD degree. In cases where the candidate already has an MPhil degree (or equivalent), direct entry to the PhD is possible.

Availability of Expertise and Resources

Admission is contingent upon whether candidates have a thesis proposal compatible with the expertise and resources available in the Faculty of Medical Sciences.

Course of study

Students in the MPhil and PhD degree programme are required to successfully:
1. Complete a minimum of six (6) credits of coursework for MPhil nine (9) credits of coursework for PhD,
2. Present seminars (2 for MPhil/3 for PhD), and

Courses

Students in the MPhil and PhD degree programme should discuss with their supervisor suitable courses which would satisfy the credit requirements. Courses should be completed in the first year.

Compulsory Seminar Presentations

For each seminar, candidates are required to write and present a paper to be photocopied and distributed beforehand on a topic arising out of their research, as well as to field questions put to them afterwards.
**Thesis**

Candidates are required to present and defend a Thesis of acceptable scope and quality for the degree. The Thesis must follow the guidelines set out in the University’s Thesis guide.

**Award of the Degree**

The successful completion of the required coursework, the compulsory Seminar presentations and the Thesis will lead to the award of the Degree.

The final grade in the MPhil / PhD programmes is Pass / Fail

**LIST OF COURSES**

**Core for all students depending on their programme**

- GRSM 6001  MPhil Research Seminar 1
- GRSM 6002  MPhil Research Seminar2

- GRSM 8001  PhD Research Seminar 1
- GRSM 8002  PhD Research Seminar 2
- GRSM 8003  PhD Research Seminar 2

- MEDC 6000  MPhil Medical Microbiology
- MEDC 8020  PhD Medical Microbiology

Other courses as approved by the students’ supervisors.

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MPhil/PhD Pharmacology

Introduction

Pharmacology is the study of the effects of drugs on the function of living systems. It investigates these effects from the drug induced molecular and subsequent cellular effects to the clinical evaluation of the drug’s efficacy. The discipline focuses on the evaluation of clinically relevant drugs for the improvement of disease management for further exploration of body functions.

MPhil / PhD training in Pharmacology will provide prospective postgraduates with the requisite expertise in the discipline and the core concepts and techniques required for basic and clinical research. Most notably, it facilitates the development of independent investigators.

The programme provides students with a solid foundation through coursework, research, and opportunities to develop communication and presentation skills.

Objectives

On completion of the programme(s) students will be able to:

1. Demonstrate an understanding of the basic concepts of pharmacology.
2. Apply basic pharmacology in appreciating how drugs are used therapeutically.
3. Be able to complete project proposal writing and execution.
4. Apply pharmacological procedures in examination of the research question.
5. Demonstrate integration of knowledge and skills through a variety of experiences and tools such as comprehensive examinations, executing a research project and thesis development.
6. Apply knowledge to impact changes that can positively impact clinical research.

Entry Requirements

Prospective students should have the following undergraduate qualifications to register for the respective programme:

A. For the MPhil, a MB BS or a Bachelor of Science (BSc) or a Bachelor of Basic Medical Sciences (BBMedSc) with a minimum cumulative GPA of 3.0 (Upper Second Class Honours) from a recognized post-secondary institution in:
   - Pharmacology
   - Biochemistry
   - Biomedical sciences
   - Molecular and cell biology
   - Toxicology
   - Chemistry
   - Pharmacy

B. For the PhD, a MPhil or Master of Science (MSc) in
Pharmacology (Applied or Basic)
– Pharmacy or Pharmaceutical Sciences
– Toxicology

i. These candidates should also verify that they have completed two semesters of Level I – III biology and chemistry.

ii. Two letters of recommendation from individuals who can attest to the candidate’s character, scientific ability and work experience will also be required.

iii. Please note that candidates holding a BSc or a Master’s degree in Pharmacology or Pharmacy or a MB BS may be exempted from the Basic and Systems Based Pharmacology course.

Course of study

MPhil Students are required to take:
- Basic and System Based Pharmacology (6 credits)
- Basic Research Skills for Pharmacology (3 credits)

PhD Students are required to take:
- Basic and System Based Pharmacology (6 credits)
- Basic Research Skills for Pharmacology (3 credits)
- Writing a Scientific Paper (3 credits)

In total students in the MPhil and PhD degree programme are required to successfully:
1. Complete a minimum of nine (9) credits of coursework for MPhil twelve (12) credits of coursework for PhD,
2. Present seminars (2 for MPhil/3 for PhD), and

Compulsory Seminar Presentations

Candidates are required to write and present one departmental seminar each academic year on a topic arising out of their research, as well as to field questions put to them afterwards.

Thesis

Candidates are required to present and defend a Thesis of acceptable scope and quality for the degree. The Thesis must follow the guidelines set out in the University’s Thesis guide.

Award of the Degree

The successful completion of the required coursework, the compulsory seminar presentations and the Thesis will lead to the award of the Degree.

The final grade in the MPhil / PhD programmes is Pass / Fail.
LIST OF COURSES

As determined necessary

PHAL 6012  Basic and System Based Pharmacology (6 credits)
PHAL 6013  Basic Research Skills for Pharmacology (3 credits)
FPAS 6020  Writing a Scientific Paper (3 credits)

Core for all students depending on their programme

GRSM 6001  MPhil Research Seminar 1
GRSM 6002  MPhil Research Seminar 2
GRSM 8001  PhD Research Seminar 1
GRSM 8002  PhD Research Seminar 2
GRSM 8003  PhD Research Seminar 2

PHAL 6000  MPhil Pharmacology
PHAL 8000  PhD Pharmacology

Other courses as approved by the students’ supervisors.

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**MPhil/PhD Public Health**

**Introduction**

Public Health is the science and art of preventing disease, prolonging life and promoting health through the organized efforts of society. Public health draws on a broad range of disciplines and as such the research needed to inform, guide and evaluate public health measures is broad, including both qualitative and quantitative methods.

The MPhil/PhD programme has been designed to provide advanced training in Public Health Research methods and contribute new knowledge to help guide Public Health interventions within the region. Candidates will initially register for the MPhil degree, and those who wish to progress to a PhD will be allowed to do so on evidence of satisfactory progress, which includes assessment at an upgrade seminar as per University regulations.

**Objectives**

The overall aim of this programme is to support the further development of leadership in Public Health research within the Caribbean and wider region. This overall aim will be achieved through meeting the following objectives.

1) To provide world class training in the application of quantitative and qualitative research methods to Public Health

2) To increase capacity in Public Health leaders within academia, government and private sectors who individually are:
   a) Expert in the application of one or more research methodologies relevant to public health
   b) Expert in the critical evaluation of a breadth of research methodologies that are relevant to public health;
   c) Capable of initiating, designing and leading research programmes to address Public Health problems

3) To generate new knowledge to guide Public Health interventions within the Caribbean. In meeting this aim and objectives we will be responding to national and regional needs identified by Governments and Intergovernmental Organizations for strengthening capacity in Public Health.

**Entry Requirements**

All candidates will initially register for the MPhil degree, and those who wish to progress to a PhD will be allowed to do so on evidence of satisfactory progress, which includes assessment at an upgrade seminar.

**Entry Requirements**

The entry requirements include a Master in Public Health (MPH) or equivalent completed within the previous 5 years.
The Masters degree must have included a research project in which the applicant obtained a B+ average and have included courses in at least three of Quantitative Research Methods, Qualitative Research methods, biostatistics, basic epidemiology advanced epidemiology, in which they also obtained a B+ average.

Duration
The minimum period of full time study for an MPhil degree is 2 years with up to an additional one year to write up, and for a PhD degree is 3 years with up to an additional 2 years to write up.

Programme Structure / Course of Study
Students in the MPhil and PhD degree programme are required to successfully:
1. Complete a minimum of six (6) credits of coursework for MPhil nine (9) credits of coursework for PhD,
2. Present seminars(2 for MPhil/3 for PhD), and

Courses
Candidates are required to complete the following courses: Epidemiology 1 (PBHE 6200) and Advanced Epidemiology (PBHE 6210), Biostatistics (PBHE 6100), Quantitative and Qualitative Research Methods (PBHE 6900 and PBHE 6930 respectively). The programme entry criteria require that candidates must have completed at least one of these courses (or their equivalent), prior to acceptance. They will be required to complete the courses they have not already taken. Candidates who have completed most or all of these courses prior to programme entry will be able to choose, in liaison with their supervisor, other courses to study that are relevant to their PhD topic and will make up the taught course requirement.

Compulsory Seminar Presentations
Candidates are required to give at least one departmental seminar per year on a topic arising out of their research, as well as to field questions put to them afterwards.

Thesis
Candidates are required to present and defend a Thesis of acceptable scope and quality for the degree. The Thesis must follow the guidelines set out in the University’s Thesis guide.

Award of the Degree
The successful completion of the required coursework, the compulsory Seminar presentations and the Thesis will lead to the award of the Degree.

The final grade in the MPhil / PhD programmes is Pass / Fail.
LIST OF COURSES

As determined necessary
PBHE 6100  Biostatics
PBHE 6200  Epidemiology 1
PBHE 6210  Advanced Epidemiology
PBHE 6900  Research Methodology
PBHE 6930  Qualitative Research Methods

Core for all students depending on their programme
GRSM 6001  MPhil Research Seminar 1
GRSM 6002  MPhil Research Seminar 2

GRSM 8001  PhD Research Seminar 1
GRSM 8002  PhD Research Seminar 2
GRSM 8003  PhD Research Seminar 3

PBHE 6995  MPhil Public Health
PBHE 8000  PhD Public Health

Other courses as approved by the students’ supervisors.

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GENERAL REGULATIONS FOR THE DOCTOR OF MEDICINE (DM) DEGREE

Requirements for Entry
1. The applicant to the Clinical programmes should be:
   a) A graduate in medicine of a University or Medical School recognized by The University of the West Indies.
   b) Registrable in the territory or territories in which the programme will be done. Criteria for registration should be obtained from the relevant medical council.

2. Applicants will be eligible for entry after completing their internship, and for some programmes relevant work experiences.

Date of Entry
3. The date of entry will normally be as indicated in the table below.

<table>
<thead>
<tr>
<th>Programmes</th>
<th>Duration (Years)</th>
<th>Commencement Dates</th>
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<tbody>
<tr>
<td>Doctor of Medicine (DM)</td>
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<tr>
<td>Anaesthesia &amp; Intensive Care</td>
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<tr>
<td>Emergency Medicine</td>
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</tr>
<tr>
<td>Family Medicine</td>
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<tr>
<td>Internal Medicine</td>
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<tr>
<td>Obstetrics and Gynaecology</td>
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</tr>
<tr>
<td>Ophthalmology</td>
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<tr>
<td>Paediatrics</td>
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<tr>
<td>Psychiatry</td>
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<tr>
<td>Radiology</td>
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<td>Surgery:</td>
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<td>General Orthopaedic Surgery (Part II)</td>
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<td>Postgraduate Diploma in Family Medicine</td>
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<td>July</td>
</tr>
<tr>
<td>MSc in Family Medicine</td>
<td>1</td>
<td>July</td>
</tr>
</tbody>
</table>

Where applicable, the date of entry is determined by the date when the candidate begins to work in a recognized post in an accredited hospital. Application to enter the programme may be made before securing such a post. The applicant may then receive provisional acceptance for entry to the programme contingent on obtaining an accredited post. After the successful applicant has secured an accredited post, the date of entry will be fixed by the School for Graduate Studies and Research and the applicant notified accordingly.

4. For the purpose of the above the successful applicant must furnish evidence of being in a recognized post.
Oversight and Supervision

5. Each programme will be under the general supervision of a Programme Coordinator nominated by the Dean or his/her representative. The Programme Coordinator will normally be the Chairperson of the Specialty Board responsible for the relevant specialization. The Specialty Board is in overall charge of the programme. Each student will be assigned to a supervisor, who is a member of the relevant Specialty Board. The supervisor will provide academic guidance as to the choice/assignment of rotations, placement during the elective period, the conduct of their research and mentorship.

6. The sole and final authority on all matters concerning the programme is the Board for Graduate Studies and Research and the University Senate.

Registration

7. Students are required to register every semester during each year of the course of study.
   Registration involves two components:
   - Online selection of course(s) and approval of academic programme; and
   - Payment of fees

8. Courses are selected on-line using the Students Administration System on the website of the relevant campus. Fees are paid to the Bursary of the campus of the programme.

9. After registering students are advised to check for financial clearance and to ensure the registration process is complete.

Course of Study

10. The programme will normally take place at a Hospital or institution recognized by the University for this purpose. Institutions may be recognized for all or part of the programme.

11. Up to one year’s elective period may be spent at institutions in or out of the Caribbean approved by the appropriate Specialty Boards. Students are required to register during their elective year.

12. Where offered, the duration of the MD programme is 5-7 years. This programme is research based and as such the regulations included in this book should be read in conjunction with the Regulations for Graduate Diplomas and Degrees.

13. The MSc, Postgraduate Diploma and Clinical Fellowship (where offered) are delivered by modules via distance mode, didactic sessions, workshops and clinical rotations, where applicable.

Exemption

14. Students who have completed studies in recognized hospitals or institutions and who want exemptions from a part of the course must apply to the appropriate Specialty Board (See Special Regulations). Exemptions from examinations are not generally considered.
Leave
15. Each DM student must spend 46 weeks each year in the programme. Students can have a total of six weeks leave per annum (including all forms of leave). Where the leave requested exceeds six weeks, students should apply for leave of absence for that semester. In addition, if a student requests more than two (2) weeks in any 1 rotation, unless approval is obtained from the Specialty Board, the student must take a Leave of Absence for the semester in which the rotation falls.

16. A candidate who has been absent from the programme for more than six weeks in any one year will be considered to have failed to fulfill the programme’s requirements for that year and will be required to extend the time for completion of his or her programme.

Leave of Absence
17. A student may apply for leave of absence from the programme for academic or personal reasons. Applications should be submitted through the Specialty Board and the Faculty Sub-Committee for Graduate Studies and Research to the Campus Committee for Graduate Studies and Research. The application must be accompanied by a statement of the reason for the application. Appropriate recommendations will be made by the Specialty Boards through the Faculty Sub-Committee for Graduate Studies and Research, to the Campus Office.

18. Leave of absence shall not be granted for more than one academic year in the first instance. A candidate may apply to the Campus Committee for leave of absence for a second year through the Specialty Boards and the Faculty Sub-Committee for Graduate Studies and Research, but further extensions will be at the discretion of the Specialty Board.

19. Candidates requesting Leave of Absence should submit their application no later than the third week of the semester.

20. Students who absent themselves without permission may have their names removed from the register of postgraduate students.

Assessment/Supervisors’ Reports
21. All students will be assessed by their supervisor at least semi-annually (January and June) each year. The reports must be transmitted through the Programme Coordinator and the Faculty Sub-Committee for Graduate Studies and Research to the Campus Committee for Graduate Studies and Research, no later than January 31 and June 30 each year.

22. The report should indicate the candidate’s performance for the semester. Students with unsatisfactory records will be encouraged to improve. If poor performance persists (i.e. three successive unsatisfactory reports) students will be asked to withdraw from the programme.

23. The Programme Coordinator or Supervisor (as appropriate) shall supply the student with a copy of the report and the student shall be invited to verify that the report was seen.
Examinations
24. Candidates shall be examined by means of one or more of the following:
   a) Written examinations
   b) Coursework/rotations as set out in the individual regulations
   c) Oral examinations
   d) Clinical examinations

25. Before admission to any examination, candidates must be certified by their supervisors as having completed the relevant sections of the programme.

26. Students are normally expected to present themselves for the first examination being held for which they are eligible. In exceptional circumstances (such as ill health), a student may request permission from the Campus Committee for Graduate Studies and Research through the Specialty Board and the Faculty Sub-Committee for Graduate Studies and Research to defer the date of the first sitting.

27. Candidates must register for the examination at the appropriate time.

28. Candidates must comply with the University Regulations regarding Examinations for Higher Degrees.

29. Each Paper of the examination must be passed and each component of the examination, as stated above, must be passed in order to pass the whole examination.

30. Each part of the examination must be completed within one calendar year of the first attempt.

31. No candidate will be allowed more than two attempts at any one examination. Failure at the second attempt requires the candidate to withdraw.

Deferral
32. Students who have deferred an examination must sit same within one year of the deferral being approved.

Case Books/Clinical Research Projects/Theses
33. Where these are included in the examination process of any specialty, the regulations for their presentation will be those of the University which govern the preparations of these reports and those specified in the specialty regulations.

34. Unless otherwise stated in the regulations of the specific DM programme, Case books/Clinical Research Projects are to be submitted to the Coordinator of the respective programme six months before the written examination as the acceptance of the project is a prerequisite to proceed to the final examinations. The case books/Clinical Research Projects will be submitted to the Faculty Committee for Graduate Studies and Research, with the name of the external examiner, for distribution. The case books/Clinical Research Projects (soft and hardcopy) should be accompanied with the Certificate of Completion and the Turnitin report receipt.
35. Unless otherwise stated in the specific programme regulations, the submission dates are as follows:
   - For Residents sitting the May/June examinations – December 15
   - For Residents sitting the November/December examinations – June 15

36. The case books/Clinical Research Projects /theses will be returned to the candidates prior to the examinations with the recommendations for corrections, where applicable. Candidates are required to make all corrections and submit the final document, both as hard copies and on CDs, to the Coordinator of the programme. They will be verified and submitted to the Faculty Sub-Committee for Graduate Studies and Research for processing along with certification from supervisors, in order to be eligible for the award of the degree.

37. Residents will be informed by their Programme Coordinators or Heads of Department, as appropriate, at least 6 weeks before the examination if they are eligible to sit same.

N.B. The Regulations for each Specialty must be read in conjunction with these General Regulations.
DM (Anaesthesia and Intensive Care)

Requirements for entry

See general regulations – Doctor of Medicine.

1. Applicants will be eligible for entry after completing their internship / Senior House Officer year as appropriate.

2. Candidates are required to submit an on-line or written application and may be required to attend an interview to be eligible for selection to the programme.

Course of study

This section should be read in conjunction with the General Regulations - Doctor of Medicine.

3. The DM Anaesthesia and Intensive Care programme is a four year postgraduate course which aims to provide the graduate with the knowledge and clinical competency to function as a specialist anaesthetist and intensivist, equipped for independent practice in hospital-based and stand-alone facilities.

4. The programme will be a minimum of four years except under special circumstances (see Exemptions) from the date of entry. At least three years of the programme must be spent in the Commonwealth Caribbean. Throughout the programme, candidates must hold recognized posts in accredited hospitals or be on an 'elective' approved by the Board for Graduate Studies and Research through the relevant Specialty Board. A list of accredited hospitals may be obtained from the School for Graduate Studies and Research on the relevant campus. Some hospitals are accredited only for the Part I of the course; others are accredited to provide training during the Part II of the course for a specified time. A minimum of three (3) months in the first two (2) and three (3) months in the last two (2) years MUST be spent at the University-affiliated hospital of the campus territories.

5. During the first year, in those accredited hospitals where only adults are treated, students must spend no less than three months in an accredited paediatric hospital. Conversely, for students working in a hospital where only paediatric patients are treated, no less than six months must be spent in an accredited adult multi-disciplinary hospital. There must also be a minimum of three months exposure to obstetric anaesthesia and exposure to intensive care.

6. On acceptance into the programme there will be a six month probation period during which the student’s clinical and academic performance, and professional attributes, will be assessed. A candidate who fails this assessment will be requested to withdraw from the programme.

The programme consists of two parts-

DM Part I:

7. Part I is of two (2) year’s duration. It aims to ground the postgraduate student in the essentials and basic sciences that underpin the practice of Anaesthesia and Intensive Care. It includes extensive
basic and applied physiology and pharmacology, physics and relevant anatomy. Also there is an introduction to research methodology that informs the student of evidence-based medicine and its application to everyday clinical practice.

8. The subject areas will be taught in modules. There will be in-course assessments at the end of each module. Students who fail an assessment will be counseled and allowed to proceed to the next module. However they will have to repeat the assessment of the failed module before the next modular assessment becomes due. A second failure will require that the student NOT advance but have to repeat the entire module when this is next offered. This may be 6-12 months later. A third failure will result in the candidate being required to withdraw from the programme.

9. A cross-campus Internal Examination will be undertaken at the end of the first year (DM Part I, Year 1 examination). A satisfactory performance in this assessment is required before the student can advance to the second year of the programme. If a candidate fails this Internal Examination, depending on the degree of failure, he or she may be required to:
   a) undergo remedial study and repeat the examination in 6 months
   b) repeat the entire first year and then resit the examination

10. In either scenario, if the candidate is unsuccessful for the second time, he or she is required to withdraw from the course.

11. Provided that clinical competency, professionalism and in-course assessments are satisfactory, the DM Part I examination is taken at the end of the second year.

DM Part II:

12. Part II is of two (2) years’ duration and admission depends on a Pass performance in DM Part I Examination and satisfactory assessments of clinical competency and professionalism. It may include a period not exceeding one year, in the penultimate year, spent as an elective. Approval must be obtained from the Board for Graduate Studies and Research, through the Specialty Board and the Faculty Sub-Committee for Graduate Studies and Research, at least six months prior to the commencement of the elective period. The elective year may be spent in a hospital, which can provide the candidate with experience not readily available in the hospital to which he/she is employed. To gain credit for such an elective the candidate must submit a satisfactory assessment report from their named supervisor at the elective hospital.

13. A maximum of three (3) months may be spent in a course of study in an affiliated area e.g. research methodology, epidemiology, teaching methods or medical administration.

14. During Part II rotations must be undertaken through all anaesthesia subspecialties, Intensive Care and Acute and Chronic pain services. The anaesthesia subspecialties will include cardiothoracic, paediatric, obstetric, otorhinolarngology/faciomaxillary and neuroanaesthesia. Training in teaching methods and research methodology are integral components of the programme. Emphasis will also be placed on the responsibilities of professional practice, medical ethics and the law, health care management, information technology and independent practice.
15. A steady progression of specialty skills, judgment, professional and ethical responsibility and clinical independence is expected over the four years of training. Students are required to keep a record (log book) of all Anaesthesia and procedures performed. In addition they are required to satisfactorily complete a list of minimal competency in cognitive and procedural skills felt to be fundamental to the training of specialists in Anaesthesia and Intensive Care. Students will be expected to develop and maintain a system of continuous learning in order to keep abreast of major clinical and research developments.

16. All students should appreciate the need for on-going research in the field of Anaesthesia and Intensive Care and are required to complete and submit an original Clinical Research Project. Students will also be encouraged to become involved with research efforts of department/section members.

17. Satisfactory in-course assessments as per Part I must be achieved during the Part II for continued progress in the programme.

Exemptions

This section should be read in conjunction with the General Regulations - Doctor of Medicine.

18. Candidates who have completed periods of study or work experience in recognized hospitals or institutions in non-Commonwealth Caribbean territories may apply to the Campus Committee for Graduate Studies and Research through the Specialty Board and the Faculty Committee for Graduate Studies and Research Sub-committee for exemption from an appropriate part of the course. Exemptions in the programme can be recommended by the Specialty Board in Anaesthesia and Intensive Care only after a period of review and assessment of the student’s performance within the programme. Candidates must have achieved the level at which proposed exemptions will put them.

19. Exemptions from Part I may be allowed to those who hold the Fellowship in Anaesthesia of the British, Irish or Australian colleges, or the certificate of the American Board of Anaesthesiology or the Fellowship in Anaesthesia of the Royal College of Physicians in Canada or such other degrees or diplomas as the University (the Faculty Committee for Graduate Studies) may accept.

20. In order for such students to be eligible to sit the DM Part II examination, they are required to spend a minimum of two (2) years in the programme and fulfill all the requisite aspects of the Part II of the programme i.e. an acceptable Clinical Research Project submitted six (6) months prior to the final examination, an acceptable case log/minimal competencies and satisfactory assessments.

21. All requests for exemptions should be made in writing to the Specialty Board and appropriate recommendation(s) will then be made through the Faculty Sub-Committee for Graduate Studies and Research to the Campus Committee for Graduate Studies and Research.

Assessment

22. In-course assessments of the student’s performance will be carried out by his/her supervisor(s) or
module leader, at the end of each module and submitted every six (6) months to the Campus Committee for Graduate Studies and Research through the Faculty Sub-Committee for Graduate Studies and Research.

23. If the assessments are found to be unsatisfactory, the Specialty Board may recommend one or more of the following:
   a) Counseling and remedial work with the first failure
   b) Repeat of the unsatisfactory rotation(s) and academic warning in writing with a second failure
   c) Withdrawal from the programme, after a third failure

Clinical Research Project
24. All students must submit a Clinical Research Project to the Graduate Studies Office at least six months before the final (DM Part II) examination. It
   a) should form a distinct contribution to the knowledge of the subject presented
   b) must be of satisfactory literary standard and should attain standards suitable for publication in a peer reviewed journal
   c) should not exceed 20,000 words but must not be less than 8,000 words and the review of literature should not comprise more than 25% of the report
   d) must follow the University’s Guide for the Preparation of Theses, Research Papers and Project Reports
   e) must be typewritten and printed on one side only of good quality white bond paper (usually of 20lb. weight) 8½” 11” (Standard Letter Size), with left hand margin of 2”. The top, bottom and right hand margins should not be less than 1”. The same grade of paper should be used throughout the report
   f) should be carried out under the guidance of a supervisor appointed by the Campus Committee for Graduate Studies and Research on the recommendation of the Specialty Board.

25. Students are advised to discuss the preparation of Clinical Research Project with their Supervisor(s) while the book is in preparation and should not wait until it is completed. Every student will be required to pose relevant research question(s), formulate hypothesis(es), design an achievable Clinical Research Project, understand the statistical evaluation to be used and know how to draw valid conclusions. The project offers the students the opportunity to study in detail, an area of interest of their own choice and to express views based on personal investigation and on review of the literature which could be later developed for publication. From the project, the examiners will assess the critical faculties, powers of observation and the level of evaluation in the area of Anaesthesia &/or Intensive Care chosen by the student.

26. Following the submission of the Clinical Research Project, the examiners may:
   a) Accept the project and the student proceed to the examinations, or
   b) Accept the project with modification, which must be carried out in the time specified and resubmitted to Graduate Studies, or
c) Reject the project with recommendations regarding changes, additions, or revisions necessary for acceptance. A date for resubmission will be determined by the examination board in Anaesthesia and Intensive Care.

d) If the work is found to be unsatisfactory and requires major changes, the student will NOT be allowed to sit the final examination and will be deferred until the next sitting provided the resubmission is accepted.

**Case log and minimal competencies**

27. Students are required to keep a record of all Anaesthesia procedures performed. In addition they are required to complete a predetermined list of minimal competency in cognitive and procedural skills felt to be fundamental to the training of specialists in Anaesthesia and Intensive Care.

28. The following three (3) requirements MUST be completed before the student will be allowed to sit the DM Part II examination:
   a) A satisfactory standard of clinical competency, professionalism and in-course assessments
   b) Case log & minimal competencies
   c) Clinical Research Project

**Examinations**

29. Examinations are in two parts, Part I and Part II (DM Anaesthesia& Intensive Care). They are normally held twice per year in May/June and November/December and rotate amongst the three university campuses.

**Part I**

30. The Part I examination is held at the end of the Year 2 and comprises:
   a) a written paper and a multiple choice question paper
   b) an oral examination

31. Candidates will be invited to an oral examination depending on their performance on the multiple choice questions papers. Candidates receiving less than 45% on the multiple choice question papers will not be invited for the orals as this represents an irretrievable situation. On successful completion of Part I, continuation in the training programme will be dependent on the recommendation of the Specialty Board based on its continuous assessment and the results of the Part I examination.

**Part II**

32. Part II examination must be attempted for the first time within one year of acceptance of the Clinical Research Project.

33. The Part II examination comprises:
   a) two written papers
   b) a clinical examination
   c) an oral examination
34. Candidates MUST pass ALL papers/components of the examination to be deemed an overall pass, regardless of the cumulative score. However a score 47.5% or more but less than 50% in one component (except in the clinicals) is redeemable provided the performance in the other 2 components is above average.

Completion of the Programme
35. Students will be considered as having successfully completed the programme when the following FOUR requirements have been met:
   a) Satisfactory performance of all rotations.
   b) Acceptance of their certified case log/minimal competencies.
   c) Acceptance of the Clinical Research Project and submission of completed book
   d) Satisfactory performance in the Part I and II examinations

36. Failure to complete the programme in the prescribed times will require withdrawal from the programme.

37. Appeals by students against decisions taken by the Specialty Board in Anaesthesia and Intensive Care may be made as per general regulations – Doctor of Medicine.

The final grade in the DM Anaesthesia and Intensive Care is Pass/ Fail

LIST OF COURSES

Recommended

MEDC 6900 Essential Health Research Skills

Compulsory

MEDC 6623 DM Anaesthesia and Intensive Care Part I
MEDC 6624 DM Anaesthesia and Intensive Care Part II

Link to Course Descriptions
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DM (Emergency Medicine)

Requirements for entry
See general regulations – Doctor of Medicine.

1. Candidates are required to submit an on-line or written application and may be required to attend an interview to be eligible for selection to the programme.

Course of study
2. The postgraduate Emergency Medicine Programme is a four-year residency programme consisting of two parts. The programme takes place either at a Hospital or institution in the contributing territories recognized by the University for this purpose.

3. Six months each year are spent in Emergency Room rotations. The other six months are spent rotating through relevant subspecialty areas including anaesthesia, child health, internal medicine, surgery, orthopaedics, obstetrics and gynaecology, family medicine and psychiatry. Anaesthesia is mandatory as an early rotation in the first year. However, there is flexibility in the sequence of the rotations in the other disciplines. Where available, an Emergency Department rotation should be spent in an Emergency Ambulance Service. Radiology, ENT, and Ophthalmology are suggested internal electives.

4. Candidates are encouraged to do one of the two three-month A&E periods in the fourth year at an approved emergency room in a regional or international teaching hospital. A maximum of 6 months maybe spent outside of the Caribbean (A&E and elective). Overseas rotations can be undertaken with the approval of the Coordinator of the Emergency Medicine Programme. The specific yearly rotations for the campus of registration will be given in the Department’s Handbook.

5. Ideally, All Emergency Medicine residents should complete American Heart Association Advanced Cardiac Life Support (ACLS) and American College of Surgeons Advanced Trauma Life Support (ATLS) courses by the end of their first year of training. The Paediatric Advanced Life Support (PALS) or Advanced Paediatric Life Support (APLS) course should be completed during the second year of the programme. The Mass Casualty Management course must be completed prior to sitting the DM final examinations.

Exemption
This section should be read in conjunction with the General Regulations - Doctor of Medicine.

6. Candidates who have successfully completed periods of approved work experience in relevant areas at recognized hospitals or Institutions may apply to the specialty board for exemption. This experience may be in Accident & Emergency Medicine, Psychiatry, Internal Medicine, Orthopaedic Surgery, Family Medicine, Surgery, Child Health / Paediatrics, Obstetrics and Gynaecology and Anaesthesia. Exemption is not automatic and should not be assumed.
Assessment

7. Student performance will be assessed (by observation, orally or in writing) at the end of each rotation and will be recorded on prescribed forms. A satisfactory standard of in-course assessments is mandatory prior to taking the Part I and Part II examination.

8. Those with unsatisfactory records will be encouraged to improve and a warning letter issued; counselling and or remedial work may be recommended. An unsatisfactory performance in a rotation may require that it is repeated. If poor performance persists, the student will not be allowed to complete the programme and will be required to withdraw.

9. All DM Emergency Medicine candidates must submit both of the following to the Specialty Board or Coordinator of the postgraduate programme at least six months before the final Part II examination:

   a) A case book of ten cases. These cases should reflect the range of pathology seen in the practice of Emergency Medicine, and up to three may be rare cases of unique relevance that may have important educational content for journal publication.

   And

   b) A Clinical Research Project. This must be discussed with, and approved by the Programme Coordinator by the start of the second year of the residency programme.

10. The format of the case book/Clinical Research Project should conform to the University regulations dealing with the preparation of projects and dissertations. Each submission book or project should not exceed 15,000 words but must not be less than 8,000 words.

11. The cases/Clinical Research Project must be typewritten and printed on one side only of good quality white bond paper 8½” x 11” (standard letter size) with left hand margin of 2”. The top, bottom and right hand margins should not be less than 1”. The same grade paper should be used throughout the thesis. Case reports should follow the format of case reports submitted for journal publication, namely: introduction, case history, discussion, conclusion and references. References should follow the format of the West Indian Medical Journal. The case reports should be of high quality suitable for publication in a peer reviewed journal.

12. Following submission of the work, the examiners may:

   a) Accept the work allowing the student to proceed to the examination

   Or

   b) Reject the work, with recommendations regarding changes additions or revisions necessary for acceptance. The examiners will indicate a deadline for resubmission of the work.

13. The casebook/project report should be submitted for assessment at least six months before the date of the final examination. If the work is found to be unsatisfactory and requires major revision the student will not be allowed to sit the final examination and a new date will be set. The work must be checked using the Turnitin software by both the student and the supervisor before it is submitted and must be signed as being accepted by the supervisor before it is submitted.
Examination
14. There are two examinations, one each at the end of the Part I and the Part II. The clinical exam must be passed in all sections for the candidates to be awarded the DM degree in Emergency Medicine. Persistent demonstration of unsafe practices during the clinical or oral examination is an absolute ground for failure irrespective of grades up to that point.

DM Part I Examination
15. The Part I DM examination is designed to test the knowledge attitudes and skills of residents at the end of their second year of the DM programme, and not later than the end of the 3rd year of the DM programme. They must be able to apply basic science knowledge to clinical scenarios and communication skills.

16. The examination will consist of written, clinical and oral examinations.
   
a) The written examination will consist of two papers
   i. An MCQ paper of questions covering all five sections of the syllabus
   ii. A data Interpretation paper
   
b) The clinical examination in the form of an Objective Structured Clinical Examination.
   
c) The oral examination which covers all sections of the Part I course.

Candidates who fail all or part of the examination
17. For those candidates who fail all or part of the examination, the examiners will decide on the procedure for remediation. The examiners will decide whether the candidate can be allowed to repeat the examination in six (6) months’ time and proceed to their third year or whether they should be advised to repeat it in 1 (one) year. In general, candidates who have only failed one component of the examination will be allowed to re-sit in six (6) months, while candidates who have failed more than one of the components will be required to re-sit in 1 (one) year’s time.

These decisions are at the discretion of the examiners.

DM Part II Examination
18. Candidates will be eligible to sit the Part II examination two years but not greater than three years after successful completion of the Part I examination.

19. The following two requirements must be met before the Part II examination.
   
a) Reach satisfactory standard in on-going assessments.
   b) Submission of an accepted casebook and a research report
   c) Discussion of the Case book/Clinical Research Project (an oral examination). This section provides feedback on any areas of the casebook and research project requiring clarification but is not included in the mark total of the final DM exam.
20. The Part II examination consists of the following components:
   a) The written paper (Modified essays and data interpretation)
   b) Clinical Examination (long case plus short cases/OSCE)
   c) Oral examination (clinical plus non-clinical situations)

There are only two attempts at sitting each part of the DM Emergency Medicine examination and failure at both attempts requires the student to withdraw from the programme. The student may not reapply to the programme after withdrawal before a period of three years.

**Completion of the Programme and award of Degree**
21. Students will be considered as having completed the programme and eligible for the award of the DM degree when the following requirements are met
   a) Satisfactory performance of all rotations
   b) Acceptance of the Case book and Clinical Research Project
   c) Satisfactory performance in the Part I and Part II examinations

The final grade in the DM Emergency Medicine is Pass / Fail

**LIST OF COURSES**

**Recommended**

MEDC 6900  Essential Health Research Skills

**Compulsory**

MEDC 6705  DM Emergency Medicine Part I
MEDC 6710  DM Emergency Medicine Part II

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**Postgraduate Diploma in Family Medicine**

**Requirements for Entry**
1. Candidates will be eligible for entry to the Postgraduate Diploma after completing their internship.

2. Candidates must be registered medical practitioners employed in an approved primary care (public or private) for the duration of the Programme. They must be able to be released from duties on a regular basis to attend prescribed clinical sessions and at intervals for workshops.

3. Candidates must be computer literate and have access to an internet-linked computer.

4. Candidates may be required to attend an interview to be eligible for selection to the programme.

**Course of Study**
5. The Postgraduate Diploma is a 2-year course which is equivalent to years 1 and 2 of the DM Family Medicine.

6. The programme consists of twelve modular courses which may be delivered by distance education methods as well as mandatory Family Medicine and Specialist clinic sessions.

**Assessment**
7. Each student is required to maintain a portfolio consisting of:
   a) All assignments from the completed modules,
   b) Completed evaluation forms recording performance and attendance at clinic sessions,
   c) Evidence of attending CME sessions, and a report of each session attended, and
   d) Reflections on his/her learning.

8. Modules are graded based on coursework. Upon completion of a module, if a student does not achieve a passing grade he/she will be allowed to repeat the assignments of that module. If the student still does not achieve a passing grade, he/she would be deemed to have failed the module and will have to repeat the module in the following year.

9. Clinical sessions will be assessed on attendance and performance.

10. If the assessment of the student is found to be unsatisfactory, the Specialty Board may recommend one or more of the following:
    a) Counselling/academic warning in writing,
    b) Remedial work,
    c) Repeating the unsatisfactory modules/rotations, or
    d) Withdrawal from the programme
11. Students will be permitted only one repeat of each module and one repeat of each clinical attachment.

**Examinations**

12. Students are assessed by examination for the Postgraduate Diploma at the end of two years. There is a written paper and a Clinical Examination.

13. Students who come to the end of Year 2 and have modules or clinical attachments to repeat will have to defer the taking of End of Year 2 examinations to the following year.

14. Each section of the programme needs to be passed and carries the following weighting:

   a) Portfolio  
   b) Examination (Clinical)  
   c) Examination (Written)  

15. If a student fails the written or clinical examinations, he/she would be required to re-sit the part failed within 12 months.

16. Students will be permitted only one re-sit of the clinical and written examinations, and will have a maximum of 3 years to complete the Postgraduate Diploma.

17. Students must pass all modules, clinical attachments, and all examinations within the stipulated time period, to be awarded the Postgraduate Diploma.

18. Students who have failed three modules in a year will normally be required to withdraw from the Programme.

19. The Postgraduate Diploma will be awarded with Distinction to students who obtain 70% or better on each of the Portfolio, clinical and written examination sections, and who have not failed a module or examination.

The final Grade in the Postgraduate Diploma in Family Medicine is Pass/Fail.

**LIST OF CLINIC SESSIONS REQUIRED** (A clinic session is defined as 4 hours of supervised work)

**Family Medicine**
- 30 clinic sessions

**Specialist Sessions**
- Internal Medicine
- Paediatrics
- Dermatology
- General Surgery
• Orthopaedics
• Obstetrics and Gynaecology
• Psychiatry
• Emergency Medicine
• ENT or Ophthalmology

Details on the number of specialist sessions required will be issued by the relevant department at the start of the programme.

LIST OF MODULES
Year 1
• Teaching and Learning in Primary Care
• Evidence Based Medicine
• The Consultation and Communication
• Medical Ethics and the Doctor – Patient Relationship
• Health Promotion, Screening and Risk Assessment
• Chronic Disease in Primary Care

Year 2
• Human Sexuality and STDs
• Child Health
• Gender Issues / Women’s Health
• Care of the Elderly
• Mental Health / Counselling
• Medico-legal issues

LIST OF COURSES

MDFA 6000  Postgraduate Diploma in Family Medicine

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**MSc Family Medicine**

**Requirements for Entry**
1. Candidates will be eligible for entry to the MSc in Family Medicine after completing the Postgraduate Diploma in Family Medicine.

2. Candidates must be medical practitioners employed in primary care (public or private) for the duration of the Programme and be able to be released from duties on a regular basis to attend prescribed clinical sessions and at intervals for workshops and block teaching.

3. Candidates must be computer literate and have access to an internet-linked computer.

4. Candidates may be required to attend an interview to be eligible for selection to the programme.

**Course of Study**
5. The MSc is a 1-year course which is equivalent to year 3 of the DM Family Medicine.

6. The programme consists of four modules which may be delivered by distance education methods, the preparation of a research proposal, as well as mandatory Family Medicine and Specialist clinic sessions.

**Exemption**
7. Students who have completed periods of study in Family Medicine in approved hospitals or institutions may apply through the Specialty Board and the Faculty Sub-Committee for Graduate Studies and Research for exemption from the appropriate section of the programme.

**Assessment**
8. The following weighting applies:
   a) Module assignments 20%
   b) Research Proposal 40%
   c) Written Examination 40%

**Module assignments**
9. Modules are graded based on assignments completed. Upon completion of a module, if a student does not achieve a passing grade he/she will be allowed to repeat the assignments of that module. If the student still does not achieve a passing grade, he/she would be deemed to have failed the module and will have to repeat the module in the following year.

**Research Proposal**
10. Students are required to submit a research proposal toward the end of the year and to defend it at their final examination.

**Written Examination**
11. Students who come to the end of the MSc Year and have modules or clinical attachments to repeat will have to defer the taking of MSc examinations to the following year.
12. In order to be eligible to sit the final examination, the student must have passed all modules and clinical attachments. Clinical attachments are assessed on attendance and performance. The marking scheme for clinical attachments is Pass or Fail.

13. The written examination consists of 2 papers – an MCQ paper and an essay paper.

14. If the assessment of a student is found to be unsatisfactory, the Specialty Board may recommend one or more of the following:

   a) Counselling/academic warning in writing,
   b) Remedial work,
   c) Repeating the unsatisfactory modules/rotations, or
   d) Withdrawal from the programme

15. Students will be permitted only one repeat of each module and one repeat of each clinical attachment.

16. Students are required to pass all modules, clinical attachments and examinations within the stipulated time period to be awarded the MSc.

17. Students will not normally be allowed to continue MSc beyond 2 years.

The final Grade in the MSc in Family Medicine is Pass/Fail

LIST OF MODULES

Compulsory
  • Research Methods
  • Statistics

In addition 2 modules relevant to Family Medicine will be done.

LIST OF CLINIC SESSIONS REQUIRED (A clinic session is defined as 4 hours of supervised work)
Family Medicine clinic sessions to be completed

  • 30 clinic sessions.

Specialist Clinic sessions to be completed (Details on the number of sessions required will be issued by the relevant department at the start of the programme)

  • ENT or Ophthalmology
  • Elective
LIST OF COURSES

MEDC 6642  MSc in Family Medicine

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Link to Subject codes and Descriptions
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DM (Family Medicine)

Requirements for Entry

See general regulations – Doctor of Medicine.

1. Candidates are eligible to for entry to the DM on successful completion of the Postgraduate Diploma in Family Medicine (equivalent to Part 1 of the DM) and/or MSc in Family Medicine (equivalent to Part II) subject to Specialty Board approval. Successful applicants who are holders of the Postgraduate Diploma in Family Medicine will proceed directly to the DM Part 2 and those who are holders of the MSc in Family Medicine will proceed directly to the DM Part 3.

2. Admission to the DM for holders of the Postgraduate Diploma /MSc Family Medicine is not automatic and applications for direct entry will only be considered if a post is available at the hospital or institution accredited by the campus of the programme for the purpose.

3. Candidates may be required to attend an interview to be eligible for selection to the programme.

Course of Study

4. The DM in Family Medicine is a four year residency programme. The programme consists of three parts.

Part I (see Course of Study – Postgraduate Diploma in Family Medicine)

5. Part I of the DM programme is of two years duration. It is identical to the Postgraduate Diploma programme except for the clinical aspect. Residents in the DM must be employed at a hospital accredited by the campus of the programme for the purpose, and will do clinical rotations in both Family Medicine and hospital-based specialist areas. The schedule of clinical rotations will be supplied by the department on entry to the programme.

6. Residents must successfully complete Part 1 before being permitted to advance to Part II.

Part II (see Course of Study – MSc Family Medicine)

7. Part II of the DM programme is of one year’s duration. It is identical to the MSc programme except for the clinical aspect. Residents in the DM must be employed at a hospital accredited by the campus of the programme for the purpose, and will do clinical rotations in both Family Medicine and hospital-based specialist areas. The schedule of clinical rotations will be supplied by the department on entry to the programme.

8. Residents who do not successfully complete Part II at first attempt will be allowed one additional attempt. Residents who successfully complete Part II are awarded the MSc Family Medicine.

9. Residents must successfully complete Part 2 before being permitted to advance to Part III.
Part III

10. Part III is of one year’s duration and is spent in an approved training area. It includes either:

   a) A research project with a project report;
      OR
   b) A case book of twenty cases with commentaries.

11. The alternative must have been previously agreed on and the work carried out under the guidance of a supervisor appointed by the Board.

12. The maximum period of registration for the DM programme is eight years including any years spent in the Postgraduate Diploma in Family Medicine and the MSc Family Medicine.

Exemption

13. Residents who have been fully registered as medical practitioners for more than one year may apply for exemption from the relevant parts of the course. Residents who have been registered for five or more years may apply for modification of the training programme, but their practice organisation must be acceptable to the Board and they will be required to undertake special courses (including attendance at approved hospitals) specified by the Board.

14. Residents who have completed periods of study in Family Medicine in approved hospitals or institutions may apply through the Specialty Board and the Faculty Sub-Committee for Graduate Studies and Research for exemption from the appropriate section of the programme.

15. Exemption is not automatic and should not be assumed.

Assessment (DM Part I)

Read in conjunction with Assessment – Postgraduate Diploma in Family Medicine

16. Each section of the programme needs to be passed and carries the following weighting:

   a) Portfolio 30%
   b) Examination (Clinical) 40%
   c) Examination (Written) 30%

17. The completed module assignments, record of satisfactorily completing the clinical rotations, CME attendance and reflections together constitute the portfolio.

18. Modules are graded based on assignments set. Upon completion of a module, if a student does not achieve a passing grade he/she will be allowed to repeat the assignments of that module. If the student still does not achieve a passing grade, he/she would be deemed to have failed the module and will have to repeat the module in the following year.
Examination (DM Part I)
19. **Read in conjunction with Examination – Postgraduate Diploma in Family Medicine**

20. The DM Part I is assessed by examination at the end of two years. There is a written paper and a Clinical Examination. Residents must pass all modules, clinical rotations and all examinations to pass Part I. If a resident fails the written or clinical examinations, he/she would be required to re-sit the part failed within 12 months.

21. Residents will be permitted only one re-sit of the clinical and written examinations, and will have a maximum of 3 years to complete the Postgraduate Diploma.

22. Residents who come to the end of Year 2 and have modules or clinical rotations to repeat will have to defer the taking of End of Year 2 examinations to the following year.

Assessment (DM Part II)
**Read in conjunction with regulations under Assessment – MSc in Family Medicine**
23. The DM Part II is assessed by coursework done in year 3 of the programme and by examination at the end of year 3.

24. Residents are required to submit a research proposal toward the end of the year and to defend it at their final examination.

25. The following weighting applies to Part II of the DM Family Medicine:
   a) Module assignments 20%
   b) Research Proposal 40%
   c) Written Examination 40%

26. Modules are graded based on assignments completed. Upon completion of a module, if a student does not achieve a passing grade he/she will be allowed to repeat the assignments of that module. If the student still does not achieve a passing grade, he/she would be deemed to have failed the module and will have to repeat the module in the following year.

Examination (DM Part II)
**Read in conjunction with Examination – MSc in Family Medicine**
27. Residents who come to the end of Year 3 and have modules or clinical rotations to repeat will have to defer the taking of End of Year 3 examinations to the following year.

Assessment and Examination (DM Part III)
28. Assessment for the DM Part III is in two parts:
   a) Defence of the project report / casebook as appropriate, and
   b) A Clinical Examination

Students must also satisfactorily complete all clinical work.
29. Following the submission of the project report or case book at the end of the fourth year by a deadline set by the University Examiner, and defense of this at an oral examination the examiners may:

   a) Accept the work, making the candidate eligible for the award of the degree of DM Family Medicine,
   b) Accept the work pending corrections to the project report or case book within a stipulated time period. The candidate will be eligible for the award of the degree of DM Family Medicine once the examiners have approved the corrections, OR
   c) Reject the work, and indicate what additional or new work needs to be carried out and when the work must be resubmitted.

30. Residents are required to both the clinical examinations and Clinical Research Project or case reports within the stipulated time period to be awarded the D.M.

   The final grade in the DM Family Medicine is Pass/Fail

**LIST OF COURSES**

- MEDC 6667  DM Family Medicine Part I
- MEDC 6668  DM Family Medicine Part II
- MEDC 6669  DM Family Medicine Part III

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**DM (Internal Medicine)**

**Introduction**

1. The aim of the DM in Internal Medicine is to train doctors in the specialty of Internal Medicine to a level that allows them to provide clinical and academic leadership, and administrative support to their respective Medicine Departments. Successful D.M. candidates will practice at the level of consultants in General Internal Medicine.

**Requirements for entry**

*See general regulations – Doctor of Medicine.*

2. Applicants for entry to the DM Internal Medicine programme should, in addition to the general requirements, have had at least one year post internship work experience of which six months should have been spent in General Internal Medicine in an approved institution/hospital working under the supervision of an internist with specialty training in internal medicine. The other six months should have preferably been spent working in an Accident and Emergency department or primary care setting. Candidates will not normally be eligible for entry until 24 months from the start of their internship.

**Course of Study**

3. The DM programme in Internal Medicine is a four-year programme and consists of two parts as follows:

**Part I (Years 1 and 2)**

4. Part I is of two years’ duration and includes one year in General Internal Medicine in approved institutions where the students will be working in both in-patient and out-patient settings under the supervision of senior residents and consultants.

5. During Year 2, the resident is assigned to a rotation in sub-specialties at approved hospitals or institutions. The residents pursue rotations in the core subspecialties. The residents should have exposure to all core subspecialties before the end of the second year.

**Part II (Years 3 and 4)**

6. Part II is of two years’ duration. Year 3 (the elective year) students will be substantially engaged in acquiring research skills while continuing clinical work. Students will be required to do their Clinical Research Project during this year.

7. This elective year allows the resident the choice of spending it either at the Primary hospital or at any other approved institution within the Caribbean region or outside. The residents are allowed to select the clinical or laboratory area they would like to work in. Specialty Board approval of the elective is required.

8. During Year 4, the residents return to the Primary hospital where they will acquire further intensive training in General Internal Medicine.
Exemption

9. Students who have completed periods of study in Internal Medicine in approved hospitals or institutions may apply through the Specialty Board and the Faculty Sub-Committee for Graduate Studies and Research for exemption from the appropriate section of the programme.

Assessment

10. Each student will be assessed every six months. During years one, two and four, the students will be assessed at the end of each rotation by the consultant with whom they have worked during that rotation. During the elective year (year three) the student will be assessed by the supervisor of their elective.

11. If the assessments are found to be unsatisfactory, the Specialty Board may recommend one or more of the following:
   a) Counselling
   b) Remedial work
   c) Repeating the unsatisfactory rotations with consequent delay of the examination.
   d) Withdrawal from the programme, if poor performance persists

Clinical Research Project

12. All Students will be required to do a Clinical Research Project for publication. This project should have been previously agreed on by the Specialty Board during the Part I programme and the project commenced in Year 3 under the guidance of a supervisor appointed by the Specialty Board or the Head of the Department or the Coordinator of the programme.

13. The Clinical Research Project should not exceed 20,000 words and the format should conform to the University Regulations dealing with the preparation of projects and dissertations. The Clinical Research Projects must be typewritten and printed on one side only of good quality white bond paper (usually of 20lb. weight) 8½" x 11" (Standard Letter Size), with left hand margin of 2". The top, bottom and right hand margins should not be less than 1". The same grade of paper should be used throughout the project.

14. Following the submission of the work, the Head of the Department or Coordinator of the programme will appoint reviewers or examiners who may:
   a) Accept the work allowing the student to proceed to the examination, or
   b) Reject the work, with recommendations regarding changes, additions, or revisions necessary for acceptance. The examiners will indicate a deadline for resubmission of the work.

15. The Clinical Research Project should be submitted for assessment at least six months before the date of the final examination. If the work is found to be unsatisfactory and requires major revision the students will not be allowed to sit the final examination and a new date will be set.

Examination

16. The DM Medicine examination consists of two parts: Part I and Part II.
DM Part I
17. The Part I examination is taken at the end of two years. Once the candidates have progressed satisfactorily through the first two years of the training programme (including satisfactory examinations and monthly assessments) they are allowed to take the Part I DM examination. This consists of:

   a) Written papers (Paper I - multiple choice questions, and Paper II - essay)
   b) A clinical examination (objective structured format)

18. The candidate must pass all parts of the examination that is Paper I, Paper II and the clinical examination. Students will not be allowed to proceed to Year 3 of the programme until they have passed the Part I examination. Students are allowed two attempts at the Part I examination.

DM Part II
19. The Part II examination will be taken at the end of Year 4 of the programme. Having passed the Part I examination and then satisfactorily completed Years 3 and 4 in a similar manner to years 1 and 2 above, the candidate progresses to Part II of the examination. This examination consists of:

   a) Written papers (Paper I - multiple choice questions, and Paper II - essay)
   b) A clinical examination (objective structured format)
   c) An oral examination.

20. Candidates must pass all parts of the examination, that is, Paper I, Paper II, clinical and oral examinations. Candidates who fail to satisfy the examiners in Part II of the examination at the first attempt will be required to make one further attempt within one year and if unsuccessful will be required to withdraw.

   The candidate must not defer either Part 1 or Part 2 examinations without permission from the Specialty Board and normally the examinations should not be deferred for more than six months.

The final grade in the DM Internal Medicine is Pass/Fail.

LIST OF COURSES

Recommended
MEDC 6900  Essential Health Research Skills

Compulsory
MEDC 6655  DM Internal Medicine Part I
MEDC 6656  DM Internal Medicine Part II

Link to Course Descriptions
Link to Subject codes and Descriptions
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DM (Obstetrics & Gynaecology)

Requirements for entry

See general regulations – Doctor of Medicine.

1. In addition to the general regulations, candidates will not be eligible for entry until at least one full year after completing their internship and must have had at least six months post-internship experience in general surgery and general medicine or child health in an approved hospital. Six months experience in Obstetrics and Gynaecology (post-internship) will count for up to three months’ experience in general surgery. Experience in Accident/Emergency/Casualty (post internship) will count for up to three months’ experience in general medicine or surgery.

Course of Study

2. The course of study will be a minimum of four years from the date of entry and is divided into two parts.

3. Part I is of one year’s duration and admission to the second part depends upon satisfactory performance in the Part I examination at the end of this period.

4. Part II is of three years duration and may include an elective period of six months in a related discipline or in an approved hospital or institution provided that approval has been obtained from the Specialty Board beforehand.

5. At least three years of the course must be spent in the Commonwealth Caribbean. Throughout the course, the student must hold recognized posts in accredited hospitals or be on an “Elective” approved by the Specialty Board.

Exemption

6. No exemption will be given for training in the DM Obstetrics and Gynaecology programme.

Assessment

7. Students will be assessed (by observation, orally or in writing) at the end of each rotation and the assessment will be recorded on prescribed forms. A satisfactory standard of in-course assessments is mandatory prior to taking the Part I and Part II examinations.

8. Those with unsatisfactory records will be encouraged to improve and a warning letter issued; counselling and/or remedial work may be recommended. An unsatisfactory performance in a rotation may require that it is repeated. If poor performance persists, the students will not be allowed to complete the programme and will be required to withdraw.

Case Book / Clinical Research Project

9. All students must submit to the relevant Specialty Board or Coordinator of the Postgraduate programme at least six months before the final (Part II) Examination, either:
a) A casebook of twenty cases (ten obstetrical and ten gynaecological) and two major commentaries limited to 3,000 words each. The major commentaries should be based on a Clinical Research Project approved by the student’s supervisor and must include references to the literature. Students are advised to discuss the preparation of case records and commentaries with their consultant or supervisor, while the book is in preparation and not wait until it is complete. From these records, the examiners will assess the critical faculties of candidates, their powers of observation and their evaluation of various methods of treatment. The long obstetrical and gynaecological commentaries offer students the opportunity to study in detail, conditions of their own choice and to express views formed from personal investigation and on a study of the literature. These commentaries could provide the opportunity to conduct a Clinical Research Project on clinical material within the department to be later developed into a publication, or

b) A Clinical Research Project or a research paper. The alternative must have been previously agreed on by the Specialty Board and the work carried out under the guidance of a supervisor appointed by the Board.

10. Following the submission of the work, the examiners may

   a) accept the work, and the candidate proceed to the examination, or
   b) reject the work, and they will then outline what additional or new work is required and when the work should be resubmitted.

Examination

11. Examinations are in two parts: Part I and Part II (Final). No candidate will be allowed more than two attempts at either examination.

   a) The Part I Examination is held after completing one year in the DM programme but no later than having completed two years in the programme and comprises two written papers in Obstetrics and Gynaecology and related disciplines in the Basic Sciences.

   Candidates must pass both written papers to be awarded a Pass.

12. Entry to Part II is dependent on satisfactory completion of the Part I.

13. The Part II Examination consists of:

   a) Two written papers
   b) And a Structured Extended Oral Examination (SEOE) consisting of:
      1. a Section for Obstetrics &
      2. a Section for Gynaecology

   Candidates must pass both written papers and both sections of the SEOE examination to be awarded a Pass.
14. The Part II examination must be attempted for the first time 3 years after successfully completing the Part 1 examination but no later than 4 years after successfully completing the Part 1 examination.

15. The Part II Examination must be taken within one year of the submission of the Clinical Research Project or case book.

16. The Part II examination must be completed within 12 months of the first attempt.

The final grade in the DM Obstetrics & Gynaecology is Pass/Fail.

LIST OF COURSES

**Recommended**

MEDC 6900  Essential Health Research Skills

**Compulsory**

MEDC 6630  DM Obstetrics & Gynaecology Part I
MEDC 6635  DM Obstetrics & Gynaecology Part II.

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**DM (Ophthalmology)**

**Requirements for entry**

*See general regulations – Doctor of Medicine.*

1. In addition to the general regulations, candidates will not be eligible for entry until at least one full year after completing their internship and must have had at least six months post-internship experience in an approved post in Ophthalmology in an approved hospital.

2. The regulations are similar to General Surgery except for the course of study and examinations as indicated below:

**Course of Study**

3. The programme consists of three parts (Part I, Part II, Part III) over a minimum of six years - Part I involves basic sciences and is done in the 2nd year. Part II involves Optics and Refraction and is done in the 3rd year and Part III covers year 4-6 and the examination is sat after the overseas elective is completed. This programme takes place at the Hospital accredited by the relevant Campus for this purpose. The final year of the programme should be undertaken as an elective at an institution outside of the Caribbean.

4. Research will be an integral part of the programme.

**DM Part I**

5. This will involve basic sciences studies with an emphasis on the eye.

6. Part I lasts two years leading to an examination in which an adequate standard of performance is required before the candidate can proceed to the second Part II of the programme.

**DM Part II**

7. This year is spent improving the skills of optics and refraction. It is advisable that candidates start practicing this skill from year I. During this period the student will continue to gain clinical and surgical ophthalmology skills.

8. At the end of the Part II year there will be an examination in which an adequate standard of performance is required before the candidate can proceed to the third part (Part III) of the programme.

**DM Part III**

9. This final part consists of three years for the enhancement of surgical skills. At least two of these years must be spent at the Hospital accredited by the relevant Campus for this purpose, and one year as an elective period (approved by the Specialty Board) must be spent at an overseas institution.

10. Students will be expected to cover all aspects of medicine, therapeutics and surgery for the eye, adnexae and visual pathways.
Assessment

See Regulations for Surgery – General.

Log Book

11. All candidates must maintain a surgical logbook, which will be assessed quarterly.

Casebook

12. Each candidate must collect 10 cases for the case book. These cases must cover the breadth of Ophthalmology including at least one case from each sub-specialty area listed below:

   a) Cataract and Refractive Surgery
   b) Cornea
   c) Glaucoma
   d) Paediatrics
   e) Uveitis
   f) Orbit, Oculoplastics, Adnexal and Lacrimal
   g) Neuro ophthalmology
   h) Ocular motility/ Strabismus
   i) Medical Retina
   j) Surgical Retina

13. See Regulations for DM Surgery – General for details on the case book. The format of the casebook/project report should conform to the University regulations dealing with the preparation of projects and dissertations. Case reports should have a word count of 1500 words. Therefore a case book of 10 cases should not exceed 20,000 words but must not be less than 15,000 words. The cases/project report must be typewritten and printed on one side only of good quality white bond paper (usually 20lb. weight) 8 ½” x 11” (Standard Letter Size), with left hand margin of 2”. The top, bottom and right hand margins should not be less than 1”. There must be a double line spacing for case reports. The same grade of paper should be used throughout the thesis. Case reports should follow the format of case reports submitted for journal publication, namely: introduction, case history, discussion and conclusion. References should follow the format of the West Indian Medical Journal.

14. Following the submission of the work, the examiners may

   a) Accept the work allowing the student to proceed to the examination.
   or
   b) Reject the work, with recommendations regarding changes, additions or revisions necessary for acceptance. The examiners will indicate a deadline for resubmission of the work.

15. The casebook should be submitted for assessment at least six months before the date of the final examination. If the work is found to be unsatisfactory and requires major revision the student will not be allowed to sit the final examination and a new date will be set – see General DM regulations.
Examination

DM Part I
16. The Part I examination will be undertaken after two years in the programme and consists of:

   **Section A:** Principles of Ophthalmic Surgery

   **Section B:** Anatomy of the head and neck (including embryology and neuro anatomy) basic and ocular pathology including microbiology and biochemistry physiology of eye, adnexae, CNS including related general physiology, and General Medicine in association with ocular pathology.

17. Candidates must pass Section A and pass all parts of Section B to qualify for entry into the second part (Part II) of the programme.

18. Candidates who have not completed the Part I examination within one calendar year of the first sitting of the examination will be required to withdraw from the programme.

DM Part II Examination
19. This exam will be undertaken at the end of the 3rd year in the programme, provided that the candidate has satisfactorily passed their assessments.

   **Section A:** Basic Optics (Principles of Instrumentation) & Theory of Refraction (MCQ’s)

   **Section B:** Practical Refraction exam & OCSE

20. The candidate must pass the Practical Refraction and OSCEs in order to pass the Part II examination.

DM Part III Examination
21. The Part III examination will be undertaken at the end of the 6 years of training, provided that the candidate has:
   a) Successfully passed the Part I and II Examinations
   b) Satisfactorily completed their one year overseas elective period
   c) Satisfactorily completed their Casebook and Clinical Research - for students entering the programme in the academic year 2013/2014 onwards. *Students in the programme prior to 2013 may either do a casebook of 20 cases or a substantial prospective research study which is of a publishable standard. The research project would need to be started no later than the 2nd year of the programme.*
   d) Received acceptance of their certified list of required operative procedures

22. The Part III Examination will consist of 3 parts:
   a) Essay Paper
   b) Oral Examination
   c) Clinical Examination including OSCEs
The OSCE stations will include but not be limited to:
   a) Anterior Segment
   b) Neuro ophthalmology
   c) Strabismus
   d) Posterior Segment

23. **Candidates must pass all sections of the OSCE to pass the Part III examination. All 3 sections of the Part III must be passed in order to attain a pass at the Part III level.** If the candidate has to re-sit the examination, he will need to re-sit the whole examination, not only the parts that were failed.

24. **No candidate will be allowed more than 2 attempts at any one examination.** Failure after the second attempt will necessitate withdrawal from the programme. **The student may not reapply to the programme after withdrawal.** The final Part III examination must be taken within one year of submission of the completed Case book.

**Special Note for ALL candidates commencing the programme from July 2013 onwards:**

25. The requirements for a candidate entering from July 2013 onwards, to sit the final Part III exam will include:
   a) A completed CLINICAL RESEARCH PROJECT(to be started before and no later than Year 2), and
   b) A completed Case book with 10 cases.

26. This will replace the Case book of 20 cases and must be submitted no less than 6 months before the planned date of the final examination.

The final grade in the DM Ophthalmology is Pass/Fail.

**LIST OF COURSES**

**Recommended**

MEDC 6900  Essential Health Research Skills

**Compulsory**

MEDC 6661  DM Ophthalmology Part I
MEDC 6662  DM Ophthalmology Part II
MEDC 6663  DM Ophthalmology Part III

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DM (Orthopaedic Surgery)

Requirements for entry
See general regulations – Doctor of Medicine.

1. The applicant must have successfully completed the Part I programme in DM General Surgery which is a two year programme.

DM Part II – Four Years

2. During this period, each resident will complete rotations at the Hospital accredited by the relevant Campus for this purpose. Up to one year’s elective may be spent at institutions in or out of the Caribbean provided prior approval is obtained from the Specialty Board in Surgery. Such approval must be obtained at least six months prior to the commencement of the elective. The elective period is limited to the penultimate year only.

3. The final year of the Part II programme must be spent at the University Hospital of the West Indies. The resident will be exposed to all aspects of orthopaedics: adult and paediatric trauma, joint arthroplasty, tumours, spine, infection, sports medicine, arthroscopy, limb lengthening and correction of deformities, non-traumatic adult and paediatric conditions and pain management.

Research

4. Each resident must complete a research paper before being recommended for the Part II examination in orthopaedics. Where applicable, the research paper will be presented as indicted in the departmental handbook.

Assessment

5. Residents’ performance will be assessed (by observation, orally or in writing) at the end of each rotation (six months) and recorded on prescribed forms. A satisfactory standard of in-course assessment is mandatory prior to taking the Part II examination.

6. A resident with an unsatisfactory evaluation in a rotation may be required to repeat the rotation. The resident will be encouraged to improve: counseling, and/or remedial work may be recommended. If poor performance persists, the resident will not be allowed to complete the programme and will be required to withdraw.

7. At the six monthly evaluation residents will be given the opportunity to discuss their assessments.

Assessment of the programme and consultants by residents

8. Constructive criticisms are encouraged. This will help the ProgrammeCoordinator in his discussions with the consultants.

Part II Examination

9. The following requirements must be completed before the resident is eligible to take the Part II Examination:
a) A Clinical Research Project
b) Satisfactory performance of all rotations
c) Acceptance of their certified list of operative procedures
d) Acceptance of a case book, research thesis or Clinical Research Project

10. The Part II Examination consists of:

   a) Two written papers
   b) An oral examination which may include clinical material

The final grade in the DM Orthopaedic Surgery is Pass/Fail.

LIST OF COURSES

Recommended

MEDC 6900 Essential Health Research Skills

Compulsory

MEDC 6612 DM Orthopedic Surgery Part II

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DM (Paediatrics)

Requirements for entry

See general regulations – Doctor of Medicine.

1. Applicants should have a minimum of three months post internship experience in paediatrics at an approved hospital under supervision. This three month period is additional to the period of three months of paediatric training required during the internship period.

2. Upon applying for admission to the programme, applicants will be required to submit a written application and attend an interview to be eligible for selection to the programme.

Course of Study

3. The DM Paediatrics programme is a four year post graduate course which aims to provide the graduate with the knowledge and skills to function as a consultant paediatrician, equipped for independent practice in the community and hospital based settings.

4. There are two parts to the course – Part I (Years 1 and 2) and Part II (years 3 and 4). During the first two years of training, the student will have rotations in in-patient, neonatal care, and ambulatory settings. The core content of training includes basic sciences as applied to general paediatrics, normal growth and development, common primary care problems and emergencies, common subspecialty problems, public health issues and basic research methods and skills.

5. Years 3 and 4 of training encompass learning of the pathophysiologic mechanisms related to growth, development and disease, clinical exposure and training in the subspecialties, development of leadership skills and professional qualities, completion of the required Clinical Research Project and a six month elective period.

6. On acceptance to the programme there will be a six month probation period during July to December of Year 1. During this period the candidate’s performance will be assessed at regular intervals. Any candidate who fails the overall assessment or who demonstrates professional misconduct, during this period of probation will be required to withdraw from the programme.

7. Usually, all of the time in the DM training program, except the elective period is spent at the Hospital accredited by the relevant Campus for this purpose.

8. Trainees are required to participate in all of the academic/training activities of the Department of Paediatrics at the Hospital accredited by the relevant Campus for this purpose.

9. An elective period of up to six months is to be taken during Years 3 to 4 after successfully completing the Part I examination. This elective period must be approved by the relevant Specialty Board prior to commencement. Application to proceed on this elective period must be made in writing to the relevant Specialty Board at least two months before the beginning of the scheduled electives. The objectives of this elective period, a schedule of activities and the named supervisors during this period must be detailed in this application.
Assessment

10. Continuous assessment of the candidate’s academic, clinical and professional performance is coordinated by the Program Coordinator. Continuous assessment in their penultimate and final years will include long case assessments which will contribute to the final mark of their clinical examination.

11. If the assessments of the candidate are found to be unsatisfactory, the relevant Specialty Board may recommend one or more of the following:

   a) Counselling
   b) Remedial work
   c) Repeat the unsatisfactorily done rotations
   d) Withdrawal from the programme

Clinical Research Project

12. The candidate must submit a Clinical Research Project on Child and/or Adolescent Health or a related area by November 30th of the second academic year following successful completion of the DM Part I.

13. The Clinical Research Project should form a distinct contribution to the knowledge of the subject presented. It must be of satisfactory literary standard and should attain standards suitable for publication in a peer reviewed journal. The Clinical Research Project should not exceed 20,000 words and must follow the University’s Guide for the Preparation of Theses, Research Papers and Clinical Research Projects.

14. The Clinical Research Project must be checked by the candidate and his/her supervisor, using the method currently recommended by the University, to ensure that no plagiarism, intentional or unintentional, is evident in the Clinical Research Project. A report that provides evidence that the Clinical Research Project is free of plagiarism must be attached to the Clinical Research Project on final submission.

15. The acceptance of the Clinical Research Project by the Specialty Board is a requirement for eligibility to sit the Part II examination.

16. Following submission of the project the examiners may:

   a) Accept the work
      Or
   b) Reject the work, and outline what additional or new work needs to be carried out and when the work should be resubmitted.
Examinations

DM Part I
17. The Part I examination consists of:

   a) One multiple choice question paper
   b) A clinical examination
   c) An oral examination.

The candidate must pass all components of the examination, that is, the Paper, the Clinical and oral examination to have passed the examination

18. Trainees will be eligible to sit the Part I examination,
   a) at the end of Year 2 but no later than three years after commencing the programme
   AND
   b) having had satisfactory assessments for that period.

DM Part II
19. The Part II examination consists of:

   a) Two written papers, which may include multiple choice questions
   b) A clinical examination
   c) An oral examination.

The candidate must pass all components of the examination, that is, the two written Papers, the Clinical and oral examination to have passed the examination

20. Candidates will be eligible to sit the Part II examination,

   a) two years after successful completion of the Part I examination, but not greater than three years after successful completion of the Part 1 examination, AND
   b) having satisfactorily completed the four years of the DM programme.

Failure to meet either of these two requirements will require the candidate to withdraw from the programme.

21. The Part II examination must be attempted for the first time within one year of the acceptance of the Clinical Research Project.

22. The Part II examination must be completed within 12 months of the first attempt.

Parts I and II
23. Candidates maybe allowed two attempts at the Parts I and II examinations respectively. Failure after the second attempt in either part necessitates withdrawal from the programme. The student cannot reapply to the programme after they withdraw.
24. Candidates are required to complete the programme (including the DM Part II examination) within 7 years of commencing the programme. Failure to do so will require withdrawal from the programme.

25. The student will be considered to have completed training in the DM Paediatrics programme after meeting the eligibility criteria to sit the Part II examination and is not guaranteed a training post thereafter.

The final grade in the DM Paediatrics is Pass/Fail.

LIST OF COURSES

Recommended

MEDC 6900  Essential Health Research Skills

Compulsory

MEDC 6617  DM Paediatrics Part I
MEDC 6622  DM Paediatrics Part II

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DM (Psychiatry)

Requirements for entry

See general regulations – Doctor of Medicine.

1. Applicants will be eligible for entry after completing their internship and Senior House Officer rotations. Following submission of their applications, candidates may be required to attend an interview to be eligible for selection to the programme.

Course of Study

2. The DM Psychiatry is a four year postgraduate course which aims to provide the graduate with the knowledge and skills to function as a consultant equipped for independent practice in hospital-based stand-alone facilities and community mental health.

3. On acceptance to the programme there will be a six month probation period during which the candidate’s performance will be assessed at regular intervals. Any candidate who fails the overall assessment during this period of probation will be required to withdraw from the programme.

4. The programme will be a minimum of four years (see exemptions) from the date of entry. Throughout the programme, candidates must hold recognized posts in accredited hospitals or be on an ‘elective’ approved by the Specialty Board in Psychiatry.

5. The programme consists of two parts, over four years.

Part I (Year 1)

6. During this period, the students will be given instructions in the Basic Medical Sciences (Neuroanatomy, Neurophysiology, Psychology).

Part I (Year 2)

7. Entry to the second year of the programme will depend on the recommendation of the Specialty Board based on the continuous assessments and the results of the Year 1 Part I (Basic Sciences).

8. During this period, students will be given instructions in Neurology and Psychiatry.

9. By the end of the first semester of Year 2 of the programme, the student will submit to the Specialty Board through his/her supervisor, a project proposal for a Clinical Research Project to be undertaken during Year 3 of the programme.

Part II (Year 3)

10. Admission to Part II of the programme depends upon the student’s satisfactory performance in the Part I examination at the end of Year 2 (see below under examinations).

11. During this period, students can undertake an elective of their choice, provided that prior approval is obtained from the Specialty Board.
Students are required to carry out their Clinical Research Project during this year.

Part II (Year 4)
12. During this period, the students continue working as a psychiatric resident at an approved general hospital under supervision. By the end of the first semester of Year 4, the student will submit to the Faculty Sub-Committee for Graduate Studies and Research, through the Coordinator of the programme, a final report on his/her Clinical Research Project.

13. Students will only be allowed to sit the final examination at the end of Year 4, after submission and acceptance of the Clinical Research Project.

Institutions accredited for learning
14. A list of accredited hospitals may be obtained from the Dean’s Office. Some are accredited only for the first part of the course; others are accredited to provide training in the second part of the course for a specified time.

15. To gain credit for such a period the candidate must submit a satisfactory assessment report from their supervisor.

Exemption
16. All requests for exemptions should be made in writing by the student to the relevant Specialty Board, and appropriate recommendation will be made to the Campus Committee for Graduate Studies and Research through the Faculty Sub-Committee for Graduate Studies and Research. Each case will be considered on its own merit.

Assessment
17. Continuous assessment of the candidate’s performance is carried out by his/her supervisor.

18. If the assessments are found to be unsatisfactory, the Specialty Board may recommend one or more of the following:

a) Counseling/academic warning in writing
b) Remedial work
c) Repeating the unsatisfactory rotations
d) Withdrawal from the programme, if poor performance persists.

19. The Year 1 Part I (Basic Sciences) examination will be held at the end of Year 1 and candidates will be evaluated in the Basic Sciences (Neuroanatomy, Neurophysiology and Psychology).

Clinical Research Project
20. All students must submit a completed Clinical Research Project to the Specialty Board through the Coordinator of the programme, by the end of the first semester of Year 4.
a) The Clinical Research Project should be produced based on cases seen and should form a
distinct contribution to the knowledge of the subject presented, or
b) A formal Clinical Research Project on an area of interest.

21. The Clinical Research Project must be of satisfactory literary standard and should attain standards
suitable for publication in a peer reviewed journal. It should not exceed 20,000 words; a typical
report has about 12,000 words. The report must follow the University’s Guide for the Preparation of
Theses, Research Papers and Clinical Research Projects.

22. Following the submission of the Clinical Research Project, the examiners may:

   a) Accept the work and the student proceed to the final year of the programme and sit the Part
      II examination, or
   b) Accept the work with modification, which must be carried out in the time specified and
      resubmitted, or
   c) Reject the work. In this case the student will not be allowed to sit the final Part II
      examination.

Examination

23. Before admission to any examination, candidates must be certified by their supervisors as having
completed the relevant parts of the programme.

24. Examinations are in two parts, Parts I and Part II, and are normally held once per year in May/June.

Part I Examinations (Years 1 and 2)

25. Details of the Part I Year 1 examination are provided above. The Part I Year 2 examination is held at
the end of the second year. In this examination, candidates are assessed in Neurology and
Psychiatry. The examination comprises:

26. A knowledge based examination in Neurology and Psychiatry consisting of two written papers
   a) A clinical/oral examination in Neurology
   b) A clinical/oral examination in Psychiatry

Part II Examination (Year 4)

27. Candidates must have completed the following three (3) requirements before being allowed to sit the
Part II examination:

   a) Satisfactory continuous in-course assessments
   b) Satisfactory completion of the Part I assessment
   c) Accepted Clinical Research Projects

28. The Part II examination is held at the end of the fourth year and candidates are evaluated in
Psychiatry.
This exam consists of:
   a) Two written papers
   b) A clinical examination
   c) An oral examination based on standardized vignettes or standardized questions.

**Failure of an Examination**

29. Should any candidate fail any examination at the first attempt, a second attempt must be made within one calendar year of the first attempt. The same applies to the Clinical Research Project.

30. No student will be allowed more than two attempts at any one examination or more than two attempts at submitting the Clinical Research Project. Failure after the second attempt will necessitate withdrawal from the programme. Re-admission of candidates will be in accordance with the University Regulations for Graduate Diplomas and Degrees. This also applies to the Clinical Research Project.

**Completion of the Programme**

31. A candidate is deemed to complete the programme if they have met the following requirements:

   a) Year 1- satisfactory performance in the Part I Year 1 examination
   b) Year 2- Pass all parts of the Part I Year 2 examination in the same sitting
   c) Clinical Research Project- acceptance and submission of corrected project
   d) Part II- Pass each written paper, pass the clinical examination and pass the oral examination in the same sitting.

The final grade in the DM Psychiatry is Pass/Fail.

**LIST OF COURSES**

**Recommended**

MEDC 6900  Essential Health Research Skills

**Compulsory**

MEDC 6614  DM Psychiatry Part I
MEDC 6626  DM Psychiatry Part II

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DM (Surgery - General)

Requirements for entry
See general regulations – Doctor of Medicine.

1. Candidates are required to submit a written application and may be required to attend an interview to be eligible for selection to the programme.

2. Six months of supervised post-internship experience in the practice of surgery or in accident & emergency medicine at an approved hospital is desirable but such experience is not required.

Course of Study
3. The programme consists of two parts and the course of study is a minimum of five years - Part I is two years and Part II is three years. The programme takes place either at the University Hospital of the West Indies or at institutions in the contributing territories recognized by the University for this purpose.

4. Teaching and training in teaching methods and research methodology/epidemiology are integral components of the programme.

DM Part I- Two years
5. During this period, students will be assigned to rotations in General Surgery and the surgical subspecialties. A rotation in critical care medicine may be taken through the Section of Anaesthesia & Intensive Care.

6. Provided that the in-course assessments are satisfactory, the Part I examination is taken at the end of two years.

DM Part II– Three years
7. During this period, students are assigned to general surgery rotations with increasing levels of responsibility.

8. Up to one year’s elective may be spent at institutions in or outside of the Caribbean provided that prior approval is obtained from the Specialty Board in Surgery. Such approval must be obtained at least six months prior to the commencement of the elective period. The elective period is limited to the penultimate year only.

9. During the final year, the student is eligible for the appointment of Chief Resident. The final year of the Part II programme must be spent at the University Hospital of the West Indies or at institutions in the contributing territories recognized by the University for this purpose.

Exemption
This section should be read in conjunction with the General Regulations - Doctor of Medicine.
10. Students who have obtained, by examination, the MRCS, CCBST, CCT or Full Fellowship of any one of the Royal Colleges of Surgeons may apply for exemptions from rotations only, from all or parts of the Part I programme. Such exemption may be granted at the discretion of the Specialty Board in Surgery, after assessment of the curricula for the programmes undertaken in comparison to those of the DM. In some instances, the student’s performance in the DM programme may also be considered.

Assessment

11. Student performance will be assessed (by observation, orally and in writing) at the end of each rotation and will be recorded on prescribed forms. A satisfactory standard of in-course assessments is mandatory prior to taking the Part I and Part II examination.

12. Those with unsatisfactory records will be encouraged to improve and a warning letter issued; counselling and/or remedial work may be recommended. An unsatisfactory performance in a rotation may require that it is repeated. If poor performance persists, the student will not be allowed to complete the programme and will be required to withdraw.

13. Entry to Part II is dependent on satisfactory completion of the Part I.

14. The following three requirements must be met before the Part II examination:

   a) Reach a satisfactory standard in on-going assessments.
   b) Submit a list of all operations where the candidate was the primary surgeon or assistant surgeon as certified by their supervisors.
   c) Case book or Clinical Research Project

15. All DM Surgery candidates must submit to the Specialty Board or the Coordinator of the programme, at least six months before the final (Part II) Examination, ONE of the following:

   a) A casebook of twenty (20) cases. These cases should cover the range of pathology seen in the practice of general surgery. Of the cases submitted, five (5) may be rare cases of unique clinical relevance that may have important educational content suitable for journal publication. The book should not exceed 300 pages.
   Or
   b) A Clinical Research Project or research thesis. This option should have been previously agreed on at the commencement of the Part II programme by the Specialty Board and the project carried out under the guidance of a supervisor appointed by the Campus Committee for Graduate Studies and Research on the recommendation of the Specialty Board in Surgery.
   or
   c) A casebook of ten cases and a Clinical Research Project eg. a pilot project not exceeding 8,000 words. The latter could provide the basis to conduct a Clinical Research Project on clinical material to be later developed into a publication.
16. The format of the casebook/project report should conform to the University regulations dealing with the preparation of projects and dissertations. It should not exceed 20,000 words but must not be less than 15,000 words. The cases/project report must be typewritten and printed on one side only of good quality white bond paper (usually 20lb. weight) 8 ½” x 11” (Standard Letter Size), with left hand margin of 2”. The top, bottom and right hand margins should not be less than 1”. The same grade of paper should be used throughout the thesis. Case reports should follow the format of case reports submitted for journal publication, namely: introduction, case history, discussion and conclusion. References should follow the format of the West Indian Medical Journal.

17. Students are required to discuss the preparation of the casebook/project report with their Consultant(s) and/or Supervisor(s) during the preparation of the book. Each should be entered in a log and signed on satisfactorily completed by the supervisor. The writing of the casebook offers the student the opportunity of choosing cases of clinical relevance and to express an opinion, based on careful evaluation of the current literature. The case reports should be of high quality suitable for publication in a peer reviewed journal.

18. Following submission of the work, the examiners may:

   a) accept the work allowing the student to proceed to the examination
      or
   b) reject the work, with recommendations regarding changes, additions, or revisions necessary for acceptance. The examiners will indicate a deadline for resubmission of the work.

19. The completed casebook/project report should be submitted for assessment at least six (6) months before the date of the final examination. If the work is found to be unsatisfactory and requires major revision the student will not be allowed to sit the final examination and a new date will be set.

Examination

20. There are two examinations, one each at the end of the Part I and Part II and only 2 attempts are allowed per examination.

21. Candidates will be eligible to sit the Part I examination two years but not greater than three years after entry into the programme.

22. The Part I examination consists of two sections:

   Section A - Principles of Surgery
   Section B - Basic Pathology, Anatomy, Physiology (including Biochemistry)

23. The examination must be completed within one calendar year of the first attempt.

24. There will be a written paper, which may include multiple choice questions and an oral examination in each subject.
25. The candidate must pass Section A and at least two parts of Section B to qualify for entry to Part II of the programme. Candidates who are repeating Part I must remain in the programme.

26. Continuation in the training programme will be dependent on the recommendation of the Specialty Board based on its continuous assessment and the results of the Part I examination. Candidates will be eligible to sit the Part II examination at the end of the three years in Part II (i.e. at the end of year V), but not greater than four years (at the end of year 6) after successful completion of the Part I examination.

27. The Part II examination consists of:

   a) Written papers which may include multiple choice questions.
   b) An oral examination which may include clinical material and must be taken within one calendar year of the acceptance of the project or casebook.

28. No student will be allowed more than two attempts at any one examination. Failure after the second attempt will necessitate withdrawal from the programme. The student may not reapply to the programme after withdrawal.

Completion of the Programme

29. Students will be considered as having completed the programme and eligible for the award of the DM degree when the following FOUR requirements have been met:

   a) Satisfactory performance of all rotations
   b) Acceptance of the certified list of operative procedures
   c) Acceptance of the case book or Clinical Research Project and submission of corrected book.
   d) Satisfactory performance in the Part I and II examinations

The final grade in the DM Surgery (General) is Pass/Fail.

LIST OF COURSES

Recommended

MEDC 6900  Essential Health Research Skills

Compulsory

MEDC 6620  DM Surgery (General) Part I
MEDC 6621  DM Surgery (General) Part II

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MODULE AND COURSE DESCRIPTIONS

Courses for the Master in Public Health

COURSE CODE: PBHE 6000
TITLE: Health Promotion
CREDITS: 3

Description
This course explores the philosophies, goals and principles on which health education and health promotion are founded and the relevance of the health promotion approach to Caribbean Public Health. The promotion of individual responsibility and community participation are also covered.

Assessment
100% Coursework

COURSE CODE: PBHE 6015
TITLE: Social and Behavioural Science
CREDITS: 3

Description
This course teaches the way in which social and behavioural factors affect the health of individuals and populations. Social and behavioural sciences contribute greatly to the understanding of the social context and individual behavior in relation to health and illness.

The course introduces and examines basic theories and models from a range of social and behavioural disciplines that are used in public health research and practice. The course identifies the causes of social and behavioural factors on health, illness and health seeking behavior, and aims to provide the students with the knowledge and skill set to critically apply interdisciplinary health concepts to their public health research.

Assessment
60% Coursework, 40% Final Examination
COURSE CODE: PBHE 6050
TITLE: Health Economics
CREDITS: 3

Description
This course serves as a basic introduction to key concepts and methodology to understand the application of health economics in the management of health services. Health Economics I and II; Commissioning and contracting for health gain; Managing fixed assets; Financial management

Assessment
40% Coursework, 60% Final Examination

COURSE CODE: PBHE 6060
TITLE: Qualitative Data Analysis
CREDITS: 2
PREREQUISITE: PBHE 6930: - Qualitative Research Methods

Description
This course is intended to aid students in being able to effectively analyze quantitative data collected from interviews, focus groups and ethnographic methods using a software programme (Atlas.ti version 8). Students will become familiar with using software to manage qualitative data and to develop theories based on data analysis.

Assessment
100% Coursework

COURSE CODE: PBHE 6100
TITLE: Biostatistics
CREDITS: 2

Description
This course introduces methods for analyzing a single variable (univariate methods) or two variables simultaneously (bivariate methods). Univariate analyses are used primarily for descriptive purposes, while bivariate and multivariate analyses are geared toward more explanatory purposes and the testing of hypotheses. Univariate analyses are commonly used in the first stages of research, and would be followed by more advanced bivariate or multivariate techniques.

There will be focus on appropriate use and interpretation of statistical techniques such as Chi-squared, t-test, liner and logistic regression analyses. Another major emphasis will be on critically appraising the scientific literature.

Assessment
60% Coursework, 40% Final Examination
COURSE CODE: PBHE 6105  
TITLE: Quantitative Data Analysis  
CREDITS: 2  
PREREQUISITES: PBHE 6900 – Research Methodology & PBHE 6100 - Biostatistics  

This course is intended to aid students in being able to effectively manipulate data collected in surveys and other epidemiological study designs using an open source statistical software program (Epi-Info version 7). Students will become familiar with the design of questionnaires in an open source databasing environment and will be able to enter and read data from other database sources. There will be a focus on data management techniques for preparing ‘messy’ data for analysis, and regression analysis using real data from regional studies of Caribbean health. Statistical techniques taught in PBHE 6100 will be implemented in Epi-Info, along with further regression analysis methods.  

Assessment  
100% Coursework  

COURSE CODE: PBHE 6110  
TITLE: Epidemiology of Priority Diseases  
CREDITS: 3  

Description  
This course provides an overview of the epidemiology of the diseases, both chronic non-communicable (NCD) and infectious (ID) of major public health importance in the Caribbean. It covers their current distribution, trends, determinants and approaches to their prevention and control. In particular, the roles of surveillance, policy formulation, programme planning, implementation and evaluation are addresses as part of societal efforts aimed at the prevention of NCDs and IDs.  

Assessment  
60% Coursework, 40% Final Examination  

COURSE CODE: PBHE 6200  
TITLE: Epidemiology I  
CREDITS: 3  

Description  
Epidemiology is the core science of Public Health, providing the concepts and tools to assess and monitor the health of populations, investigate the causes of different health states, direct interventions to address those causes and monitor their impact. The course aims to provide a solid grounding in epidemiology as applied to Public Health, with the second epidemiology course providing detailed consideration of study design and the collation of data and evidence.  

Assessment  
40% Coursework, 60% Final Examination
COURSE CODE: PBHE 6210  
TITLE: Advanced Epidemiology  
CREDITS: 2

Description
This course details methodological issues in epidemiology including measurements, rates, risk, study designs and statistical methods and their value in the prediction and management of illnesses and diseases.

Assessment
60% Coursework, 40% Final Examination

COURSE CODE: PBHE 6300  
TITLE: Family Health  
CREDITS: 2

Description
This course aims to assist students to gain more in-depth knowledge of Maternal and Child Health/Family Health: the concepts, content, approach to practice, especially in Caribbean situations, which will enable them to develop and demonstrate attitudes and skills necessary in providing more efficient and effective care for the family”.

Assessment
60% Coursework, 40% Final Examination

COURSE CODE: PBHE 6400  
TITLE: Health Care Systems  
CREDITS: 3

Description
The course will cover basic Management thinking, policy and planning. It consists of: Understanding Organisations; Decentralisation and Accountability; Planning of Health Services: both, Strategic Planning and Operational/Business Planning

Assessment
100% Coursework
COURSE CODE: PBHE 6420  
TITLE: Human Resources for Health  
CREDITS: 3

Description
This course will focus on resources to manage, particularly human resources, which form the biggest and most valuable asset of the health sector. It covers Human Resources Management; Managing Teams; Managing Self; Leadership; Performance Management.

Assessment
60% Coursework, 40% Final Examination

COURSE CODE: PBHE 6500  
TITLE: Primary Health Care  
CREDITS: 2

Description
This course reviews and discusses Alma Ata, from a health sector perspective. It examines the contribution of non-health sectors, health service structure and functions, community participation, intersectoral coordination, international health regulations, natural and international health agencies to primary health care. Analyses of the primary health care approach to the promotion and maintenance of health and development are included.

Assessment
60% Coursework, 40% Final Examination

COURSE CODE: PBHE 6600  
TITLE: Environmental Health  
CREDITS: 3

Description
This course provides a general overview of environmental health, its scope and practice. Emphasis is placed on the interrelationship between man and his environment and the resulting impact on health. The vast dimensions of the environment including air, land and water and related issues including physical, biological and chemical agents known to be harmful to health is included.

Assessment
60% Coursework, 40% Final Examination
COURSE CODE: PBHE 6900
TITLE: Research Methodology
CREDITS: 2

Description
Covers principles involved in the writing of a research proposal, design of investigations, methods of data collection and report writing. This is followed by an application of principles in planning and conducting a research project that is examined externally as part of the examination process. Research projects of students in the Health Education and Promotion track must have a Health Promotion slant and include qualitative methods.

Assessment
100% Coursework

COURSE CODE: PBHE 6925
TITLE: Computing for Public Health
CREDITS: 0

This course provides a structured introduction to computer programmes and skills necessary for the modern public health practitioner. Recognizing that students have varying levels of computer literacy, this course will comprise entirely of guided computer lab exercises to improve computer literacy and enhance skills and competencies necessary for utilizing the power of computing in public health work.

The emphasis throughout will be on the appropriate use of software to efficiently manage public health projects.

Assessment
Pass/Fail

COURSE CODE: PBHE 6930
TITLE: Qualitative Research Methods
CREDITS: 2

Description
This course describes and discusses various methods of qualitative research. Emphasis is placed on the development of skills and the practical application of such methods of research to health education, health promotion and public health.

Assessment
100% Coursework
COURSE CODE: PBHE 6940  
TITLE: Project Mgt and Integrated Knowledge Application  
CREDITS: 1  

This course has 2 broad aims. On is to develop the student’s ability to plan and implement substantial public health projects and the second is to encourage them in applying in an integrated way, the knowledge and skills gained from the breadth of the curriculum.  

Assessment  
100% Coursework  

COURSE CODE: PBHE 6990  
TITLE: Research Project  
CREDITS: 7  

Description  
The overall goal of the research project and paper is to provide students with the opportunity to integrate knowledge and skills acquired through the programme by addressing a research question that is relevant to public health in the Caribbean. In addition through this course, the student will gain and demonstrate knowledge and experience in project management and writing up of a substantial piece of work.  

Although most of the work for this course takes place in the summer session, preparatory work begins in semester 1 when the student identifies a topic and supervisor. A list of topics and potential supervisors is provided, although students are free to propose and work up their own topics so long as they can identify a suitable supervisor. By early in semester 2, the student will need to have developed a detailed protocol and to have submitted their proposal for IRB approval.  

Assessment  
100% Coursework  

Courses for Research degrees  

COURSE CODE: FPAS 6020  
TITLE: Writing a Scientific Paper  
CREDITS: 3  

Description  
This course is a “How to” type. It will equip M.Phil and PhD postgraduate students with the knowledge, skills and experience to enable them to write a scientific paper from their own results. More importantly, this course is a guide to the steps in the process of writing clear and effective scientific papers. The evaluation is based on the scientific paper produced at the end of the course.
This course will be one of the course options for the postgraduate students in the Faculty of Science and Technology and is available to all research postgraduates. The Scientific Literature Review course focuses on developing the literature review needed for the thesis. This course will support and equip the postgraduate students with the knowledge, skills and practical experience to enable them to write a complete scientific article that can be potentially submitted to a refereed journal for publication. If students do not have results/data at the time of enrollment of the course, raw data can be provided for them by their individual supervisor.

Assessment
100% Coursework

COURSE CODE: GRSM 6001 (common to all MPhil students)
TITLE: MPhil Research Seminar 1
CREDITS: 0

Description
This is the first of two research seminars to be presented by the MPhil student.

Assessment
Pass/Fail

COURSE CODE: GRSM 6002 (common to all MPhil students)
TITLE: MPhil Research Seminar 2
CREDITS: 0

Description
This is the second of two research seminars to be presented by the MPhil student.

Assessment
Pass/Fail

COURSE CODE: GRSM 8001 (common to all PhD students)
TITLE: PhD Research Seminar 1
CREDITS: 0

Description
This course is the first of three research seminars to be presented by the PhD student.

Assessment
Pass/Fail
COURSE CODE: GRSM 8002 (common to all PhD students)
TITLE: PhD Research Seminar 2
CREDITS: 0

Description
This is the second of three research seminars to be presented by the PhD student.

Assessment
Pass/Fail

COURSE CODE: GRSM 8003 (common to all PhD students)
TITLE: PhD Research Seminar 3
CREDITS: 0

Description
This is the last of three research seminars to be presented by the PhD student.

Assessment
Pass/Fail

COURSE CODE: EPDM 6000
TITLE: MPhil Epidemiology
CREDITS: 0

Description
Students are required to register for this section every semester and are expected to produce a thesis of approximately 50,000 words under the supervision of a member of Faculty.

Assessment
Pass/Fail

COURSE CODE: EPDM 8000
TITLE: PhD Epidemiology
CREDITS: 0

Description
Students are required to register for this section every semester and are expected to produce a thesis of approximately 80,000 words under the supervision of a member of Faculty.

Assessment
Pass/Fail
COURSE CODE: IMMU 6000  
TITLE: MPhil Immunology  
CREDITS: 0

Description
Students are required to register for this section every semester and are expected to produce a thesis of approximately 50,000 words under the supervision of a member of Faculty.

Assessment
Pass/Fail

COURSE CODE: IMMU 8000  
TITLE: PhD Immunology  
CREDITS: 0

Description
Students are required to register for this section every semester and are expected to produce a thesis of approximately 80,000 words under the supervision of a member of Faculty.

Assessment
Pass/Fail

COURSE CODE: MEDC 6000  
TITLE: MPhil Medical Microbiology  
CREDITS: 0

Description
Students are required to register for this section every semester and are expected to produce a thesis of approximately 50,000 words under the supervision of a member of Faculty.

Assessment
Pass/Fail

COURSE CODE: MEDC 8020  
TITLE: PhD Medical Microbiology  
CREDITS: 0

Description
Students are required to register for this section every semester and are expected to produce a thesis of approximately 80,000 words under the supervision of a member of Faculty.

Assessment
Pass/Fail
COURSE CODE: PBHE 6995
TITLE: MPhil Public Health
CREDITS: 0

Description
Students are required to register for this section every semester and are expected to produce a thesis of approximately 50,000 words under the supervision of a member of Faculty.

Assessment
Pass/Fail

COURSE CODE: PBHE 8000
TITLE: PhD Public Health
CREDITS: 0

Description
Students are required to register for this section every semester and are expected to produce a thesis of approximately 80,000 words under the supervision of a member of Faculty.

Assessment
Pass/Fail

COURSE CODE: PHAL 6012
TITLE: Basic and Systems Based Pharmacology
CREDITS: 6 (two semester course)

Description
This course begins with a broad introduction to pharmacology and general concepts to understand drug actions. It then dwells into system based pharmacology and drugs used to influence the autonomic nervous, neuromuscular, cardiovascular, endocrine, gastrointestinal, ocular, respiratory, renal and haemopoietic systems will be covered.

This course will also introduce the pharmacology associated with the drugs used for cancer, microbial snf parasitic chemotherapy. Drugs used to influence the central nervous system, pain and inflammation will also be addressed.

Students should have a better knowledge of the pharmacology of drugs used to treat conditions such as, hypertension, myocardial infarction, infections and the pharmacology of drugs skeletal muscle activity.

Assessment
100% Coursework
COURSE CODE: PHAL 6013
TITLE: Basic Research Skills for Pharmacology
CREDITS: 3

Description:
This course will develop the skills required to design research proposals for pharmacological research, including project management. The importance of bioethics and animal use and handling will be emphasized in this course. The learning outcomes will be examined through emphasizing the purpose of research and training students in standardized research methods necessary to develop research protocols, including:

- the need for background research
- how to effectively find the relevant information
- identifying whether the available information facilitates hypothesis generation
- identifying research needs

Seminars will be used to explore study design skills and develop skills to facilitate critical paper review. Students will be required facilitate their individual development of the research process with library based assignments.

Assessment
100% Coursework

COURSE CODE: PHAL 6000
TITLE: MPhil Pharmacology
CREDITS: 0

Description
Students are required to register for this section every semester and are expected to produce a thesis of approximately 50,000 words under the supervision of a member of Faculty.

Assessment
Pass/Fail

COURSE CODE: PHAL 8000
TITLE: PhD Pharmacology
CREDITS: 0

Description
Students are required to register for this section every semester and are expected to produce a thesis of approximately 80,000 words under the supervision of a member of Faculty.

Assessment
Pass/Fail
**Modules for the Diploma and MSc Family Medicine**

**CODE: MEDC 6120**  
**MODULE TITLE: Research Methodology**  
**CREDITS: 2**

**Description**  
On completion of this module, the student will be able to:- Conduct a literature review related to a subject of interest, to become familiar with current published literature on the subject; Present an argument (rationale) demonstrating the potential usefulness of a proposed research project; Differentiate between aims and objectives, and write a set of aims/objectives related to a proposed research project; Demonstrate an understanding of the following terms as used in sampling theory: population, sample, simple random sample, stratified random sample, systematic sample, case series, accidental sample, one stage and multi-stage sampling; Demonstrate an understanding of the following terms as used in measurement and data collection: reliability, validity, accuracy, precision, single-blind, double-blind; Prepare data for manual or computer analysis; Write a report in the conventional IMRAD format following a consistent style of presentation as in one of the leading medical/health journals; and Critique published research reports with regard to adequacy of study design and appropriateness of conclusions.

**Assessment**  
100% Coursework

**CODE: MEDC 6310**  
**MODULE TITLE: Statistics**  
**CREDITS: 2**

**Description**  
On completion of this module, the student will be able to:- Correctly use and interpret the following tools in descriptive statistics: contingency tables and tables of frequency distributions, measures of central tendency (mean, median, mode) and dispersion (standard deviation, percentiles, quartiles, range); bar charts, histograms, frequency polygons; the normal distribution; correlation and regression; and Use and interpret the following techniques in inferential statistics: confidence intervals for means and proportions, significance tests (chi-squared test, t-test, 3-test).

**Assessment**  
100% Coursework
CODE: MEDC 6511
MODULE TITLE: Teaching and Learning in Primary Care
CREDITS: 2

Description
On completion of this module, students will be able to: Outline the principles of Adult Education, Discuss the inadequacies and resultant student stresses of traditional medical education, List the features of the constructivist theory of Education and show the application of these features in problem-based learning, Assess one’s learning style using a given learning style questionnaire, Identify the variables affecting student’s motivation to learning, Discuss the problems with present CME for General Practitioners in the Caribbean, Write a learning contract, and Identify various methods of CME.

Assessment
100% Coursework

CODE: MEDC 6512
MODULE TITLE: The Consultation and Communication
CREDITS: 2

Description
On completion of this module, students will be able to: Define and distinguish the different forms of medical consultation, Discuss the limitations and successes of the biomedical approach to patients, with special reference to the Caribbean setting, List and discuss in writing (500 words) the various tasks of the consultation, Explain the Pendleton cycle of care, Distinguish in writing between illness and sickness, Discuss the importance of the patient’s health understanding, Explain in writing “Balint’s Flash”, Explain how consultations may be measured and compared, Discuss the limitations a doctor faces in his/her practice, List and discuss briefly each of the 7 communication transforming principles of Roter and Hall, Describe in writing a rationale for learning about communication, and its relevance to Family Practice today, Being aware of at least 4 research studies which demonstrate how communication can affect health outcome, and of the significance of the findings of these studies, List 20 action skills that can enhance communication within a consultation, Explain how to break bad news to patients, and Analyse a transcript with respect to communication quality using fixed criteria.

Assessment
100% Coursework
CODE: MEDC 6513
MODULE TITLE: Medical Ethics and the Doctor – Patient Relationship
CREDITS: 2

Description
On completion of this module, students will be able to: List at least 8 types of the Doctor-Patient relationship; Discuss the main ethical concern of each type of relationship listed; Identify the appropriate Doctor-Patient relationship for various health care settings, justifying their choice; Discuss 5 distinguishing features of any Doctor-Patient relationship; State in writing how a general practitioner’s increased self-awareness can enhance his relationship with patients; List situations where professional boundary concerns become important, and be able to discuss the significance in Primary Care; Identify and discuss the 4 main Medical ethical principles; Analyse an ethical case scenario with respect to the ethical principles involved in its resolution; Identify 10 virtues important to the Primary Care physician, Identify any other principle(s) or virtue(s) which might be specifically important for the Caribbean doctor, justifying your selection; Discuss the importance of informed consent to General Practice; Outline ways a General Practice office can maintain confidentiality; Describe case scenarios where truth-telling becomes a challenge for the beneficent General Practitioner and suggest ways of resolving these cases; Outline the ethical issues arising out of the Caribbean governments’ recent Health Care Reform proposals; Suggest ways that the health care system can be operated at the primary care level, so that this is ethical; Discuss the ethics involved in: A patient’s request for the termination of life, A patient’s request for abortion, A Down’s syndrome patients request for fertility pills; Identify medical library resources especially helpful in the subject of medical ethics; Discuss, making use of medical literature, ethical issues relating and/or peculiar to the Caribbean General Practice; and Design, using established contemporary medical oaths, a medical oath adjunct suitable for the Caribbean.

Assessment
100% Coursework

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CODE: MEDC 6514
MODULE TITLE: Health Promotion, Screening and Risk Assessment
CREDITS: 2

Description
This module covers five (5) units: Health Promotion Concepts, Rationale and Strategies; Clinical Perspectives in Health Promotion; Models of Health Behaviour Change; Developing Personal Health Skills; and Facilitating Health Promotion in Practice

Assessment
100% Coursework
CODE: MEDC 6516
MODULE TITLE: Care of the Elderly
CREDITS: 2

Description
This module aims: - To promote an ethical approach to the elderly, that is in keeping with psychosocial theories; to be able to discuss the problems facing the elderly in the Caribbean, and to develop Primary Care approaches that can help the resolution of these problems; and To enhance skills in managing some of the common problems of the elderly.

Assessment
100% Coursework

CODE: MEDC 6517
MODULE TITLE: Chronic Disease in Primary Care
CREDITS: 2

Description
This module aims to: To update knowledge on hypertension, diabetes, and obesity and their complications relevant to the Primary Care Physician; To promote skills in history taking, examination and management of patients with hypertension, diabetes and obesity; To promote an understanding of social, economic and lifestyle factors in chronic diseases; To promote the use of protocols and guidelines in the diagnosis and management of hypertension, diabetes and obesity; To enable students to plan and implement health education for chronic diseases; and To enable students to enhance community efforts in health promotion and illness prevention.

Assessment
100% Coursework

CODE: MEDC 6521
MODULE TITLE: Evidence Based Medicine
CREDITS: 2

Description
The module aims to assist the Family Medicine practitioner, to: Understand the tenets of Evidence Based Medicine, thus enabling you to apply them in your everyday practice, Be able to make the right decision, by following the appropriate steps in clinical decision-making, Appreciate the role that epidemiology plays in determining health-related events and the health status of the community, prevention of disease and promotion of health, and Realize the epidemiological trends occurring in the Caribbean today, as well as the natural history of some of the diseases which are now significant threats to the welfare of the region.

Assessment
100% Coursework
CODE: MEDC 6522  
MODULE TITLE: Gender Issues / Women’s Health  
CREDITS: 2  

Description  
On completion of this module, the student will: Be able to identify and discuss the cultural, religious and historical beliefs and values that impact on gender socialisation with specific reference to the Caribbean; Have knowledge of gender specific health problems and their management; Be able to describe gender differences in health problems that are not gender specific; Be able to critically appraise gender sensitivity in the provision and delivery of health care; and Be able to recognise the influence of gender socialisation on the physician’s own relationships with patients and the health team, and on the provision of appropriate care.  

Assessment  
100% Coursework  

CODE: MEDC 6523  
MODULE TITLE: Human Sexuality and STDs  
CREDITS: 2  

Description  
This module covers three (3) units: Human Sexuality; Sexually Transmitted Diseases; and Managing HIV  

Assessment  
100% Coursework  

CODE: MEDC 6524  
MODULE TITLE: Child and Adolescent Health  
CREDITS: 2  

Description  
On completion of this module, the student will be able to:- List the issues that need to be considered when consulting with children and their parents; Describe the role of the Family Physician in the health surveillance and screening of children; To learn about the principles of immunisation, and the indications, use, adverse effects and contraindications of commonly used vaccines; Describe the management of children with fever; Discuss the important health concerns of adolescent patients; To outline important aspects of caring for chronically ill children; and Describe the management of abused children.  

Assessment  
100% Coursework
CODE: MEDC 6525
MODULE TITLE: Mental Health / Counselling
CREDITS: 2

Description
This module aims:- To update students on the common mental health diseases seen in the community; To improve diagnostic management skills in the care of mental health problems; Update students on the nature and causes of substance abuse- both legal and illegal causes; To familiarise students with guidelines and protocols that can be used in managing common mental health problems; To familiarise students with guidelines and protocols that can be used to detect and manage substance abuse; and To introduce the principles of counseling.

Assessment
100% Coursework

CODE: MEDC 6528
MODULE TITLE: Medico-legal issues
CREDITS: 2

Description
This module aims: - To increase the knowledge of the students regarding law and the boundaries it provides for acceptable behaviour in the society; To improve the understanding of doctors regarding the impact of law on health care; To sensitise doctors to important medico-legal issues; and To enhance the skills of Family doctors in medico-legal procedures in the Caribbean.

Assessment
100% Coursework

CODE: TBA
MODULE TITLE: Practice Management
CREDITS: 2

Description
This module seeks to familiarize students with:- basic accounting principles; Principles of managing a practice profitably; Principles of inter-personal relations and informal organizations; Principles of performance appraisals; Various private sector health systems; and The elements of health finances.

Assessment
100% Coursework
CODE: TBA
MODULE TITLE: Counselling
CREDITS: 2

Description
On completion of this module, the student will be able to:- Describe the nature of counselling; Explain and demonstrate the techniques used in counselling; Identify the dynamics of the counselling relationship; Identify the indications for crisis intervention; Demonstrate the technique of crisis intervention; Recognize the manifestations of stress in your own life; and Demonstrate effective stress-reducing techniques

Assessment
100% Coursework

COURSE CODE: MDFA 6000
TITLE: Family Medicine - Postgraduate Diploma

Description
Students will complete 12 modules during the Postgraduate Diploma programme. These modules will be delivered by distance education methods with the help of a study manual. This will be in print format and/or on compact disc. Students will need to read the manuals, and complete the included exercises and assignments. The student is expected to have a job in a Family Practice setting (in a polyclinic or privately). In addition the student will have to attend both Family Practice and Specialist clinic sessions.

Assessment
Pass/Fail

COURSE CODE: MEDC 6642
TITLE: Family Medicine MSc

Description
After completing the Postgraduate Diploma programme, students will complete 4 modules and a research project for the MSc programme. These modules will be delivered by distance education methods with the help of a study manual. This will be in print format and/or on compact disc. Students will need to read the manuals, and complete the included exercises and assignments. The student is expected to have a job in a Family Practice setting (in a polyclinic or privately). In addition the student will have to attend both Family Practice and Specialist clinic sessions.

Assessment
Pass/Fail
Courses for the DM Programmes

COURSE CODE: MEDC 6900
TITLE: Essential Health Research Skills

Description
This course will provide the basic skills and tools to enable students to develop and write a research proposal. The overall goal for this course is for students to understand and undertake the several steps involved in the process of researching, and writing a protocol for conducting a study in the area of health research using quantitative methods.

Assessment
Pass/Fail

COURSE CODE: MEDC 6705
TITLE: DM Emergency Medicine Part I

Description
The Part I DM examination is designed to test the knowledge attitudes and skills of residents at the end of their second year of the DM programme. They must be able to apply basic science knowledge to clinical scenarios and show a proficiency in communication skills.

The examination will consist of written, clinical and oral examinations.

a) The written examination will consist of two papers
   1) An MCQ paper of questions covering all five sections of the syllabus
   2) A data interpretation paper

b) The clinical examination
   1) The clinical examination will be in the form of an Objective Structured Clinical Examination.

c) The oral examination
   1) The oral examination will cover all sections of the Part I course. Candidates must pass Part I before proceeding to Part II.

Assessment
Pass/Fail

COURSE CODE: MEDC 6710
TITLE: DM Emergency Medicine Part II

Description
Candidates will be eligible to sit Part II DM examination at least two years but not more than three years after successful completion of the Part I examination
The Part II examination consists of the following components:

a) The written paper (modified essays and data interpretation) will consist of two papers
b) The clinical examination (long case plus short cases/ OSCE)
c) The oral examination (Clinical plus non-clinical situations)
d) Defense of the Case book/ research project

Assessment
Pass/Fail

COURSE CODE: MEDC 6623
TITLE: DM Anaesthesia & Intensive Care Part I

Description
The first Part of the DM Anaesthesia& Intensive Care programme is of one year’s duration. Provided the in-course assessments are satisfactory, the Part I examination is taken at the end of the first year. Admission to the second part depends on a satisfactory assessments and performance in Part I Examination.

The Part I examination is held at the end of the second year and consists of:

a) a written paper and a multiple choice paper
b) an oral examination

Candidates will be invited to an oral examination depending on their performance in the MCQ. Candidates receiving less than 45% will not be invited for the orals as this represents an irretrievable situation.

Assessment
Pass/Fail

COURSE CODE: MEDC 6624
TITLE: DM Anaesthesia & Intensive Care Part II

Description
The DM Anaesthesia& Intensive Care Part II examination is held at the end of the second year of the Part II programme and consists of:

a) two written papers
b) a clinical examination
c) an oral examination

Assessment
Pass/Fail
COURSE CODE: MEDC 6667
TITLE: DM Family Medicine Part I

Description
This is assessed at the end of year 2 of the DM programme.

Portfolio 30%
Examination (OSCE) 40%
Examination (written) 30%

Assessment
Pass/Fail

COURSE CODE: MEDC 6668
TITLE: DM Family Medicine Part II

Description
Part II of the DM Family Medicine is of 1 year’s duration. Students will complete 12 modules during the first 2 years and 4 modules during the third year. The student is required to keep a portfolio containing all assignments and activities. Students advance to Part 3 on successful completion of Part 2.

The assessment is as follows.
Portfolio 20%
Examination (written) 40%
Defense of project report 40%

Assessment
Pass/Fail

COURSE CODE: MEDC 6669
TITLE: DM Family Medicine Part III

Description
Part 3 of the DM Family Medicine is of one year’s duration spent in an approved training area and includes the preparation of either: a project report; or a case book of twenty cases with commentaries, and a clinical examination.

Following the submission of the project report or case book at the end of the fourth year, the examiner may:
- Accept the work, the candidate being then eligible for the award of the degree of DM Family Medicine, OR
- Reject the work, and indicate what additional or new work needs to be carried out and when the work must be resubmitted

Assessment
Pass/Fail
COURSE CODE: MEDC 6655  
TITLE: DM Internal Medicine Part I

Description
The DM Internal Medicine Part I examination consists of:
a) Written papers (essay and multiple choice questions)  
b) A clinical examination (objective structured format)  

The candidate must pass both parts of this examination at the same sitting in order to progress to Part II.

Assessment
Pass/Fail

COURSE CODE: MEDC 6656  
TITLE: DM Internal Medicine Part II

Description
Years 3 and 4 of the DM Internal Medicine are assessed as per the protocols for the first 2 years. Only candidates who have obtained satisfactory reports at the end of the 3rd year, and have completed their research projects, will be eligible to sit the Part II examinations. This examination consists of two written papers (one essay and one multiple choice), a clinical examination (OSCE) and an oral examination. This examination is an “exit examination” with emphasis on a high level of competence in clinical skills, knowledge of up-to-date evidence based medicine, communications, problem solving as well as aptitude, attitude and knowledge so that to be successful candidate is capable of functioning at consultant level in the Caribbean context. Each candidate is required to pass each part of the clinical examination individually in order to obtain a passing grade.

A candidate obtaining a pass mark (i.e 50 marks) in each of the written papers, and a pass mark (i.e 38 marks) in each of the components of the clinical examination, and a pass mark of 25 marks in the oral component of the examination will be deemed to have passed the DM Part II in Medicine.

Assessment
Pass/Fail

COURSE CODE: MEDC 6630  
TITLE: DM Obstetrics & Gynaecology Part I

Description
The DM Obstetrics &Gynaecology Part I Examination is held at the end of the first year and comprises: a written paper and an oral examination in Obstetrics and Gynaecology and related disciplines in the basic sciences.

Assessment
Pass/Fail
COURSE CODE: MEDC 6635
TITLE: DM Obstetrics & Gynaecology Part II

Description
Part II of the DM Obstetrics & Gynaecology is of three years duration and may include a period of six months in a related discipline or in an approved research project provided that approval has been obtained from the Specialty Board beforehand.

The Part 2 Examination consists of:

a) Two written papers

b) A clinical examination which will include presentation and discussion of Obstetrical and Gynaecological cases

c) An oral examination

The Part 2 Examination must be taken within one year of the submission of the project report or case book.

Assessment
Pass/Fail

COURSE CODE: MEDC 6661
TITLE: DM Ophthalmology Part I

Description
The Part I DM Ophthalmology examinations will be undertaken after 2 years in the programme. Students may only advance to Part II after successful completion of Part I.

Section A:
- Principles of Ophthalmic Surgery

Section B:
- Anatomy of Head and Neck (including Embryology and Neuro anatomy)
- Basic and Ocular Pathology including microbiology and biochemistry.
- Physiology of eye, adnexae, CNS including related general physiology.

General Medicine in association with Ocular pathology

Candidates must pass Section A and pass all parts of Section B to qualify for entry into the second part of the programme.

Candidates who have not completed the Part 1 exam within one calendar year of the first sitting of the examination will normally be required to withdraw from the programme.
Section A Exam consists of 4 Essay questions (3 hours)

Section B Exam consists of 3 papers of 100 MCQ’s each (each paper will be 3 hours). The 3 papers shall be Anatomy (Head and Neck), Ocular Physiology, and Ocular Pathology.

Assessment
Pass/Fail

COURSE CODE: MEDC 6662
TITLE: DM Ophthalmology Part II

Description
The Part II DM Ophthalmology exam will be undertaken at the end of the 3rd year in the programme.

Section A:
• Basic Optics (Principles of Instrumentation) & Theory of Refraction (MCQs)

Section B:
• Practical Refraction exam & OCSE

Assessment
Pass/Fail

COURSE CODE: MEDC 6663
TITLE: DM Ophthalmology Part III

Description
The Part III examination will be undertaken at the end of the fellowship. This will consist of 2 parts:
1) 2 Papers : MCQs/ Essay
2) Oral Examination

Assessment
Pass/Fail

COURSE CODE: MEDC 6612
TITLE: DM Orthopaedic Surgery Part II

Description
The Part II DM Orthopaedic Surgery examination will consist of:
a) Two written papers
b) An oral examination which may include clinical material

Assessment
Pass/Fail
COURSE CODE: MEDC 6617  
TITLE: DM Paediatrics Part I

Description  
The DM Paediatrics Part 1 examination consists of  
a) One multiple choice question paper  
b) A clinical examination  
c) An oral examination.

Assessment  
Pass/Fail

COURSE CODE: MEDC 6622  
TITLE: DM Paediatrics Part II

Description  
The DM Paediatrics Part 2 examination consists of  
a) Two written papers, which may include multiple choice questions  
b) A clinical examination  
c) An oral examination.

Assessment  
Pass/Fail

COURSE CODE: MEDC 6614  
TITLE: DM Psychiatry Part I

Description  
In the DM Psychiatry Year 1 Part 1 examination candidates are assessed on Neurology, Psychiatry and Psychology. The exam comprises:  

- A knowledge based examination in Neurology, Psychiatry and Psychology. This consists of a composite multiple choice paper examination (MCQs) and extended matching questions.  
- A clinical examination in Neurology  
- A clinical examination in Psychiatry consisting of two long cases, four vignettes and/or structured questions.

In Year 2 Part 1 of the DM Psychiatry, candidates are evaluated in Basic Sciences (Neuroanatomy and Neurophysiology). This exam consists of two written papers

Assessment  
Pass/Fail
COURSE CODE: MEDC 6626  
TITLE: DM Psychiatry Part II

The DM Psychiatry Year 4 Part 4 Examination is held at the end of the fourth year. Candidates are evaluated in Psychiatry. This exam consists of:

- Two written papers
- A clinical examination
- An oral examination based on standardized vignettes and/or standardized questions

Assessment  
Pass/Fail

COURSE CODE: MEDC 6620  
TITLE: DM Surgery (General) Part I

Description  
The DM Surgery (General) programme consists of two parts. Teaching and training in teaching methods and research methodology/epidemiology are integral components of the programme. During the first part, are assigned to three monthly rotations in General Surgery and the surgical subspecialties. Provided that the in-course assessments are satisfactory, the Part I examination is taken at the end of two years.

The Part I examination consists of two sections:
- Section A:  
  Principles of Surgery
- Section B:  
  Basic Pathology, Anatomy, Physiology (including Biochemistry)

The DM Surgery (General) Part I is equivalent to the DM Orthopaedic Surgery.

Assessment  
Pass/Fail
COURSE CODE: MEDC 6621  
TITLE: DM Surgery (General) Part II

Description
During part 2 of the DM Surgery (General) students are assigned to general surgery rotations with increasing levels of responsibility.

The Part II examination consists of:
 a) Written papers which may include multiple choice questions.
 b) An oral examination which may include clinical material and must be taken within one calendar year of the acceptance of the project or casebook.

Assessment
Pass/Fail

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LIST OF SUBJECT CODES WITH DESCRIPTIONS

Courses are listed in the Class Schedule in the Cave Hill on-line system by subject area. Following is a list for all subject codes used in this handbook for easy reference at registration.

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