



UWI

ST. AUGUSTINE
CAMPUS



Faculty of
**MEDICAL
SCIENCES**

UNDERGRADUATE

2023-2024 Regulations & Syllabuses

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HOW TO USE THIS HANDBOOK

The Faculty Handbooks (also known as Faculty Booklets) are available on the Campus website in PDF format at <http://sta.uwi.edu/faculty-booklet-archive>. The Handbooks include:

- Relevant **Faculty Regulations** – e.g., Admission Criteria, Exemptions, Progression, GPA, Leave of Absence, etc.
- Relevant **University Regulations** including the Plagiarism Regulations and Declaration Forms
- Other Information on **Co-Curricular** courses, **Language** courses and **Support for Students** with physical and other disabilities or impairments.
- **Programme Descriptions and Course Listings** which include the list of courses to be pursued in each programme (degrees, diplomas, and certificates), sorted by level and semester; course credits and credits to be completed for each programme – majors, minors, and specials.
- **Course Descriptions** which may include details such as prerequisites and methods of assessment.

Students should note the following:

The Regulations and Syllabuses issued in the Faculty Handbooks should be read in conjunction with the following University Regulations:

- The Undergraduate Regulations and Syllabuses should be read in conjunction with the University Regulations contained in the [Undergraduate Handbook and the University's Assessment Regulations \(with effect from August 2018\)](#) and any subsequent amendments thereof.
- The Postgraduate Regulations and Syllabuses should be read in conjunction with the University Regulations contained on the [Postgraduate Admissions website](#), the [PG GPA Regulations](#) introduced in 2021, and the [Board for Graduate Studies and Research Regulations for Graduate Certificates, Diplomas and Degrees \(with effect from August 2018\)](#) and any subsequent amendments thereof.

Progress through a programme of study at the University is governed by Faculty Regulations and University Regulations. Should there be a conflict between Faculty Regulations and University Regulations, University Regulations shall prevail, where appropriate.

ACADEMIC CALENDAR 2023/2024

Get important dates such as the beginning and end of each semester, matriculation, examinations, graduation and ELPT. Also take note of deadlines for the payment of fees, registration, and applications for overrides, leave of absence, admissions, and scholarships & bursaries.

To download the latest calendar, visit <https://sta.uwi.edu/registration/academiccalendar.asp>.

LEGAL NOTICE – PROGRAMME & COURSES

1. Notwithstanding the contents of Faculty Handbooks, Course Outlines or any other course materials provided by the University, the University reserves the right at any time to altogether withdraw, alter or modify its programmes or courses and/or vary its modes or methods of teaching, delivery and assessment of its programmes or courses, as deemed necessary in the following circumstances:
 - (a) As a result of any changes imposed by national laws, legislation or governmental regulations or orders made from time to time.
 - (b) In response to the occurrence of a force majeure event, including but not limited to, war (whether declared or not), riots, civil disorder, epidemics, pandemics, quarantines, earthquakes, fire, explosions, storms, floods or other adverse weather conditions, strikes, lockouts or other industrial action, confiscation or any other action or authority by governmental or regulatory agencies or acts of God.
 - (c) In the event of an emergency where there is risk to life and property.
 - (d) Where the exigencies of the circumstances require such action to be taken by the University.
2. Whilst it is anticipated that teaching, delivery and assessment of the University's programmes and courses during Academic Year 2023/2024 will be conducted primarily in person, the University reserves the right to implement virtual/online/electronic modes and methods of teaching, delivery and assessment or hybrid teaching and learning, if deemed necessary due to public health regulations, governmental order or health and safety protocols associated with the COVID-19 pandemic and any other possible threats to public health and safety.

DISCLAIMER – PRIZES & AWARDS

In the case where Faculty/Student Prizes or Awards may be listed, the Faculty does not bind itself to award any or all of the listed prizes/awards contained herein or its stated value and reserves the right to modify or altogether remove certain prizes/awards as described in either or both the electronic and printed versions of the Faculty Handbook.

MISSION STATEMENT

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

MESSAGE FROM THE DEAN OF THE FACULTY

We, the staff members of the Faculty of Medical Sciences, take immense pleasure to welcome you as students to our great Faculty.

We wish to proudly inform you that the University of the West Indies (UWI) has a three-quarter century of tertiary education experience in the region, training hundreds of thousands of individuals, who have reached great heights in their careers and lives.

As you are starting your life-long journey as a healthcare professional, it is our duty to inform you that the Faculty of Medical Sciences comprises many schools including the School of Medicine, Dentistry, Veterinary Medicine, Pharmacy, and Nursing. Fortuitously, this is an endorsement of the value of the 'One-Health' concept, whose importance we practically experienced during the recent pandemic. In whichever school you are enrolled, the pandemic experience has taught us that all healthcare professionals must work together as a team, for the betterment of all living beings contributing to the ecosystem of this planet.

Technology is advancing day by day; however, no machine can replace a compassionate, empathetic, and ethical healthcare professional. It is common knowledge that patients (both human and veterinary) need a human touch during their time of suffering, and no amount of 'artificial intelligence', 'apps,' and 'robots' will be able to provide that human rapport, they yearn for.

Our Faculty has highly experienced academics, clinicians, researchers, administrative and technical support staff, librarians, IT personnel, and a whole gamut of resources to shape every student in the healthcare arena into a fine professional in their field.

We implore you to utilise all the resources to the fullest extent during your training period, qualify with flying colours, and go out and serve our communities with exceptional knowledge, ethics, and professionalism as a proud alumnus of the UWI.

Please remember that in the history of modern medicine, some of the paradigm-changing discoveries and inventions were undertaken by 'students'; hence a correct blend of inquisitiveness, self-esteem, and humility is paramount for your success.

Once again, welcome to the Faculty of Medical Sciences. We wish you the very best for the journey you are embarking on in the form of a professional University education.



Professor Hariharan Seetharaman
DEAN

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GENERAL INFORMATION

1. The Faculty offers six (6) undergraduate degree programmes as follows:

1. Bachelor of Medicine, Bachelor of Surgery (MBBS)/ B.Med. Sci)
2. Doctor of Dental Surgery (DDS)
3. Doctor of Veterinary Medicine (DVM)
4. BSc Pharmacy
5. BSc Nursing (pre- and post-registration)
6. BSc Optometry

The MBBS, DVM and DDS programmes are accredited by the Caribbean Accreditation Authority for Education in Medicine and Other Health Professions (CAAM-HP).

2. Dress Code and Conduct

Students must at all times conduct and present themselves in a manner in keeping with the nature of the profession for which they are in training, and as directed by the School in which registered. Any student who is not appropriately attired will not be attended to by staff in the Dean's Office, Schools or Departments.

Student ID cards must be displayed at all times, when on UWI/RHA premises. This includes attending classes, laboratory sessions and clinical rotations. Student ID cards are required to facilitate all transactions in the Faculty/ University.

Food and drink are not be brought into the classrooms/ laboratories or be consumed there. Students should also refrain from chewing gum.

3. Technology

It is recommended that a student's personal computer has sufficient capability to access the University's electronic course management system and other online communication tools including web-conferencing for classroom and project activities.

4. Immunisation

It is expected that all prospective students, including elective students entering the Faculty of Medical Sciences should have been inoculated against Hepatitis B prior to admission. Students entering the Doctor of Veterinary Medicine programme are required to be immunized against Rabies, Tetanus and Yellow Fever prior to admission.

5. Registration

Please note that the registration of a student is not complete until the appropriate tuition and other fees have been paid in respect of that student or arrangements acceptable to the Campus Principal have been made with respect to the payment of such fees. A late registration fee of TT\$200 applies for each semester.

5.1 Exemptions

A student who has completed a course and passed an examination from this or another recognised University in a course equivalent to the part or the whole of a course in any of the degree programmes in the Faculty may apply through the Director/ Head of Department for exemption. The Director/Head of Department shall examine the syllabus, the time which has elapsed since the course was completed, and in particular whether such course is equivalent in whole or in part to that offered in the particular programme. The Director/Head of Department through the Dean shall make one of the following recommendations to the Faculty Board indicating the reasons for such recommendation:

- a. that the student be exempted from both the course and the examination
- b. that the student be exempted from a part or the whole of the course, but be required to take a part of or the full examination
- c. that the application be rejected
 - Exemptions and credit shall not normally be granted to students who have been asked to withdraw from and are re-admitted to the Faculty for whatever reason after a lapse of more than two years.
 - Applicants from the Faculty shall be eligible for exemptions and credit of common courses taken in the Faculty if the mark earned was not less than 50%.

6. Debarments, Repeats, Withdrawals

- a. Where there is dissatisfaction with the work of a student, the Director/Head of a Department may report the matter to the Dean and the Faculty Board which may recommend to the Academic Board (St. Augustine) that the student be debarred from the examination and either repeat the course or be required to withdraw from the Faculty of Medical Sciences.
- b. Students required to withdraw from the University for failing to complete the degree programme within the stipulated time or for poor performance as provided for in the Faculty Regulations, may apply for re-entry into the Faculty after at least one year has elapsed since their withdrawal.
- c. Students thus re-admitted to the Faculty may, in accordance with its Regulations, be granted exemption from courses, subject to there being no change in the content of the courses and provided that no more than five years have elapsed since the date of withdrawal.
- d. Students whose performance in Year 1 indicates general weakness (e.g. bare passes in all courses) may be required by the Faculty to repeat the year.
- e. Students from one Faculty who had been required to withdraw from the University for failing to complete their degree programme within the stipulated period may be immediately admitted to another Faculty. Such students may be granted exemption from Year 1 courses relevant to the new programme subject to (c) above.
- f. A student who voluntarily withdraws from the University and who applies for re-admission within five (5) years shall be granted exemption and credit for courses previously passed, subject to the time limit for the maintenance of credit stipulated in the relevant Faculty Regulations. All grades previously obtained shall be used in the determination of the student's GPA.

7. Leave of Absence

- a. A student who for good reason wishes to be absent from an academic programme for a semester or more must apply online for formal leave of absence, stating the reason for the application.
- b. The length of such leave of absence, if granted, will be subject to approval by the Academic Board of the campus concerned, but will not exceed one (1) academic year in the first instance.
- c. Leave of absence will not be granted for more than two (2) consecutive academic years.

8. Review of Examination Results - UWI Regulations (Section VII):

141.
 - i. A student who is dissatisfied with the results of his/her examination should report his/her dissatisfaction in writing to the Campus Registrar. Such a report must be made within two weeks of publication of results, and in the case of the Supplemental/Summer School or re-sit examinations within five days of the publication of results.
 - ii. The Campus Registrar shall forward the student's request to the Dean of the Faculty concerned.
 - iii. Only students who have failed a course may request to go through his/her script with the Examiner; (utilizing an approved electronic teleconferencing system if necessary);
 - iv. Students may request to have their scripts remarked.
142.
 - i. In carrying out the process of going through examination scripts with students who have failed courses, the Examiner must disclose the marks/grades.
 - ii. The process at 142(i) should include failed answers in multiple choice examinations.
143. A student who wishes to have his/her script remarked must pay a fee of Bds\$125.00 or J\$2000.00 or TT\$375.00, or US\$62.50 (according to campus) to have his/her script re-marked by a new Examiner.
144. Where re-marking of a script under Regulation 143 above results in a higher mark than that previously recorded, the fee shall be refunded provided that the increased mark results in a change of grade.

GPA REGULATIONS

1. Grading Scheme

- 1.1 The Grading Scheme for students in the Faculty of Medical Sciences (EXCEPT those in the MBBS and DDS programmes) **effective 2016/2017** shall be as follows:

GRADE	% RANGE	QUALITY POINTS
A+	90-100	4.30
A	80-89	4.00
A-	75-79	3.70
B+	70-74	3.30
B	65-69	3.00
B-	60-64	2.70
C+	55-59	2.30
C	50-54	2.00
F1	40-49	1.70
F2	30-39	1.30
F3	0-29	0.00

Note: For returning/ continuing students, the new F1, F2, F3 bands will be applied effective 2016/ 2017. The changes will **not** be applied retroactively.

- 1.2 The Grading Scheme for students entering the Faculty **prior to 2014/ 2015** (EXCEPT those registered in the DDS programme) and for MBBS students entering in 2010 to 2017 shall be as follows:

GRADE	% RANGE	QUALITY POINTS
A+	>85	4.30
A	70-85	4.00
A-	67-69	3.70
B+	63-66	3.30
B	60-62	3.00
B-	57-59	2.70
C+	53-56	2.30
C	50-52	2.00
F	0-49	0.00

- 1.3 The Grading Scheme for MBBS students entering the Faculty from 2018/2019 shall be as follows:

GRADE	% RANGE	QUALITY POINTS
A+	90-100	4.30
A	80-89	4.00
A-	75-79	3.70
B+	70-74	3.30
B	65-69	3.00
B-	60-64	2.70
C+	55-59	2.30
C	50-54	2.00
FWR (1st & 2nd attempts)	<50	0.00
F (3rd attempt)	<50	0.00

2. Foundation Courses

Foundation courses (PECH 1001, PECH 1101, PECH 1102, COMM 1001, COMM 1002, FOUN 1101, FOUN 1301), will be assigned a letter grade and will be included in the calculation of semester and cumulative GPA, but not the degree GPA.

3. Progress Through the Programme

- a. The requirement for entry to Years 2, 3, 4 and 5 (where applicable) of all programmes (except for the MBBS programme) to which these GPA regulations apply, is the successful completion of all courses of the respective preceding Year (unless otherwise stated in programme regulations) AND satisfaction of the GPA requirements.
- b. A student failing a course(s) may be allowed to re-sit the examinations in the failed course(s), (the maximum number of credits allowed is dependent on the programme) and may request permission to transfer/ carry forward coursework marks obtained in the respective course(s), when the examination is repeated within one academic year. The re-sit examinations will usually be held during the month of August.
- c. A semester grade point average (GPA) based on grades earned on all approved courses for which the student is registered in a semester, will be used as the basis for the determination of his/her academic standing.
- d. A student whose GPA for a given semester is less than 2.00 shall be deemed to be performing unsatisfactorily and shall be placed on Warning.
- e. A student on warning shall be referred to the Deputy Dean, or a designated School/ Department Advisor, or the Student Life and Development Department for any support considered necessary for optimal academic performance.

NOTE: A Dean's Hold will be put on the record of students who are on Warning. Such students will have to seek counselling by the relevant representative of the School/Department before the Dean's Hold can be removed. This MUST be done within the prescribed registration period at the start of the semester.

- f) **A STUDENT ON WARNING WHOSE GPA FOR THE SUCCEEDING SEMESTER IS LESS THAN 2.00, WILL BE REQUIRED TO WITHDRAW.**
- g) **MBBS, DDS STUDENTS WHO FAIL AN EXAMINATION AFTER THREE (3) ATTEMPTS WILL BE REQUIRED TO WITHDRAW.**
- h) A student who was Required to Withdraw from the Faculty MUST APPLY to the Campus Registrar for re-entry.
- i) If a student has been readmitted to the Faculty all grades previously obtained, (except those for courses that the content is no longer relevant), shall continue to apply for the purpose of determining the student's GPA.

4. Award of Degree

- (a) A Cumulative Grade Point Average based on all courses completed for which grades have been obtained (excluding those taken on a Pass/Fail basis), will be calculated and recorded on the student's transcript.
- (b) A Grade Point Average based on grades obtained on ALL COURSES registered for, (excluding those taken on a Pass/Fail basis), whether passed or failed, will be used in the calculation for determination of the class of the degree.
- (c) The class of degree will be awarded on the basis of the Grade Point Average (GPA) of all courses taken (passed and failed), excluding those taken on a Pass/Fail basis.

DEAN'S HONOUR ROLL

Eligibility for inclusion on the Dean's Honour Roll

The following guidelines are applicable:

- (a) Inclusion on the Dean's Honour Roll will be on a Semester basis. The Summer School will not be considered.
- (b) Students must obtain a Semester GPA of 3.60 and above in any semester
- (c) Full-time students must have passed a minimum of 15 credits in the semester. Part-time students must have passed a minimum of 12 credits in the semester.

Credits gained for the following will NOT be taken into consideration in computing the Dean's Honour Roll:

- Co-curricular offerings
 - Internship programmes
 - Audited courses
 - Summer courses
 - Not-for-credit courses
- (d) Repeat courses will be included in the computation of the Semester GPA towards the Dean's Honour Roll
 - (e) Students with pending Disciplinary Action/Hearing may be considered for recognition on the Dean's Honours List, but would be removed from the list if they are found culpable.
 - (f) Registered students with disabilities must meet the qualifying GPA of 3.6. They would however be eligible on completion of 12 credits in the semester. Such students must declare and provide supporting documents as evidence of their disability at the start of the semester and must be registered with the Student Life and Development Department (SLDD).

UNIVERSITY REGULATIONS ON PLAGIARISM

Application of these Regulations

1. These Regulations apply to the presentation of work by a student for evaluation, whether or not for credit, but do not apply to invigilated written examinations.

Definition of plagiarism

2. In these Regulations, “plagiarism” means the unacknowledged and unjustified use of the words, ideas or creations of another, including unjustified unacknowledged quotation and unjustified unattributed borrowing;

“Level 1 plagiarism” means plagiarism which does not meet the definition of Level 2 plagiarism;

“Level 2 plagiarism” means plagiarism undertaken with the intention of passing off as original work by the plagiariser work done by another person or persons.

3. What may otherwise meet the definition of plagiarism may be justified for the purposes of Regulation 2 where the particular unacknowledged use of the words, ideas and creations of another is by the standards of the relevant academic discipline a function of part or all of the object of the work for evaluation whether or not for credit, for example:
 - a. The unacknowledged use is required for conformity with presentation standards;
 - b. The task set or undertaken is one of translation of the work of another into a different language or format;
 - c. The task set or undertaken requires producing a result by teamwork for joint credit regardless of the level of individual contribution;
 - d. The task set or undertaken requires extensive adaptation of models within a time period of such brevity as to exclude extensive attribution;
 - e. The task set or undertaken requires the use of an artificial language, such as is the case with computer programming, where the use of unoriginal verbal formulae is essential.
4. It is not a justification under Regulations 2 and 3 for the unacknowledged use of the words, ideas and creations of another that the user enjoys the right of use of those words, ideas and creations as a matter of intellectual property.

Other definitions

5. In these Regulations,
“Chairman” means the Chairman of the relevant Campus Committee on Examinations;
“Examination Regulations” means the Examination and other forms of Assessment Regulations for First Degrees Associate Degrees Diplomas and Certificates of the University;
“set of facts” means a fact or combination of facts.

Evidence of plagiarism

6. In order to constitute evidence of plagiarism under these Regulations, there shall be identified as a minimum the passage or passages in the student’s work which are considered to have been plagiarised and the passage or passages from which the passages in the student’s work are considered to have been taken.

Student Statement on Plagiarism

7. When a student submits for examination work under Regulation 1, the student shall sign a statement, in such form as the Campus Registrar may prescribe, that as far as possible the work submitted is free of plagiarism including unattributed quotation or paraphrase of the work of another except where justified under Regulation 3.
8. Quotation or paraphrase is attributed for the purpose of Regulation 7 if the writer has indicated using conventions appropriate to the discipline that the work is not the writer’s own.
9. The University is not prohibited from proceeding with a charge of plagiarism where there is no statement as prescribed under Regulation 7.

Electronic vetting for plagiarism

10. The results of any electronic vetting although capable, where the requirements of Regulation 7 are satisfied, of constituting evidence under these Regulations, are not thereby conclusive of any question as to whether or not plagiarism exists.

Level 1 plagiarism

11. In work submitted for examination where the Examiner is satisfied that Level 1 plagiarism has been committed, he/she shall penalise the student by reducing the mark which would have otherwise been awarded taking into account any relevant Faculty regulations.

Level 2 plagiarism

12. Where an examiner has evidence of Level 2 plagiarism in the material being examined, that examiner shall report it to the Head of Department or the Dean and may at any time provide the Registrar with a copy of that report. In cases where the examiner and the Dean are one and the same, the report shall be referred to the Head of the Department and also to the Campus Registrar.
13. Where any other person who in the course of duty sees material being examined which he or she believes is evidence of Level 2 plagiarism that other person may report it to the Head of Department or the Dean and may at any time report it to the Campus Registrar who shall take such action as may be appropriate.
14. Where a Dean or Head of Department receives a report either under Regulation 12 or 13, the Dean or Head of Department, as the case may be, shall
 - a. where in concurrence with the report's identification of evidence of Level 2 plagiarism, report the matter to the Campus Registrar; or
 - b. where not concurring in the identification of evidence of plagiarism, reply to the examiner declining to proceed further on the report; or
 - c. where concluding that there is evidence of Level 1 plagiarism, reply to the examiner indicating that conclusion and the Examiner shall proceed as under Regulation 11.
15. Where a report is made to the Campus Registrar under Regulation 14a or 16, the Campus Registrar shall lay a charge and refer the matter to the Campus Committee on Examinations.
16. Where the Campus Registrar receives a report alleging Level 2 plagiarism from the Examiner or any other person except the Dean or Head of Department, the Campus Registrar shall refer the matter to a senior academic to determine whether there is sufficient evidence to ground a charge of plagiarism and where such evidence is found, the Campus Registrar shall proceed as under Regulation 15.
17. Where the matter has been referred to the Campus Committee on Examinations pursuant to Regulation 15, the proceedings under these Regulations prevail, over any other disciplinary proceedings within the University initiated against the student based on the same facts and, without prejudice to Regulation 21, any other such disciplinary proceedings shall be stayed, subject to being reopened.
18. If the Campus Committee on Examinations is satisfied, after holding a hearing, that the student has committed Level 2 plagiarism, it shall in making a determination on the severity of the penalty take into consideration:
 - a. the circumstances of the particular case;
 - b. the seniority of the student; and
 - c. whether this is the first or a repeated incidence of Level 2 plagiarism.
19. Where the Campus Committee is of the view that the appropriate penalty for an offence of Level 2 plagiarism is for the student to be:
 - i. awarded a fail mark;
 - ii. excluded from some or all further examinations of the University for such period as it may determine;
 - iii. be dismissed from the University,
 - iv. it shall make such recommendation to the Academic Board.

Clearance on a charge of Level 2 plagiarism

20. A determination of the Campus Committee on Examinations that Level 2 plagiarism has not been found will be reported to the Campus Registrar who shall refer it to the Examiner and notify the student. Where the Committee has not identified Level 2 but has identified Level 1, it shall be reported to the Campus Registrar who shall refer it to the examiner.

Level 2 plagiarism: Appeal to the Senate

21. A student may appeal to the Senate from any decision against him or her on a charge of plagiarism made by Academic Board.

Delegation by Dean or Head of Department

22. The Dean or Head of Department, as the case may be, may generally or in a particular instance delegate that officer's functions under these Regulations.

Conflict of interest disqualification

23. Any person who has at any time been an examiner of work or been involved in procedures for laying charges in relation to which an issue of plagiarism is being considered under these Regulations shall withdraw from performing any functions under these Regulations other than those of supervisor and examiner.

PLAGIARISM DECLARATION

THE UNIVERSITY OF THE WEST INDIES
The Office of the Board for Undergraduate Studies
INDIVIDUAL PLAGIARISM DECLARATION

STUDENT ID:

COURSE TITLE:

COURSE CODE:

TITLE OF ASSIGNMENT:

This declaration is being made in accordance with the **University Regulations on Plagiarism (First Degrees, Diplomas and Certificates)** and must be attached to all work, submitted by a student to be assessed in partial or complete fulfilment of the course requirement(s), other than work submitted in an invigilated examination.

STATEMENT

1. I have read the Plagiarism Regulations as set out in the Faculty or Open Campus Student Handbook and on University websites related to the submission of coursework for assessment.
2. I declare that I understand that plagiarism is a serious academic offence for which the University may impose severe penalties.
3. I declare that the submitted work indicated above is my own work, except where duly acknowledged and referenced and does not contain any plagiarized material.
4. I also declare that this work has not been previously submitted for credit either in its entirety or in part within the UWI or elsewhere. Where work was previously submitted, permission has been granted by my Supervisor/Lecturer/Instructor as reflected by the attached Accountability Statement.
5. I understand that I may be required to submit the work in electronic form and accept that the University may subject the work to a computer-based similarity detection service.

NAME _____

SIGNATURE _____

DATE _____

GROUP PLAGIARISM DECLARATION

COURSE TITLE:

COURSE CODE:

TITLE OF ASSIGNMENT:

When submitting a group assignment for assessment each member of the group will be required to sign the following declaration of ownership which will appear on the coursework submission sheet.

We the undersigned declare that:

1. We have read the Plagiarism Regulations as set out in the Faculty or Open Campus Student Handbook and on University websites related to the submission of coursework for assessment.
2. We declare that I understand that plagiarism is a serious academic offence for which the University may impose severe penalties.
3. The submitted work indicated above is our own work, except where duly acknowledged and referenced.
4. This work has not been previously submitted for credit either in its entirety or in part within the UWI or elsewhere. Where work was previously submitted, permission has been granted by our Supervisor/Lecturer/Instructor as reflected by the attached Accountability Statement.
5. We understand that we may be required to submit the work in electronic form and accept that the University may check the originality of the work using a computer-based similarity detection service.

NAME _____

SIGNATURE _____

NAME _____

SIGNATURE _____

NAME _____

SIGNATURE _____

DATE _____

ADDITIONAL ACCOUNTABILITY STATEMENT WHERE WORK HAS BEEN PREVIOUSLY SUBMITTED

1. I/We have set out in an attached statement the details regarding the circumstances under which this paper or parts thereof has been previously submitted.
2. I/We have received written permission from my Supervisor/Lecturer/Instructor regarding the submission of this paper and I have attached a copy of that written permission to this statement.
3. I/We hereby declare that the submission of this paper is in keeping with the permission granted.

NAME _____

SIGNATURE _____

DATE _____

THE CAMPUS LIBRARIES

THE UNIVERSITY OF THE WEST INDIES
ST. AUGUSTINE CAMPUS

The Campus Libraries support the teaching, learning and research activities of The University of the West Indies (UWI), St. Augustine Campus (STA) community. These libraries include:

- The Alma Jordan Library
- The Medical Sciences Library
- The Norman Girvan Library of The Institute of International Relations
- The Republic Bank Library and Information Resource Centre of the Arthur Lok Jack Global School of Business
- The School of Education Library
- The Patience-Theunissen Memorial Library of the Seminary of St. John Vianney & the Uganda Martyrs Theological Institute at Mt St Benedict, and
- The Seismic Research Centre Library.

Resources for Students

Each Library's website (libraries.sta.uwi.edu/) is the gateway to its comprehensive electronic, print and multimedia information resources. From there, students can access state-of-the-art, scholarly, full-text databases on and off campus. The specialised and constantly updated collections contain information relevant to all faculties, research centres, and institutes on Campus. They currently provide access to approximately:

- electronic resources: - 262 databases, 111,464 e-journal titles and 67, 968 e-books
- print resources: - 500,000 books/monographs and 73 journal titles.

Moreover, a sizeable body of Caribbean research may be accessed from maps, microforms, newspapers, theses, photographs, oral history interviews, and over 150 special collections in the West Indiana and Special Collections Division.

Library Services

- traditional loan services
- device loans
- personal and small group research consultations
- reference assistance
- inter-library loan/document delivery
- dissertation/thesis checking
- web-based guides
- orientation tours
- year-round Information literacy sessions

Library Facilities

- audio-visual rooms
- computer laboratories
- photocopying and printing
- group study rooms
- areas for quiet study

Research Support

An online chat service which provides users with immediate responses to questions in real-time with library staff is available from the AJL, the Medical Sciences Library, the School of Education Library the Republic Bank Library & Information Resource Centre and the Norman Girvan Library websites. Users can also submit queries when staff is not online. Users can find answers in the Frequently Asked Questions at <http://uwi-sta.libanswers.com> at the Alma Jordan Library and the Medical Sciences Library.

The Institutional Repository, **UWISpace**, (uwispace.sta.uwi.edu/dspace/) facilitates the collection, preservation, and distribution of the scholarly/research output of the University. Researchers are also allowed to archive and preserve datasets generated by their research activities,

UWIScholar (uwischolar.sta.uwi.edu) is our research information management system designed to aggregate and manage researcher (faculty and students) profiles and facilitate global networking and expertise discovery. The link to the dataset in UWISpace can be added to the list of research.

The libraries also provide services and software that enable UWI faculty, staff, and students to publish their own subscription and open-access online journals (journals.sta.uwi.edu/). These journals are published using Open Journals System (OJS), an open-source editorial management and publishing system, which can manage some or all of the stages of the journal publishing process including submissions, peer review, editing, online publishing, and indexing.

The AJL, in collaboration with the St. Augustine Centre for Innovation and Entrepreneurship (STACIE), and the Intellectual Property Office of the Ministry of the Attorney General and Legal Affairs provides an **Intellectual Property Help Desk Service** (libraries.sta.uwi.edu/ajl/index.php/services/ip-help-desk) to help support researchers.

For further information on these resources and services, please refer to your Library's website or contact your Faculty Liaison Librarian:

Liaison Librarian to UWISON, SoP & SVM

Ms Ayaana Alleyne Cumberbatch

Librarian II

Tel: 645-3232 Ext: 5220

Email: Ayaana.Alleyne-Cumberbatch@sta.uwi.edu

Liaison Librarian to School of Medicine (including Centres), SoD & Optometry Programme

Ms Niala Dwarika-Bhagat

Librarian III

Tel: 645-3232 ext 5244

Email: Niala.Dwarika-Bhagat@sta.uwi.edu

MEDICAL SCIENCES LIBRARY

RULES FOR LIBRARY USERS

1. OPENING HOURS

SEMESTER – LIBRARY

Mondays to Fridays 8:30 a.m. - 8:00 p.m.
Saturdays 8:30 a.m. - 5:00 p.m.

SEMESTER – 24/7 FACILITY

Mondays to Fridays 8:00 p.m. - 6:00 a.m.
Saturdays 5:00 p.m. - 6:00 a.m.
Sundays 12:00 noon - 6:00 p.m.

*VACATION PERIODS – LIBRARY

Mondays to Fridays 8:30 a.m. - 5:00 p.m.
Saturdays 8:30 a.m. - 12:30 p.m.

*VACATION PERIODS – 24/7 FACILITY

Mondays to Fridays 5:00 p.m. - 10:00 p.m.
Saturdays 12:30 p.m. - 10:00 p.m.
Sundays Closed

**Vacation hours will apply to the first week of each semester.*

MEMBERSHIP

The University of the West Indies

- The Library is open to registered graduate and undergraduate students and staff of all campuses of The University of the West Indies.

Non-University of the West Indies

- Visiting research workers, faculty and students of other universities and tertiary level institutions may be granted reading and reference privileges on recommendation of a faculty member and at the discretion of the Librarian*.
 - Other non-university persons over the age of 16 may be granted reading and reference privileges. This is, however, subject to a review by the Librarian on duty and is dependent on the specific need of the particular person.
 - A fee may be charged for long periods of use or repeated use as outlined in the Library's External Users Policy.

LOANS

General

- No book, periodical or other library material may be removed from the Library unless it has been legitimately charged out at the Loans Desk and the date label stamped by the member of staff on duty. A user is responsible for any book or other item borrowed in his/her name. This responsibility ends only when the loan is officially cancelled. Failure to comply with this rule will be treated as a major and deliberate offence.
- Users' identification cards are not transferable. It is a major offence to lend or borrow identification cards. Persons contravening this rule may have their library privileges withdrawn or may be referred to the Principal for further action.
- Certain publications may not be removed from the Library. These include reference books, items in Special Collections, works of special value and other designated Not for Loan Items. All such material will be clearly marked.
- Loans may extend for varying periods depending on the extent of demand for each item. All material loaned will be subject to recall by the Librarian at any time. No loans may be renewed for more than seven (7) days. In cases where a book issued on loan is requested by another user it may be recalled after it has been on loan for a minimum of seven (7) days. A new date due is assigned and fines are charged for non-return of the item after the new date.

Undergraduates

- Undergraduate students of the Faculty of Medical Sciences may have on loan up to twelve (12) items at a time including serials. This figure includes overall entitlement between the Alma Jordan Library and Medical Sciences Library.

Graduates

- Graduate students of the University may have on loan up to fourteen (14) items (including serials). Graduate Research Assistants/Teaching Assistants (non-Graduate students).

10. Research Assistants may have on loan up to fourteen (14) items (including serials).

Academic, Senior Administrative and Professional Staff

11. Academic Senior Administrative and Professional Staff of the Faculty of Medical Sciences including part-time and Honorary Lecturers may have on loan up to nineteen (19) items including serials. In case of special need, additional items may be loaned at the discretion of the Librarian. All loans are subject to recall by the Librarian at any time.

Other persons

12. Other persons permitted to borrow library material may not borrow serials and may borrow books in accordance with the Patron Category assigned.

Departments

13. Library materials may be loaned for extended periods to Departments of the University under certain conditions and at the discretion of the Librarian.

Reserve books

14. All persons to whom the Library is open under Rule 2 may borrow, in addition to the books permitted above, two (2) books reserved for overnight use only. At the discretion of the Librarian, use may be restricted to In Library only. These may be borrowed before the specified times posted at the loans desk and must be returned by half an hour after opening time on the next working day.

Serials

15. Periodicals and other serials (excluding certain titles, which are not for loan) may be issued on loan for a period of seven (7) days. These loans shall NOT be renewable. The most recently received issue of a periodical may not be borrowed except at the discretion of the Librarian.

Overdues

16. The Librarian is empowered to levy a fine upon all users who fail to return library material within the prescribed period. The fine for late return of items is one dollar (\$1.00) for each day the loan is overdue. This fine will apply to normal loans and items recalled to satisfy other borrowers' requests. The fine for late return of items in the Reserve Collection will be one dollar (\$1.00) per hour or any part thereof, per item. The maximum for each overdue item in all categories is five hundred (\$500.00) dollars, after which further disciplinary action may be taken.
17. After a third overdue notice is dispatched, all borrowing privileges will be automatically suspended. Items which are not returned after due notice will be presumed lost and treated accordingly.
18. When, after due notice, a fine or replacement cost has not been paid, the Librarian is authorised to request the Bursar to arrange for the amount of the fine/replacement cost to be recovered by the University.
19. The names of all those students who are not in good standing with the Library, i.e., those who after due notice, have failed to return overdue publications or to pay for items lost or other outstanding fines, will be submitted to the Principal once per year for further action.
20. The Librarian shall have power to remit or reduce fines in any case at his/her discretion.
21. All users are required to return promptly to the Library all items on loan on completion of his/her period of study or termination of employment.

Conduct

22. (a) The Library is provided exclusively for the purpose of academic study and research. Any conduct inconsistent with this purpose or detrimental to its pursuit by others shall constitute a breach of these rules.
- (b) All library users must be prepared to present the appropriate identification cards entitling them to use the Library at any time when asked to do so by a member of the Library or Security staff.
- (c) Disruptive behaviour is not allowed in the Library.

- (d) No bags, briefcases, handbags, parcels or other receptacles exceeding 15 inches (10' x 6' x 4') or 30 cm (20cm x 15 cm x 10 cm) may be brought inside the Library. Such bags, briefcases, handbags etc. may be left in the lockers (rental) provided in the Amphitheatre area or on the shelves in the Library's lobby area. The University accepts no responsibility for the loss or damage of any articles so left.
- (e) Laptops and mobile computing equipment may be used in the Library.
- (f) Pagers must be used with discretion and cellular phones may only be used as designated. Cellular phones are to be kept in silent mode.
- (g) Chairs and tables and other library equipment, fittings and furniture may not be marked, defaced or rearranged. Users may not place their feet on chairs or tables.
- (h) Water in spill-proof bottles is allowed. Food or other drink may not be brought into the Library's service areas or there consumed.
- (i) The Library has been designated a smoke-free area and smoking is strictly forbidden.
- (j) Books, periodicals, etc., taken from shelves and used in the Library should be left on the tables after use and NOT replaced on the shelves.
- (k) All users leaving the Library must show all books, folders, periodicals, papers, etc., in their possession whether these belong to the University or not. Users may also be required to open for inspection any receptacle carried out of the Library.
- (l) All members of the Library and Security staff are empowered to require users to comply with these rules.
- (m) The Librarian shall at all times have authority to maintain good order in the Library and may exclude from it or suspend from its use any user who breaks these rules. The Librarian may report to the appropriate University authority any person responsible for serious or persistent breach of these rules. Such conduct by any member of the University community shall be considered a breach of University discipline.
- (n) Lab coats are NOT to be worn in the Library.

Theft, Mutilation and Loss

- 23. Loss or damage to library material on loan to a user should be reported immediately. The user must pay the cost of replacing a lost or seriously damaged book or other item, in addition to any fine which may have been incurred prior to reporting the loss or damage. Replacement costs will include library processing costs up to thirty-five dollars (\$35.00) per item. Where damage to library material is reported, the user may be subject to a fine appropriate to the extent of the damage. When such damage is not reported but discovered this may be treated as a major offence.
- 24. The following will be considered a major offence against the University:
 - (i) the illegal removal of library materials,
 - (ii) any attempt to obtain library materials or to gain access to library facilities by false pretences or forgery,
 - (iii) the intentional misplacement of books in the Library,
 - (iv) the wilful mutilation or defacement of library material. Any University person who commits such offences may be reported to the appropriate University authority for disciplinary action, which may include suspension or expulsion. Non-University persons who commit such offences may be subject to legal action.
- 25. Any breach of these rules by a user may render him/ her liable to a fine not exceeding five hundred dollars (TT\$500.00) at the discretion of the Librarian.
- 26. The Librarian may institute such operating rules and procedures in addition to the above as may be deemed necessary and appropriate for good library economy and service.

***NOTE:**

- (a) 'Librarian' means the Campus Librarian, or anyone delegated by her/him.
- (b) Major offences are specified in 'The Charter of Principles and Responsibilities'.

CO-CURRICULAR CREDITS

The University of the West Indies is committed to providing students with opportunities for a well-rounded educational experience. The Co-curricular programme at the St. Augustine Campus focuses on allowing you to develop a range of important life skills and to acquire characteristics to excel in life in the 21st century.

Students are eligible to register for co-curricular credits from the first semester of studies.

Each student is eligible to count for no more than six (6) credits towards his/her degree for involvement in co-curricular activities.

If you exceed your credit limit you must request an override from your faculty co-curricular coordinator to pursue the course.

To request an override, select the course you wish to pursue from the drop-down menu, and type in your request. Your request will be routed to your faculty coordinator.

The Division of Student Services and Development is responsible for the administration of the Co-curricular programme.

Co-curricular credits will be awarded on the following basis:

Students must be involved in the activity for an entire semester and complete the assessment(s) to receive credit for the course.

Explicit learning outcomes must be identified for each activity.

There must be clearly defined mode(s) of assessment for each activity.

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

The Level I credits earned for involvement in co-curricular activities may be included as part of the overall general credit requirement for the award of the Bachelor's Degree. However, such credits earned shall NOT be used in the computation of a student's Weighted Grade Point Average for determining the Class of Honours.

For further details on co-curricular offerings, please email cocr@sta.uwi.edu or visit the website at sta.uwi.edu/cocurricular/

The following co-curricular courses are available*:

LEVEL 1

Course Code	Course Title	Credits
COCR 1000	Study Skills	1
COCR 1012	Workplace Protocol for Students	3
COCR 1013	Financial Literacy and Training	3
COCR 1030	Technology Literacy	3
COCR 1033	Mind the Gap: Towards Psychological Health & Wellness	1
COCR 1034	Public Speaking and Voice Training: Towards a More Confident You	3
COCR 1036	Ethics and Integrity: Building Moral Competencies	3
COCR 1039	First Aid, CPR, AED	2
COCR 1046	Meditation and Holistic Health	2
COCR 1047	Defensive Driving (Simulation)	1
COCR 1050	The Basics of Steelpan	2
COCR 1051	Innovation and Entrepreneurship Steps	2
COCR 1052	Introduction to Sign Language	3

Microsoft Office

COCR 1040	Microsoft Access 2016	2
COCR 1048	Microsoft Excel Expert 2019	2
COCR 1049	Introduction to the Microsoft 365 Productivity Cloud	2
COCR 1056	Microsoft PowerPoint 2019	2
COCR 1057	Microsoft Word 2019	2
COCR 1058	Microsoft Excel 2019	2
COCR 1059	Discover Microsoft 365 Collaborative Tools	3
COCR 1060	Learn to Collaborate in Microsoft 365	2

*NOTE: All co-curricular course codes begin with COCR. Visit sta.uwi.edu/cocurricular/ for course descriptions, availability and registration instructions. New courses are introduced from time to time, so keep checking the website for updates during the academic year.

WE ENCOURAGE YOU TO ENROLL IN AT LEAST ONE CO-CURRICULAR COURSE or CO-CURRICULAR ACTIVITY AS PART OF YOUR PROGRAMME AT UWI – ST. AUGUSTINE CAMPUS

DIVISION OF STUDENT SERVICES AND DEVELOPMENT (DSSD)

WHO CAN ACCESS THE SERVICES OF SLDD?

ANY student can access the services through self-referral or referral by Faculties, Departments, friends, family, etc. We provide support to **ALL** students in the following areas:

GENERAL SUPPORT – ALL STUDENTS

- Peer-Pairing
- Referral to Counselling
- Access to a Safe Space for relaxing and restoration

INTERNATIONAL AND REGIONAL STUDENT SUPPORT

- Assistance with Immigration matters – renewal of landing stamps, visas etc.
- Liaising with faculties and departments in The UWI and the Immigration Division

POSTGRADUATE AND MATURE STUDENT SUPPORT

- Opportunities for student employment such as peer tutoring, and examination invigilation
- Liaising with faculties and departments on any postgraduate and mature student matters

DISABILITY SUPPORT/STUDENTS WITH MEDICAL CONDITIONS SUPPORT (TEMPORARY AND PERMANENT)

No student of The UWI will be discriminated against based on having special needs. Every effort is made to facilitate requests related to mobility, general academic support and examinations accommodation.

HOW DO I REGISTER AT SLDD?

- All students accessing the services must complete the registration form
- Collect a registration form from the SLDD office or download from <https://sta.uwi.edu/dssd/student-life-and-development-department> (SLDD website)
- Complete the registration form and submit to the office or via email to sldd@sta.uwi.edu
- Students with disabilities and medical conditions must submit a medical report from a qualified medical professional
- Schedule an appointment to meet with the Manager or a Student Support staff member
- An assessment of the student's needs will be conducted to determine the required service

FOR MORE INFORMATION OR ASSISTANCE, CONTACT:

Dr Jacqueline Huggins, Manager, Student Life and Development Department
Email – sldd@sta.uwi.edu or jacqueline.huggins@sta.uwi.edu OR Direct line 645-7526

SLDD Website: <https://sta.uwi.edu/dssd/student-life-and-development>

Facebook: <https://www.facebook.com/UWI-Student-Life-Development-Department-SLDD-948337438614375>

Creating a Campus without Barriers

APPLY FOR SCHOLARSHIPS AND BURSARIES AT UWI ST. AUGUSTINE

There are more than 350 scholarships and bursaries available to both new and continuing students of the St. Augustine Campus each year.

Some **scholarships** are renewable based on performance and range in value from TT\$5,000 to TT\$30,000 per year.

A **bursary** is held for one academic year and may range in value from TT\$5,000 to TT \$15,000.

Who Can Apply?

Applications to UWI St. Augustine Campus Scholarships & Bursaries are open to all Full-time Undergraduate Degree students ONLY. Each award is based on different criteria which is determined by the donor in collaboration with the UWI. Eligibility criteria may include Academic Merit/Performance, Co/Extra-Curricular activities, and/or Financial Need. Some awards are available to regional students, while others are available to Trinidad & Tobago nationals. Some awards are also based on membership in associations, institutions and residential location.

We encourage all eligible students, particularly those in tight or already difficult financial circumstances, to visit sta.uwi.edu/scholarships/ and download the latest Scholarships and Bursaries booklet, to see if you qualify for any of the opportunities listed.

When to Apply

Continuing students must apply between January – May each year. New students must apply after completing the Registration process in the month of September. Look out for ads in the press or via online platforms for exact deadline dates. Awards are typically disbursed to returning students in October and in November for new students.

For further information, contact:

Financial Advisory Services Department, Division of Student Services and Development

E: UGbursaries@sta.uwi.edu – Scholarships & Bursaries

E: Fin.Ad@sta.uwi.edu – Financial Assistance

T: (868)-662-2002 ext. 84185 / 82360 / 82100

CENTRE FOR LANGUAGE LEARNING

The Centre for Language Learning (CLL) offers courses in 10 foreign languages: Arabic, Chinese, French, German, Hindi, Italian, Japanese, Korean, Portuguese, Spanish and Yoruba.

Its aim is to empower students to use the target language in order to understand information, to express themselves orally and in writing, to communicate with native and non-native speakers of the language and engage with the culture of the language.

Students can register at the CLL and attend classes in any language, upon payment of a small registration fee. Students can also pursue credit courses in Chinese, French, Japanese and Spanish. Registration is online using BANNER. Students must complete registration on the [CLL website](#) before their BANNER registration. The normal per credit fee applies.

For course descriptions, please download the [Faculty of Humanities & Education Undergraduate Handbook](#).

COURSE OFFERINGS

CHINESE (MANDARIN)

Course Code	Course Title	Credits
CHIN 1003	Level 1A Chinese (Mandarin) I	2
CHIN 1004	Level 1B Chinese (Mandarin) II	2
CHIN 1005	Level 2A Chinese (Mandarin)	2
CHIN 1006	Level 2B Chinese (Mandarin)	2

FRENCH

Course Code	Course Title	Credits
FREN 1001	Level 1A French I & II	2
FREN 1002	Level 1B French I & II	2
FREN 1003	Level 2A French	2
FREN 1004	Level 2B French	2
FREN 1005	Level 3A French	2
FREN 1006	Level 3B French	2

JAPANESE

Course Code	Course Title	Credits
JAPA 1003	Level 1A Japanese I	2
JAPA 1004	Level 1B Japanese II	2
JAPA 1005	Level 2A Japanese	2
JAPA 1006	Level 2B Japanese	2

SPANISH

Course Code	Course Title	Credits
SPAN 1101	Level 1A Spanish I & II	2
SPAN 1102	Level 1B Spanish I & II	2
SPAN 1103	Level 2A Spanish	2
SPAN 1104	Level 2B Spanish	2
SPAN 1105	Level 3A Spanish	2
SPAN 1106	Level 3B Spanish	2

STUDENT EXCHANGE & STUDY ABROAD

INTERNATIONAL OFFICE - OFFICE OF INSTITUTIONAL ADVANCEMENT AND INTERNATIONALISATION (OIAI)

The St. Augustine Campus has a range of partnership agreements managed through the International Office, OIAI that facilitates exchanges by UWI students as well as students from our international partners to spend time at each other's campuses. The Office also enables student mobility with institutions where we do not have such formal partnerships.

The UWI Student Exchange programme will allow you to study at one of our many international partners around the world, including in North America, Europe, South America, Africa, Asia and the Caribbean in addition to other UWI Campuses.

This type of international immersion has many educational and personal benefits. Students who have participated in the past have all spoken about the tremendous experiences and learnings not only in the classroom, but also from the people and places that they were able to interact with. They have become more independent in their thinking, self-sufficient and confident. They have also been able to make new friends, learn new languages and experience the world first-hand as true global citizens. A number of options for student mobilities are available to undergraduate and postgraduate students, including:

1. Incoming and Outgoing Student Exchange – from one semester to one year duration.
2. Incoming and Outgoing Study Abroad (fee paying) – from one semester to one year duration.
3. Visiting Students – for postgraduate students doing research on invitation by overseas institution.
4. Incoming and Outgoing Study Tours
5. Students on internships/practicums

Funding is available to assist students with some of these exchange opportunities.

For further information on funding as well as Student Exchange and Student Mobility, please visit our website: sta.uwi.edu/internationaloffice/ or visit our Facebook Page for the latest news on mobility opportunities at: www.facebook.com/UWIInternationalOffice/, or contact:

Alviann Thompson (Outbound Mobility Coordinator)

International Office

The University of the West Indies, St. Augustine Campus
Trinidad and Tobago, West Indies

Email: outgoing.mobility@sta.uwi.edu

Phone: +1(868) 662-2002 ext. 85010/Direct: +1(868) 224-3708

Abigail Noel (Inbound Mobility Coordinator)

International Office

The University of the West Indies, St. Augustine Campus
Trinidad & Tobago, West Indies

Email: incoming.mobility@sta.uwi.edu

Phone: +1(868) 662-2002 ext. 84206/Direct: +1(868) 224-3708

Study Tours

International Office

The University of the West Indies, St. Augustine Campus
Trinidad & Tobago, West Indies

Email: internationaloffice@sta.uwi.edu

Phone: +1(868) 662-2002 ext. 84280/Direct: +1(868) 224-3707

Carol Ayoung (Director (Ag.), International Office)

Email: Carol.Ayoung@sta.uwi.edu or internationaloffice@sta.uwi.edu

Direct: +1(868) 224-3739

FACULTY OF MEDICAL SCIENCES FOUNDATION COURSES

All new first-year undergraduates* will be required to complete a minimum of nine (9) credits of Foundation Courses. PECH 1001 is offered in semester 1, PECH1101 and PECH1102 are offered in semester 2.

* BSc Nursing students are exempt from all PECH courses;

* DVM students will choose FOUN 1101 – Caribbean Civilisation **AND** FOUN 1301 – Law, Governance and Society, which are both offered in Semester 1 and Semester 2 **AND** PECH 1102.

COURSE LISTING

REQUIRED:

Course Code	Course Title	Credits	Semester
PECH 1001	The Health Professional and Society	3	1
PECH 1101	Communication Principles for Effective Health Care	3	2
PECH 1102	PECH Practicum	3	2
FOUN 1101	Caribbean Civilisation	3	1 & 2
FOUN 1301	Law, Governance, Economy and Society	3	1 & 2

FOREIGN LANGUAGE REQUIREMENT

Effective AY 2023/2024, to qualify for the award of a degree from the Faculty of Medical Sciences (MB.BS, DDS, DVM, BSc.), all new incoming students are required to complete the three (3) credit Foreign Language elective course, SPAN 1007 - Spanish for Beginners I.

- i. Students who matriculated into The University with a foreign language obtained at the Caribbean Examinations Council with CSEC (Grade 1, 2 or 3) or CAPE Unit I or II (Grades I to 5) or an equivalent, shall be exempted from this requirement and shall receive no credit.
- ii. ALL international students whose first language is not English and who matriculated into The University with English as a Second Language qualification shall be exempted.

Course Code	Course Title	Credits
SPAN 1007	Spanish for Beginners I (Compulsory Elective) (Year Long)	3

SCHOOL OF MEDICINE

Bachelor of Medicine, Bachelor of Surgery (MBBS)/ Bachelor of Medical Sciences (B.Med.Sci.)

1. **Entry Requirements**

1.1 **AGE REQUIREMENT**

Applicants must be at least eighteen (18) years old at the time of admission or by December 31 of the year of entry.

1.2 **ACADEMIC REQUIREMENTS**

The University's Matriculation Requirements:

- Passes in at least five (5) subjects at CXC (CSEC) General Proficiency (Grades I or II pre-1998 and I-III from 1998) or GCE O-levels or BSCSE (Grades A-C) or approved equivalents, which must include English Language, Mathematics, Chemistry, Biology, Physics.

Academic Qualifications Considered

- Passes in both Units of Chemistry, Biology and any other subject at CAPE (Units I & II) or GCE A-level or approved equivalent.
- Passes at Levels I & II in Chemistry, Biology and any other subject in the Pre-Science programme (Faculty of Science and Technology).
- A triple major Associate Degree in Science from an approved Community College with a GPA greater than 3.5.
- Transfer applicants from the Faculties of Science and Technology of The UWI on completion of the Preliminary and/or Introductory level courses in Chemistry, Biology and one other subject. If the third subject is not Physics, then this must have been passed at CSEC (CXC)/ GCE O-Level/ BGCSE. All such applicants must complete and submit a Transfer Form, autobiographical sketches and certified evidence of involvement in co-curricular activities by the end of the second week of January of the year of application. The academic standard for entry will be based on the cumulative GPA in the three (3) courses.
- Applicants holding first degrees from The UWI's Faculty of Science and Technology/ Pure and Applied Sciences/ Science and Agriculture with a minimum of lower second class honours may be considered for entry. The academic standard for entry will be based on the cumulative GPA and performance in Chemistry, Biology and one other course. If the third subject is not Physics, Physics must have been passed at the CSEC (CXC) / GCE O-Level / BGCSE.
- Applicants with degrees other than in the natural sciences may also be considered provided that:
 - The university which granted the degree is recognized as competitive
 - A minimum cumulative GPA of 3.0 or its equivalent has been obtained
 - Credits have been obtained in Chemistry and Biology and one other subject over two semesters during the university programme OR at least grades I/II in Chemistry and Biology at CAPE Units I & II or GCE A-Level or approved equivalent.
- Applicants with a BSc Pharmacy degree are not usually available for entry into the MBBS programme, BSc Pharmacy UWI graduates are accorded a special dispensation under certain conditions:
 - BSc Pharmacy graduates/ applicants must have completed the programme at least one (1) year prior to application/ admission to the MBBS programme.
 - The number of such persons accepted will be limited to a maximum of the top (3) applicants, based on the final cumulative GPA, and must have achieved First Class Honours.
- Applicants from the Pre-Health Professional programme may also be considered for entry provided that they have attained a minimum cumulative GPA of 3.0 and a minimum grade of B in each of the appropriate science subjects.

1.3 NON-ACADEMIC CONSIDERATIONS

- a. All applicants are required to submit a short (250 - 300 words) autobiographic sketch outlining the reasons for their career choice.
- b. Each activity should be listed on the application form (Supplemental Sheet 2) and must be accompanied by original letters of certification from principals, supervisors or employers for each activity.
- c. Both the duration of involvement and the level of responsibility of the applicant in each activity shall be taken into consideration and certifying documents must state these clearly.
- d. In considering these activities, the University places emphasis on applicant's voluntary participation in community/social projects although consideration shall also be given to other extracurricular activities, experiences and abilities (such as music, sports, drama, and debating or proficiency in a foreign language).

2. *Programme of Study*

- 2.1 The programme of study for the MBBS degree shall last not less than ten (10) semesters and consists of:
 - a. MBBS Phase I - Five and a half (5 1/2) semesters and comprises Phases IA, IB and IC
 - b. MBBS Phase II - Four and a half (4 1/2) semesters.
- 2.2 Candidates who successfully complete Phase I will be awarded the Bachelor of Medical Sciences degree (B.Med.Sci).

3. *Objectives of the MBBS Programme*

It is expected that on completion of the MBBS programme, the graduates will have attained knowledge, attitudes, and skills as described in the following five areas:

I. **BASIC MEDICAL SCIENCES**

- obtain basic information on body systems;
- acquire a scientific approach for actions from hypotheses, which lead to self-directed learning, as well as prognosis, diagnosis, and therapy with respect to medical conditions in both sexes;
- process information on normal and abnormal function in molecular, somatic, biological, mental, and social structure and function in deriving diagnosis;
- utilise information technology for information management in medical education.

II. **CLINICAL AND THERAPEUTIC METHODS, PROCEDURES, AND INVESTIGATIONS**

- demonstrate competence in the management of medical emergencies including first aid and perform simple clinical procedures;
- assess the health status of individuals and groups through observation and data collection from sources including the medical history, clinical examinations, laboratory investigations, and significant others within the dynamics of patients' relationships;
- engage in medical problem-solving process in order to derive a clinical diagnosis;
- prepare and/or implement a plan of patient management and care including appropriate referral.

III. **COMMUNITY HEALTH AND FAMILY MEDICINE**

- demonstrate sensitivity and respect for the rights of individuals and groups in a multicultural society;
- maintain effective doctor-patient relationships especially those involving patient education;
- collaborate with individuals and communities in identifying and achieving defined health goals;
- utilise epidemiological data, and cultural determinants of health in appraising the level of wellness, illness and health in a society;
- apply the principles of epidemiology and public health and an awareness of the social impact of illness to the practice of medicine in the community.

IV. **COMMUNICATION SKILLS**

- communicate effectively with patients, families, and other members of the healthcare team;
- prepare clear and concise records, reports, letters of referral and other patient related documents.

V. PROFESSIONAL COMPETENCE

- knowledge of the healthcare system and ethical/ legal issues, socio-economic conditions that impact on the provision of care;
- critically appraise the published scientific literature;
- keep abreast of social, medical, and technological advances through participation in continuing medical education and research;
- practice medicine within the ambit of professional medical ethics and the law;
- maintain quality assurance initiatives;
- function as a member of the healthcare team.

Specific Objectives

I. Integrated Basic Medical Sciences

- To acquire a scientific approach to decisions for diagnosis, therapy, and prognosis on health conditions;
- To apply relevant knowledge from the biomedical and behavioural sciences to the care of individuals, families, and groups in the community and hospital settings;
- To utilise informatics in the management of medical information as well as office practice;
- To differentiate normal and abnormal structure and function in biomedical, somatic and mental operations of the human body system, male and female, throughout the life cycle;
- To recognise the progression in the disorder of human function because of the biology of disease.

II. Communications

- To prepare clear and concise records, reports, letters of referral and other patient-related documents;
- To communicate effectively with patients' families, and other members of the health care team;
- To conduct patient education especially in areas of child health and chronic diseases;
- To enhance the doctor-patient relationship through effective communication skills;
- To engage in referral and consultation with other members of the health care team to the benefit of the patient.

III. Family and Communication

- To empower individuals, families, and communities to develop self-reliance regarding their own health care;
- To plan and/or engage in health promotion activities aimed at promoting healthy lifestyles in individuals and communities;
- To collaborate with individuals and communities in identifying and achieving defined health goals;
- To prepare a family study report based on activities performed in the Community Health Outreach Programme;
- To apply the principles of public health and epidemiology with an awareness of the social impact of illness on the practice of medicine in the community;
- To demonstrate sensitivity and respect for the rights of individuals and groups;
- To appraise critically the folk tradition's alternative therapies related to the health that exists within a community.
- To conduct public health research which will identify solutions to community health issues.
- To disseminate accurate and impactful research results to different audiences at community and levels.

IV. Clinical Methods and Procedures

- To demonstrate competence in the initial management of medical emergencies, especially as a first responder;
- To engage in effective medical problem-solving and clinical diagnosis;
- To assess the health status of individuals and groups through observation and data collection by way of - medical history, clinical examination and laboratory findings;
- To perform simple clinical procedures;
- To prepare to implement a management plan including appropriate referral;
- To involve the patient and family in the plan for care and utilise cultural determinants of health in assessing the health and wellness status of communities;
- To prescribe therapeutic methods on the basis of appropriate investigative procedures;
- To recognise the role of nutrition in maintaining wellness, prescribing diet therapies where they are relevant.
- To conduct clinical research relevant to improving clinical methods and procedures

V. Professional Competence

- To participate in health care research;
- To practise medicine within the ambit of professional medical ethics and the law;
- To keep abreast of social, medical, and technological advances through participation in continuing medical education;
- To critically appraise the published scientific literature;
- To be accountable for professional and personal actions in the care of patients;
- To participate willingly in the training of other health care workers;
- To evaluate the results of treatment procedures and to follow up with appropriate feedback;
- To function harmoniously and constructively as a member of the multi-disciplinary team within the health sector and between the health sector and other sectors of the society;
- To participate in planning, organising, directing and evaluating health care;
- To engage in quality assurance initiatives;
- To prescribe health care with a consciousness of the socio-economic conditions among individuals and communities.

4. MBBS PHASE I (Basic Health Sciences Programme)

4.1 CURRICULUM

- i. Basic Health Sciences courses (Phase I) include Anatomy, Physiology, Biochemistry, Pathology, Pharmacology, Microbiology, Public/Community Health, Behavioural Sciences and Sociology of Health. The courses are organised on an organ system approach and facilitate the integration of basic medical sciences with clinical sciences. Information will be acquired through large group lectures, laboratory demonstrations, Problem Based Learning (PBL) sessions, which emphasise student-centred learning, training in the skills laboratory, as well as through the medium of integrated clinical presentations.

NOTE: ATTENDANCE AT PBL SESSIONS IS MANDATORY.

- ii. Students who are absent at PBL sessions will lose a prorated mark in their continuous assessment in accordance with the number of sessions they are absent.
- iii. All students will be required to follow and MUST pass examinations for foundation courses in Professional Ethics & Communication (PECH 1001, PECH 1101 & PECH 1102).
- iv. All Foundation courses must be completed in Phase I of the MBBS programme and no student will be awarded the B.Med.Sci degree until all requirements are satisfied.

4.2 EXAMINATIONS

- **STUDENTS WILL ONLY BE ELIGIBLE TO APPEAR FOR EXAMINATIONS IF THEY HAVE BEEN FINANCIALLY CLEARED BY THE UNIVERSITY.**
 - **ANY STUDENT WHO WRITES AN EXAMINATION FOR WHICH HE/SHE IS NOT REGISTERED WILL NOT BE CREDITED FOR THE COURSE.**
 - **IT IS A REQUIREMENT FOR ELIGIBILITY FOR FINAL END-OF-SEMESTER EXAMINATIONS THAT STUDENTS ATTEND A MINIMUM OF 75% OF CLASSES (LECTURES, PBL SESSIONS AND LABORATORY SESSIONS) IN THE PARTICULAR COURSE.**
- i. A student shall not be allowed to present for any one part or section of an examination unless (s)he attended all of the required coursework tests and written practical examinations in that part.
 - ii. A student must attend, attempt at the same sitting, all the required parts, sections or components (written, practical, oral) of the examinations for which registered and that are applicable.
 - iii. A student who fails to attend any part, section, component (written, practical, oral) of any examination for which registered and applicable shall be recorded as having failed the examination.

- iv. A student who fails any required examination at the first attempt shall be required to re-sit the examination at the next available opportunity, unless otherwise decided by Academic Board, on the recommendation of the Board of Examiners and the Faculty Board.
- v. A student who fails to achieve a passing grade in a Phase I course at the second attempt (usually in August) will be required to repeat the failed course(s) i.e. repeat all the relevant components in the following year and sit the respective end-of-semester examinations.
- vi. There are no resit exams for the Introductory clinical clerkships. A student who fails to achieve a passing grade shall be required to repeat the clerkship(s) at the next available opportunity. The introductory clinical clerkships cannot be trailed into Phase II.
- vii. A student shall be allowed to trail one (1) course or nine (9) credits into the succeeding academic year within Phase I.
- viii. **A STUDENT WHO REPEATS, RE-SITS AN EXAMINATION AND PASSES AFTER A FAILED ATTEMPT, SHALL BE ASSIGNED A MAXIMUM GRADE OF 'C' FOR THE SUCCESSFUL RESULT.**
- ix. A student required to repeat a failed course shall normally be allowed a maximum of two (2) further attempts at the failed course.
- x. **A STUDENT WHO FAILS AN EXAMINATION AFTER THREE (3) ATTEMPTS WILL BE REQUIRED TO WITHDRAW FROM THE MBBS PROGRAMME.**
- xi. A student who has achieved an overall mark of 49% AND at least 66.7% in the continuous assessment/ coursework component will be considered as having attained a passing grade (50%) for that course(s). If the continuous assessment/coursework component constitutes less than 30% of the final overall assessment, then the failing mark of 49% is final.
- xii. **STUDENTS ARE REQUIRED TO SATISFACTORILY COMPLETE ALL PRESCRIBED MBBS PHASE I COURSES OF STUDY AND PASS ALL COURSE EXAMINATIONS BEFORE ENTRY TO PHASE II.**
- xiii. A student who fails three (3) or more courses in Phase I will be required to REPEAT those failed courses in the following academic year, inclusive of generating a new continuous assessment/ coursework mark.

5. Award of the B.Med.Sci Degree

- i. The award of the BMedSci Degree is not automatic. Students will apply in writing to the University for the award.
- ii. The Degree will be awarded subject to the student satisfying the following conditions:
 - a. being in good financial standing; and
 - b. successful completion of the first three years (Phase 1) of the MB BS programme; and
 - subsequent withdrawal at any time prior to completing the MB BS programme for any reason (including but not limited to medical or financial factors); or
 - subsequent required withdrawal for academic reasons (poor academic performance and/or failure to progress).
- iii. The Degree will not be awarded in cases where the student is required to withdraw for disciplinary reasons including failure to comply with the defined codes of professional conduct for medical students.
- iv. B.Med.Sci Category of Degree:

CATEGORY OF DEGREE	GPA
Distinction	3.7 and above
Honours	3.30 – 3.69
Pass	2.00 – 3.29

6. MBBS PHASE II (Clinical/Clerkship Programme)

6.1 INTRODUCTION

On successful completion of the Phase I programme, students proceed to Phase II. This part of the undergraduate programme is based on the well-proven 'clerkship' system, which lasts two (2) calendar years during which groups of students rotate through different clerkships.

The first clinical year involves students as members of clinical service teams in the disciplines of Medicine & Therapeutics; General Surgery; Child Health; Obstetrics & Gynaecology; Psychiatry and Primary Care. The second clinical year involves additional experience in the disciplines encountered in the first year and provides exposure to other clinical disciplines – Public Health, Orthopaedics, Otolaryngology, Ophthalmology and Anaesthetics and Intensive Care.

These attachments will be primarily at clinical wards in local and regional hospitals and health clinics. In the clerkship rotations of the two clinical years, students continue to develop the clinical skills to which they were exposed in the Skills Laboratory and improve their abilities in the clinical reasoning process. Additionally, this exposure is expected to achieve integration of the clinical features of diseases with an understanding of the underlying disorders of normal structure and function and the use and interpretation of laboratory and radiological data in rejecting or confirming clinical hypotheses.

In the Clerkships, students are exposed further to the factors which inform a rational, cost-effective and humane use of the vast armamentarium of therapeutic measures and substances, which are available for the amelioration and cure of disease conditions.

For most of the students, the first exposure to patients in various stages of illness and disease and the impact of such conditions, for both patients and students may be disconcerting and traumatic. It is important, therefore, that the early contacts with patients should be structured and guided in a way that sensitises the students to the needs of patients and their relatives and inculcates a caring approach to clinical practice that is essential if both patients and health practitioners are to benefit from the encounter.

6.2 CONDUCT

It is expected that clinical clerks will display in their attitudes, mode of attire, behaviour in a public setting, and interrelationship with the patients and all categories of staff on the wards to which they are assigned, the highest standards of deportment and medical ethics. The standards of professional behaviour expected of medical students of the Faculty are set out in the document 'Professional Behaviour and Fitness to Practice: Responsibilities of Medical Students at The University of the West Indies'. Such an approach to their responsibilities in the provision of medical care will ensure that students will be adequately prepared for professional practice.

Students whose conduct falls below the standard expected will be subject to the disciplinary procedures of the University. Further, conduct which is deemed to pose a serious risk to patients, Faculty, fellow students or the general public will lead to dismissal from the Faculty. Students who break the law or otherwise bring The University into disrepute will be subject to disciplinary procedures. All disciplinary procedures will be governed by University regulations as laid out in 'The Code of Principles and Responsibilities for Students'.

6.3 ATTENDANCE/LEAVE OF ABSENCE/SICK LEAVE

STUDENTS ARE REQUIRED TO ATTEND A MINIMUM OF 75% OF ALL THE EDUCATIONAL ACTIVITIES IN ANY CLERKSHIP.

Students who fall below this minimum will be required to repeat the clerkship, or make up for the lost time (at the discretion of the Clerkship Coordinator). The academic year includes two weeks' vacation in the month of December. Beyond this, leave of absence will be granted only in exceptional circumstances. **All requests for leave of absence should be made in writing to the Dean's Office**, through the Head of Department in advance. Sick leave is governed by the normal University regulations.

Students are expected to complete Phase II of the MBBS programme no less than two (2) years and no more than five (5) years after successful completion of Phase I Examinations. Students who have not completed their final Phase II examinations within this time frame will be asked to withdraw from the Faculty. Students who are asked to withdraw due to the expiry of the maximum time for completion of the programme will not be allowed to re-apply to the Faculty for at least one (1) year. Students who re-apply to the Faculty and are accepted must re-start the programme of study from the beginning of Year 1, and cannot apply for exemptions from courses already completed during their initial tenure in the Faculty.

Students in Year 4 are permitted to proceed to Year 5 trailing ONLY one (1) clerkship. Students who are unsuccessful in any clerkship will be required to repeat all or part of the clerkship or the end of clerkship assessment, on the advice of the Clerkship Coordinator. **Students who fail any clerkship at the third attempt will be required to withdraw from the Faculty.**

6.4 AIMS OF THE CLINICAL CLERKSHIPS

In Phase II, the courses aim to consolidate the basic concepts of history taking and presentation, together with the development of the necessary skills in eliciting and interpreting abnormal physical signs in the various organ systems.

Students will be expected to develop proficiency in the major organ system and to differentiate normal from abnormal physical signs and their interpretation. Students' performance will be assessed on factual knowledge, critical thinking skills, clinical performance and aspects of professionalism. Further details of the assessment are provided in the detailed clerkship descriptions found later in the regulations.

6.5 DISCIPLINES

The fourth year consists of eight (8) week clerkships in the following disciplines: Medicine, Surgery, Paediatrics, Obstetrics & Gynaecology, Psychiatry and Primary Care (6 weeks).

In the fifth and final year of the programme, there are additional clerkships in Public Health, Orthopaedics, Otolaryngology, Ophthalmology and Anaesthetics and Intensive Care.

On successful completion of all Year 4 clerkships, students must also complete a 4-week Elective in an area of their choice under the supervision of an experienced Consultant in a teaching hospital. The Consultant is expected to provide an assessment of the student on completion of the Elective.

6.6 EXAMINATIONS

- **A STUDENT IS ONLY ELIGIBLE TO SIT THE FINAL PHASE II EXIT EXAMINATION UPON SATISFACTORY COMPLETION OF PHASE I COURSES AND ALL THE REQUIRED CLERKSHIPS, AND COURSES IN PHASE II.**
- **STUDENTS ARE REQUIRED TO HAVE SUCCESSFULLY COMPLETED ALL CLERKSHIPS BEFORE WRITING THE FINAL PHASE II EXAMINATIONS.**
- **THE FINAL EXIT MBBS EXAMINATION TAKES PLACE IN MAY/JUNE OF YEAR 5. THE NEXT AVAILABLE SITTINGS ARE HELD IN NOVEMBER/DECEMBER.**
- **STUDENTS WILL ONLY BE ELIGIBLE TO APPEAR FOR EXAMINATIONS IF THEY HAVE BEEN FINANCIALLY CLEARED BY THE UNIVERSITY.**
- **ANY STUDENT WHO WRITES AN EXAMINATION FOR WHICH HE/SHE IS NOT REGISTERED WILL NOT BE CREDITED FOR THE COURSE.**

i. New Final "MEDC 5550 EXIT MBBS EXAMINATION"

Beginning with the June 2024 MBBS Final examinations, there will be a format change. There will no longer be individual Medicine and Therapeutics, Surgery, and Obstetrics and Gynaecology exams.

This is the final unified exit examination for MBBS candidates, which will consist of written and clinical examinations with components of the three major disciplines: Medicine & Therapeutics, Obstetrics & Gynaecology and Surgery. Candidates will be required to pass both the written and clinical components to obtain and overall pass in MEDC 5550.

ii. **Written papers:** Four written papers consisting of 80 MCQs each. Each paper will be of 2 hours duration.

iii. **Clinical examination:** One OSCE exam with 17 active stations to cover all Disciplines. Candidates must perform at least one physical examination each of the central nervous system, the cardiovascular system, the respiratory system, and the abdominal system. A component of Ethics will be examined at one of the stations. Stations will test core competencies across disciplines, while some discipline specific competency-based stations will be maintained.

iv. Marking Scheme:

Students will be required to pass both the written component and the OSCE independently at one sitting.

- a. **Pass:** A student would be deemed to have passed the exam if he/she has attained an average of 50% in the 4 written papers and a score of 50% in the OSCE and passed at least 9 stations.
Note that both the written and clinical components will be standard set.
- b. **Honours:** For the award of honours in the final examination, a candidate must achieve all of the following: 1) An average written paper score of 65%, and 2) a score of 65% or greater in the OSCE and must have failed no more than 2 stations.
- c. **Distinction:** For the award of a Distinction in the final examination, a candidate must achieve all of the following: 1) An average written paper score of 75%, and 2) a score of 75% or greater in the OSCE and must have failed no more than 1 station

v. Legacy students

Students who took the old format exam but are required to re-sit exams after the introduction of the new format, will be required to repeat the entire new exam even if they had failed only one discipline in the old format.

vi. Practice examination

A practice examination will be arranged before the format change outline above takes place

vii. Repeat:

- a) A student required to repeat a failed clerkship/examination shall normally be allowed a maximum of two (2) further attempts at the failed clerkship/examination.
- b) A student who repeats the final unified Exit MBBS Examination and passes after a failed attempt, shall be assigned a maximum grade of 'C' for the successful result.
- c) Students failing either the MBBS written exam or OSCE will be required to repeat the failed component in 6 months
- d) Failing one component on 2 consecutive occasions will result in a 3rd and final attempt of the entire exam in 6 months
- e) Students failing both the written exam and OSCE will repeat the entire exam in one year. Subsequent failure of one component at second attempt will result in repeat of that component in 6 months. Failure of the entire exam at 2nd attempt will result in a 3rd and final attempt at the entire exam in one year.
- f) Students who have failed and are repeating the MBBS Unified exam SHALL be required to complete a period of prescribed remedial clinical work prior to the repeat examination. The nature and duration of this work will be decided by the Head of Department, in conjunction with the Deputy Dean, Clinical Sciences. In general, prescribed remedial clerkships will be between 6 to 8 weeks duration. Remedial clerkships will expose the student to all aspects of study relevant to the final examination. Students who do not satisfactorily complete or participate in the prescribed remedial work will not be allowed to sit the repeat examination.

7. Award of the MBBS Degree

A student is eligible for the award of the MBBS degree on satisfactory completion of all Phase I courses and Phase II clerkships and passing all final Phase II examinations. The MBBS degree will NOT be awarded with Distinction/Honours unless all examinations were passed at the first attempt.

The class of degree will be determined as follows:

CATEGORY OF DEGREE	GPA
Distinction	3.7 and above
Honours	3.30 – 3.69
Pass	2.00 – 3.29

8. Internship

Upon the successful attainment of the MBBS degree, graduates are required to complete an Internship Programme consisting of clinical rotations for a period of twelve (12) months to acquire full registration by the Trinidad and Tobago Medical Board. Interns rotate through the disciplines of Medicine, Surgery, Obstetrics & Gynaecology, Paediatrics for three (3) months each at public hospitals throughout Trinidad and Tobago.

MBBS - PHASE I - COURSE LISTING

YEAR 1

SEMESTER I

Course Code	Course Title	Credits
MDSC 1401	Environment and Health	6
MDSC 1405	Basic Para Clinical Sciences I	5
MDSC 1406	Basic Para Clinical Sciences II	4
PECH 1001	The Health Professional and Society	3
SPAN 1007	Spanish for Beginners I (Compulsory Elective) (Year Long)	3

SEMESTER II

Course Code	Course Title	Credits
MDSC 1402	Digestion and Metabolism	6
MDSC 1403	The Cardiovascular System	6
MDSC 1404	The Renal System	4
PECH 1101	Communication Principles for Effective Health Care	3
PECH 1102	PECH Practicum	3

YEAR 2

SEMESTER I

Course Code	Course Title	Credits
MDSC 2401	Respiration	5
MDSC 2402	Neurosciences and Behaviour	6
MDSC 2405	The Special Senses	4
MDSC 2407	Introduction to Research Methods and Biostatistics	3
MDSC 2409	Introduction to Medical Ethics	3

SEMESTER II

Course Code	Course Title	Credits
MDSC 2403	Endocrine and Reproduction	6
MDSC 2404	Muscles, Bones and Joints	6
MDSC 2406	Research Project I	3
MDSC 2408	Communication Skills for Health Professionals	3

YEAR 3

SUMMER OF YEAR 2

Course Code	Course Title	Credits
MDSC 3407	Introductory Clinical Clerkship in Surgery	4
MDSC 3408	Introductory Clinical Clerkship in Medicine	4

SEMESTER I

Course Code	Course Title	Credits
MDSC 3401	Applied Paraclinical Sciences I	6
MDSC 3402	Applied Paraclinical Sciences II	6
MDSC 3406	Research Project II	3
MDSC 3404	Integrated Paraclinical Sciences I (Year Long)	6
MDSC 3405	Integrated Paraclinical Sciences II (Year Long)	6

SEMESTER II

Course Code	Course Title	Credits
MDSC 3313	Applied Paraclinical Sciences III	6

MBBS - PHASE II - COURSE LISTING

YEAR 4

All courses are YEAR LONG

Course Code	Course Title	Credits
MEDC 4300	Clinical Medicine I	6
MEDC 4301	Child Health I	5
MEDC 4302	Community Health I Clerkship	4
MEDC 4303	Psychiatry	8
MEDC 4304	Elective	
MEDC 4330	Obstetrics & Gynaecology I	6
MEDC 4340	General Surgery I	8
PECH 4001	Ethics and Professionalism in Clinical Health Sciences	2

YEAR 5

All courses are YEAR LONG

Course Code	Course Title	Credits
MEDC 5300	Clinical Medicine II	6
MEDC 5301	Child Health II	5
MEDC 5302	Community Health II Clerkship	5
MEDC 5331	Obstetrics & Gynaecology II	6
MEDC 5339	General Surgery II (Neurosurgery and Paediatric Surgery)	8
MEDC 5341	Orthopaedic Surgery	3
MEDC 5342	Otolaryngology (E.N.T. Surgery)	3
MEDC 5343	Ophthalmology	3
MEDC 5344	Anaesthesia and Intensive Care	3

Students' Prizes

Most outstanding performance in *Community Health Clerkships*

Best Overall Performance in the Final MBBS examination

Medical Protection Society Prize for The Best Demonstration of Ethical Principles in Medicine

Bachelor of Sciences in Optometry

1. Qualifications for Admission

- i. Passes at CSEC (CXC) General Proficiency Level (Grades I and II pre-1998 and Grades I, II, III since 1998) or equivalent qualifications in Mathematics, English Language, Biology, Chemistry and Physics
- ii. Passes Physics, one other Science subject viz Chemistry, Biology, Mathematics and one (1) other subject at CAPE (Units I & II) or GCE A-Level or approved equivalent; **OR**
- iii. An appropriate Associate Degree or equivalent certification with a minimum GPA of 3.0 (or equivalent) from a recognised tertiary level institution; **OR**
- iv. Any other appropriate qualifications and experience acceptable to the Faculty of Medical Sciences.

2. Regulations

- i. Students will only be eligible to sit for examinations if they have been financially cleared by the University.
- ii. **ANY STUDENT WHO WRITES AN EXAMINATION FOR WHICH HE/SHE IS NOT REGISTERED WILL NOT BE CREDITED FOR THE COURSE.**
- iii. In order to pass a course, a student must have satisfied the examiners in the associated examinations and must have attended at least 75% of classes associated with that course.
- iv. **THE ACADEMIC BOARD ON THE RECOMMENDATION OF THE FACULTY BOARD CONCERNED, MAY DEBAR A STUDENT FROM WRITING THE EXAMINATION ASSOCIATED WITH A COURSE, BASED ON ATTENDANCE OF LESS THAN 75% OF LECTURES/LABORATORY CLASSES/TUTORIALS. THE DESIGNATION RECORDED FOR SUCH A CANDIDATE IN THAT COURSE WILL BE DB (DEBARRED).**
- v. The requirement for entry into Years 2, 3 and 4 of the programme is the successful completion and passes in ALL courses with a pass mark of 50 and above of the respective preceding Year AND a GPA of 2.0 or higher.
- vi. A student, who fails to achieve the passing grade at the first attempt in one (1) course in any year, will be required to re-sit the examination.
- vii. A student who fails in three (3) or more courses in any year of the programme will NOT be allowed to take re-sit August examinations but will be required to repeat the semester/ year in the failed courses.
- viii. A student who fails to achieve the passing grade at the second attempt will be required to repeat the semester/ year in the failed course(s) and to be present for the examination at the next available sitting.
- ix. A student who repeats/re-sits and passes a course following any failed attempt shall be assigned his/her new passing grade. This is recorded in the transcript and is included as an additional grade in the GPA. However, the failing grade remains on the transcript and is calculated into the GPA.

3. Grading Scheme

The Grading Scheme for the BSc Optometry programme effective 2016/ 2017 shall be as follows:

GRADE	% RANGE	QUALITY POINTS
A+	90-100	4.30
A	80-89	4.00
A-	75-79	3.70
B+	70-74	3.30
B	65-69	3.00
B-	60-64	2.70
C+	55-59	2.30
C	50-54	2.00
F1	40-49	1.70
F2	30-39	1.30
F3	0-29	0.00

Note: For returning/continuing students, the new F1, F2, F3 bands shall be applied effective 2016/2017. This change will **not** be applied retroactively.

4. Foundation Courses

Foundation courses (PECH 1001, PECH 1101, PECH 1102) and any other course designated as Pass/Fail will be assigned a letter grade and will be included in the calculation of semester and cumulative GPA, but not the degree GPA.

5. Progress Through the Programme

- i. The requirement for entry to Years 2, 3, 4 is the successful completion of all courses of the respective preceding Year AND satisfaction of the GPA requirements.
- ii. A student failing a course(s) may be allowed to re-sit the examinations in the failed course(s), and may request permission to transfer/carry forward coursework marks obtained in the respective course(s), when the examination is repeated within one academic year.
- iii. A semester grade point average (GPA) based on grades earned on all approved courses for which the student is registered in a semester, will be used as the basis for the determination of his/her academic standing.
- iv. A student whose GPA for a given semester is less than 2.00 shall be deemed to be performing unsatisfactorily and shall be placed on Warning.
- v. A student on Warning shall be counselled by the Dean or a designated School/Department Advisor.

Note: A Dean's Hold will be put on the record of students who are on Warning. Such students will have to seek counselling by the relevant representative of the School/Department before the Dean's Hold can be removed. This MUST be done within the prescribed registration period at the start of the Semester.

- vi. **A STUDENT ON WARNING WHOSE GPA FOR THE SUCCEEDING SEMESTER IS LESS THAN OR EQUAL TO 1.99, WILL BE REQUIRED TO WITHDRAW.**
- vii. A student who was Required to Withdraw from the Faculty MUST APPLY to the Campus Registrar for re-entry.
- viii. If a student has been readmitted to the Faculty all grades previously obtained, (except those for courses that the content is no longer relevant), shall continue to apply for the purpose of determining the student's GPA.

6. Clinical Skills

- i. The clinical training of students in Years 3 and 4 is monitored by way of accomplishment of clinical quota and competency in each discipline. If students fail to accomplish the quota required to achieve competency in respective clinical years of the programme, they are not allowed to progress from one clinical year to another. Those students would be required to repeat the clinical year.
- ii. The clinical training of students in Years 3 and 4 is supervised and monitored throughout the semesters where students are required to see patients and conduct full eye examinations and execute various key clinical skills for each clinical course.
- iii. At the end of Year 3 and 4, students are assessed based on their clinical competency skills which should have been mastered throughout the period and are required to sit an Objective Structured Clinical Exam (OSCE) component for each clinical course. The OSCE component falls under the final examination of each clinical course in Years 3 and 4. The final examination which will comprise the OSCE component will be held at the end of semester 2 of Years 3 and 4.
- iv. If a student in Years 3 or Year 4 fails the OSCE component of any clinical course, he/she will be required to re-sit the OSCE component of the clinical course at the next available sitting. If the student also fails the OSCE component of a clinical course at the re-sit, he/she will be required to repeat the clinical year.
- v. A Year 3 student who fails the written/theory part his/her final exam will be required to re-sit the exam in August and thus, his/her entrance into the Year 4 Clinical Rotations will be delayed by 3 months.
- vi. **ANY STUDENT WHOSE ATTENDANCE FALLS SHORT OF 75% IN ANY CLINICAL ROTATION WILL NOT BE ELIGIBLE TO SIT FOR THE FINAL EXAMINATION. SUCH A STUDENT IS REQUIRED TO REPEAT THE CLINICAL YEAR.**

- vii. At the beginning of semester 2, Year 1 of the Optometry programme students are expected to have available a hand piece kit and other clinical and laboratory instruments that would be the property of the student. The complete set of instruments kits will cost approximately US\$3,000-\$4,000. The student is expected to deal with the dealer directly regarding payment. Students who do not have these kits available will not be allowed to proceed into the preclinical and clinical courses of the BSc Optometry programme.

7. Award of Degree

- i. A student is eligible for the award of a BSc Optometry Degree on the attainment of 151 credits. The class of degree will be awarded as indicated below:

Class of Degree	GPA
First Class Honours	3.60 and above
Upper Second Class Honours	3.00 – 3.59
Lower Second Class Honours	2.50 – 2.99
Pass	2.00 – 2.49

- ii. A Grade Point Average based on grades obtained on ALL COURSES registered for, (excluding those taken on a Pass/Fail basis), whether passed or failed, will be used in the calculation for determination of the class of the degree.

BSc Optometry - COURSE LISTING

LEVEL I

SEMESTER 1

Course Code	Course Title	Credits
OPTM 1011	Human Anatomy & Physiology	4
OPTM 1012	General Pathology & Microbiology	4
OPTM 1031	Introduction to the Optometry Profession	2
OPTM 1041	Pure Optics	3
OPTM 1051	Vision I	3
OPTM 1061	Learning and Key Skills Development	3
OPTM 1062	Introductory Biochemistry (YEAR LONG)	6
PECH 1001	The Health Profession & Society	3
SPAN 1007	Spanish for Beginners I (Compulsory Elective) (YEAR LONG)	3

SEMESTER 2

Course Code	Course Title	Credits
OPTM 1032	Introduction to Clinical Optometry	2
OPTM 1042	Visual Optics	3
OPTM 1052	Perception I	3
OPTM 1071	Anatomy of the Eye & Related Structures	3
OPTM 1072	Physiology of the Eye & Related Structures	3
PECH 1101	Communication Principles for Effective Health Care	3
PECH 1102	PECH Practicum	3

LEVEL II

SEMESTER 1

Course Code	Course Title	Credits
OPTM 2011	Clinical Optometry/Communication Skills (YEAR LONG)	6
OPTM 2021	General Pharmacology	3
OPTM 2042	Ocular Pathology & Immunology	3
OPTM 2051	Physiology of Vision & Perception II	3
OPTM 2072	Ophthalmic Lenses & Dispensing	3
OPTM 2102	Low Vision and Ageing	3

SEMESTER 2

Course Code	Course Title	Credits
OPTM 2022	Ocular Pharmacology	3
OPTM 2031	Visual Ocular Assessment & Techniques	3
OPTM 2061	Assessment of Binocular Vision	3
OPTM 2082	Contact Lens Practice I	3
OPTM 2092	Clinical Methodology & Statistics	3

LEVEL III

SEMESTER 1

Course Code	Course Title	Credits
OPTM 3011	Ocular and Systemic Disease I	3
OPTM 3021	General Clinical Practice (YEAR LONG)	6
OPTM 3031	Advanced Clinical Practice (YEAR LONG)	6
OPTM 3072	Law and Optometric Management	3
OPTM 3051	Binocular Vision and Orthoptics	3
OPTM 3061	Contact Lens Practice II	3
OPTM 3082	Research Project (YEAR LONG)	6

SEMESTER 2

Course Code	Course Title	Credits
OPTM 3012	Ocular and Systemic Disease II	3
OPTM 3041	Visual Ergonomics	3

LEVEL IV (Year Long)

Course Code	Course Title	Credits
OPTM 4021	Primary Eye Care Externship	8
OPTM 4022	Paediatric and Binocular Vision Externship	6
OPTM 4023	Cornea and Contact Lens Externship	6
OPTM 4024	Low Vision & Occupational Health Externship	4
OPTM 4031	Medical, Surgical and Public Health Clinical Externship	8
OPTM 4041	Current Topics in Practice Management, Ethics, Law and Occupational Health	4

SCHOOL OF DENTISTRY

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

Doctor of Dental Surgery (DDS)

1. Entry Requirements

1.1. ACADEMIC REQUIREMENTS

Please note that:

- Entry into these programmes is highly competitive and having achieved the minimum requirements is not a guarantee of acceptance.
- Applicants to the Doctor of Dental Surgery (DDS) degree programme must be at least seventeen (17) years of age by December of the year of entry.
- Qualification for entry to this programme requires that applicants fulfil the general University regulations concerning matriculation and, in addition, the specific requirements of the Faculty set out below.

General University Regulations Concerning Matriculation:

Minimum of five (5) CSEC (CXC) subjects (General Proficiency Grades I-III from 1998 onwards) and/or GCE ‘O-Levels (grades A-C) including English Language and Mathematics, Biology, Chemistry and Physics.

Specific Faculty/Programme Requirements:

The academic requirements for admission to these Degree Programmes are based on the applicant’s academic proficiency and attainment in any of the following:

1.2. APPLICANTS WITHOUT DEGREES

- A. Caribbean Advanced Proficiency Examinations (CAPE) and/or General Certificate of Education Advanced (“A”) Level Examinations Passes in three (3) Two-Unit CAPE or three (3) ‘A-Level subjects according to either one of the following schemes:
 - Scheme A:*
Chemistry, Biology/Zoology and either Physics or Mathematics in addition to ‘O-Level (CSEC) Physics.
 - Scheme B:*
Chemistry, Biology/Zoology, and any other ‘A-Level subject in addition to ‘O-Level (CSEC) Physics.
- B. Programmes/Courses which are considered equivalent to CAPE at institutions recognised by The University of the West Indies.
Such applicants must have obtained three (3) passes in the approved examinations including Chemistry and Biology/Zoology. The third subject can be Physics, Mathematics or another approved subject provided that passes have also been obtained in Physics or Mathematics at the CSEC (CXC) or GCE O-Level.
- C. Pre-Health Professions Programme
Applicants from The UWI St. Augustine Pre-Health Professions Programme may be considered for entry provided that they have attained a minimum cumulative Grade Point Average [GPA] of 3.0 and a minimum grade of B in each of the appropriate science subjects.
- D. Faculties of Science & Technology and Food and Agriculture
Applicants seeking transfer to Medical Sciences from the Faculties of Science & Technology of The UWI & Faculty of Food and Agriculture at St. Augustine will only be considered on completion of the Preliminary and/or Introductory courses of the programme. Such applicants must complete and submit a Transfer form by June 28th of the year of application.
 - i. Inter-Faculty transfers for DDS - The academic standard for entry will be based on a minimum cumulative GPA of 3.5 with a minimum grade of B in Chemistry, Biology and 1 other subject. If the third subject is not Physics, Physics must have been passed as CSEC (CXC)/GCE O-level/BGCSE or approved equivalent qualifications. This is in keeping with information published in the Experience UWI Undergraduate Prospectus 2019/2020.

- ii. Inter - Campus transfers - The minimum academic score requirement will be based on the grade point average at the end of the preliminary and /or introductory courses of the programme as well as a minimum grade of B in Chemistry, Biology and 1 other subject.
- E. Faculty of Engineering
Applicants seeking transfer to Medical Sciences from the Faculty of Engineering with 'A-Level equivalent in Chemistry and Biology/Zoology will only be considered on completion of the Preliminary and/or Introductory courses of the programme. Such applicants must complete and submit a Transfer Form by the second Friday in January of the year of application.
- F. Bachelor of Basic Medical Sciences (BBMedSci) Degree
Persons who are accepted into The UWI (Mona) three-year (3) Bachelor of Basic Medical Sciences (BBMedSci) Degree programme shall not be permitted to transfer to the MB.BS, DDS or DVM programmes at any time during their course but may apply for entry in any subsequent year after obtaining the Degree. In such cases, exemptions of selected courses may be considered.

1.3. Associate Degrees

- A. A triple major Associate Degree in Science from an approved Community College with a Grade Point Average greater than 3.5 is considered acceptable for entry into the MB.BS and DDS programmes.
- B. The Associate in Science Degree in General Agriculture from College of Agriculture, Science and Education (CASE), Jamaica with a GPA of 3.0 or greater.

1.4. Applicants with University Degrees

- A. Persons holding first degrees from the UWI's Faculty of Science & Technology with a minimum of lower second class honours may be considered for entry. The academic standard for entry will be based on the cumulative Grade Point Average and performance in Chemistry, Biology and one other subject. If the third subject is not Physics, Physics must have been passed at the CSEC (CXC)/GCE O-Level/BGCSE.
- B. Persons holding science degrees from a recognized University/community colleges other than The University of the West Indies may also be considered provided that:
 - i. The University which granted the degree is recognized as competitive
 - ii. Credits have been obtained in Biology and Chemistry
 - iii. A minimum cumulative GPA of 3.0 or its equivalent has been obtained (List of acceptable or unacceptable Universities to be attached)
- C. Applicants with first degrees other than degrees in the natural sciences will also be considered provided that:
 - i. The university which granted the degree is recognized as competitive
 - ii. A minimum cumulative Grade Point Average of 3.0 or its equivalent has been obtained.
 - iii. Credits have been obtained in Chemistry and Biology and one other subject over two semesters during their university programme OR they hold at least Grades I/II passes in Chemistry and Biology at Units I & II CAPE, GCE A-Level or approved equivalent.

1.5. Applicants with the International Baccalaureate (IB) satisfying the following conditions:

- i. Applicants should have successfully completed at least two (2) of the appropriate subjects at higher level (HL) from group 4 and group 5 of the IB programme.
- ii. These subjects include Mathematics, Biology, Physics and Chemistry.
- iii. Satisfactory completion of Language A1 (prior to 2013) and Language A (as of 2013) with a score of 4 or above is considered to demonstrate proficiency in English Language at a standard that is expected in FMS.

1.6. Applicants with Higher Degrees

Applicants holding a Masters/PhD in the Basic Sciences (eg. Biology, Physics, Biochemistry, Pharmacology, Pathology, Microbiology, Forensic Science, Occupational Health), having met the relevant academic and non-academic requirements above, may also be considered for entry. The Faculty will not accept Masters in Allied Health or the Masters in Public Health as an entry criterion.

1.7. DH/DT graduates seeking admission to pursue the Doctor of Dental Surgery (DDS) degree programme

- i. Applicants with a B.Sc in Dental Hygiene/Dental Therapy (DH/DT) degree may be considered for entry into the Doctor of Dental Surgery (DDS) degree programme with a minimum GPA of 3.30 equivalent to an academic score of 29.
- ii. The minimum of a B in all non-clinical DHDT courses.

1.8. Non-Academic (Co-Curricular) Criteria

1. An applicant's chances of entry will be enhanced by documented and certified involvement in extracurricular activities in the years prior to his/her application.
2. In considering these activities, the University places emphasis on applicant's voluntary participation in community/social projects although consideration is given to other co-curricular activities, experiences and abilities (music, sports, debating, proficiency in a foreign language etc.)
3. All applicants are required to submit certified evidence of their involvement in co-curricular activities in support of their application (see guidelines for submission in application package).
4. Both the duration of involvement and level of responsibility of the applicant in each activity shall be taken into consideration and certified documents must state these clearly.
5. In addition, applicants should submit a short 250 – 300 word autobiographical summary outlining the reasons for their career choice.
6. Applicants may also be required to attend an interview.
7. In addition to all of the above and over the next 5 years, the Faculty of Medical Sciences will be using a variety of aptitude and psychometric tests to assist the admissions committee in deciding on appropriate admissions to the Faculty.

2. Programme Overview

The basic aim of the DDS programme is to produce modern competent dentists who understand the oral health needs and sensitivities of the Caribbean and who can practice globally. The undergraduate programme comprises a minimum of 227 credits leading to the degree of Doctor of Dental Surgery and consists of five years of study divided into two Phases.

The general objectives of the DDS Programme are:

1. Relate knowledge of basic medical and dental subjects to the clinical practice of dentistry.
2. Identify the requirements for managing a dental team, practice, utilize appropriate information technology and recognize the need for Continuous Professional Education.
3. Describe the research process and be able to critically evaluate dental literature.
4. Communicate effectively with patients to obtain informed consent and elicit medical, dental, social and family histories.
5. Skilfully examine a patient especially the head, neck, and oral cavity.
6. Select, execute and interpret appropriate diagnostic tests for patients.
7. Demonstrate critical thinking and problem solving by collating patient data from the history, examination and diagnostic tests and diagnose dental disease.
8. Demonstrate clinical decision-making by formulating an appropriate treatment plan based on patient's diagnoses.
9. Recognize the limitations of their skills and make appropriate referrals to medical and dental professionals.
10. Manage and treat dental disease in children.
11. Manage and treat dental disease in adults.

12. Educate patients and their families, communities on the prevention of dental disease.
13. Execute their clinical practice in an empathic, ethical, and professional manner and practice within the legal and professional body regulatory framework of their particular jurisdiction.
14. Recognize the social, cultural, economic, political factors that impact dental disease patterns and the provision of oral health care.

Phase I (1A and 1B) is devoted to the study of the basic medical and dental sciences and spans the first two years (4 semesters). Of these, three (3) semesters are taught in conjunction with the School of Medicine as a common programme for dental, medical and veterinary students, and utilises a Problem Based Learning (PBL) methodology. Subjects included in this part of the programme are Anatomy, Physiology, Biochemistry, Pharmacology, General Pathology and Microbiology, Community Health, Behavioural Sciences, Sociology of Health, Epidemiology and Biostatistics. Students undertake a module of Skills Training, which focuses on interviewing and clinical examination techniques. In addition, a series of lectures termed 'Introduction to Dentistry' are given in Year 1 and introduces various disciplines of dentistry to students. Students will also undertake a research project over the course of their second year supervised by staff of the School of Dentistry. Phase IA refers to the medical courses and Phase IB refers to the dental courses.

In addition, dental instruction in Oral Biology and clinical orientation sessions in the School's Dental Clinics form an introduction to Clinical Dentistry. Year 2, semester 2 is devoted to specialist dental topics including Regional Head and Neck Anatomy, Dental Materials Science, Oral Biology, Core Radiology and a laboratory-based unit of instruction in basic Operative Dental Techniques including Pre-clinical Operative Dentistry, Pre-clinical Prosthodontics, Pre-clinical Paediatric Dentistry and Pre-clinical Periodontology. This laboratory experience equips students with the clinical skills and acumen necessary to commence treatment of patients from the beginning of the third year and Phase II of the DDS programme in a graded manner. The three clinical years leading to graduation involve supervised patient management in all spheres of dentistry, and study of the causes, management and prevention of oral and dental diseases. Various disciplines in the DDS programme are taught in horizontal and vertical integration. Accordingly, the teaching of several topics and disciplines are spread over the period of the programme. These disciplines are ultimately merged with their parent disciplines for the university examinations that are conducted at appropriate junctures. Modifications in the programme might be introduced from time-to-time, if deemed necessary.

3. Regulations

- i. Registration for the DDS programme takes place by semester, i.e. at the beginning of each semester. Students must register for courses that they wish to pursue, in each semester, by the end of the 1st week of the first semester and by the end of the 2nd week of the second semester and 2nd week of the third semester if applicable.
- ii. However, in accordance with the University's general regulations, late registration may be permitted up to the end of the 3rd week of the semester on payment of a late registration fee.
- iii. Continuing students who are not registering for any courses during one or more of the semesters are required to apply for leave of absence. Failure to do so may result in your being considered to have withdrawn from the University.
- iv. At the beginning of semester 2, Year 1 of the DDS programme, students are required to purchase a recommended hand piece kit and other clinical and laboratory instruments and personal protective equipment (PPE) that would be the property of the student. These instruments will be useful when they set-up their practice. Students will also be required to purchase software licenses for clinical management software. The complete set of instruments and software licenses will cost approximately US\$6,000-7,000. The student is expected to liaise with dealers directly regarding payment. Students who do not purchase the instruments kits and/or software licences will not be allowed to proceed into the preclinical and clinical courses of the DDS programme.
- v. Students must meet the minimum competency requirements of the basic health sciences courses of each teaching unit and pass all relevant assessments administered by the various teaching units in order to be eligible to enter the clinical rotations in Year 3.
- vi. If a student's entry into Year 3 is delayed by two years or more, he/she is required to repeat Phase IB and the respective examinations.

- vii. A student whose attendance falls short of 75% of each course in Year 3 (or 85% attendance in each of the clerkships), who fails to meet the course requirements and/or is unsuccessful in the end-of-course assessments and repeat examinations that year, will be required to repeat the course (s).
- viii. A student whose attendance falls short of 75% of each course in Year 4 (or 85% in each of the clerkships), who fails to meet the course requirements and/or is unsuccessful in the end-of-course assessments and repeat examinations that year, would be required to repeat the course (s).
- ix. Any student whose attendance falls short of 85% in any clinical clerkship in Year 5 will not be eligible to appear for the final examination. Such a student is required to repeat the clerkship.
- x. The clinical training of students from Year 3 to Year 5 is monitored by way of accomplishment of minimal clinical requirements and competency in each clerkship. If students fail to accomplish the minimal clinical requirement and competency in respective clinical years of the programme, they are not allowed to progress from one clinical year to another. Such students would be required to repeat the clinical year. Students in final year are expected to complete the minimal clinical requirement and competency assessments by end of March and failure to do this will result in not being allowed to sit the final examinations in May and a grade of Incomplete entered on Banner. They will require 3 months remedial work and new satisfactory internal assessment marks before being allowed to sit the next available offering of the final examinations in August.
- xi. The requirement for entry to Year 3 of the programme is the successful completion of all courses of the respective preceding years and satisfaction of the GPA requirements.
- xii. A student failing any course(s) in Year 3 and Year 4 will be required to either re-sit the examination(s) in the failed course(s) at the next available sitting, with appropriate remediation or repeat the entire course(s).
- xiii. Semester grade point average (GPA) based on grades earned on all approved courses for which the student is registered in a semester, will be used as the basis for the determination of his/her academic standing and progression from year to year.
- xiv. A student whose GPA for a given semester is less than 2.00 shall be deemed to be performing unsatisfactorily and shall be placed on Warning.
- xv. A student on warning shall be counselled by the Dean or a designated School/Department academic advisor.
- xvi. **NOTE: A Dean's Hold will be put on the record of students who are on Warning. Such a student will have to seek counselling by the relevant representative of the School/Department before the Dean's Hold can be removed. This MUST be done within the prescribed registration period at the start of the Semester.**
- xvii. **A STUDENT ON WARNING WHOSE GPA FOR THE SUCCEEDING SEMESTER IS LESS THAN 2.0, WILL BE REQUIRED TO WITHDRAW.**
- xviii. A student who was Required to Withdraw from the Faculty MUST APPLY for re-entry to the University. The relevant admissions committee will determine the point at which the student will return to the programme and whether any exemptions will apply.
- xix. If a student has been readmitted to the Faculty all grades previously obtained, (except those for courses that the content is no longer relevant), shall continue to apply for the purpose of determining the student's GPA.

4. Programme of Study

The programme of study for the DDS degree shall last not less than twelve (12) semesters and no more than 8 years and consists of:

- a. Phase I - Four (4) semesters (sharing common courses where applicable with Medicine and Veterinary Medicine)
- b. Phase II - Eight (8) semesters

4.1 PHASE I PROGRAMME

Courses are delivered using the problem-based learning (PBL) method, which emphasises student-centred learning.

NOTE: ATTENDANCE AT PBL SESSIONS IS MANDATORY.

Dental students will follow a skills training programme, which will focus on interviewing and basic clinical examination techniques, as well as a variety of motor skills.

During Year 1, the following courses will be offered on a systemic basis: Environment and Health; Basic Paraclinical Sciences I and II, Digestion & Metabolism, The Cardiovascular System and The Renal System will be taught. The following disciplines will be covered during the courses: Anatomy, Biochemistry, Physiology, Pharmacology, Pathology, Microbiology, Public/Community Health, Behavioural Sciences and Sociology of Health. Basic Dental Sciences will also be covered during this year.

During **Year 2, Semester 1**, students will take courses in Respiration, Neurosciences & Behaviour, Special Senses, Introduction to Basic Research Methods, Research Project 1 and Oral Biology. A special programme of units in Basic Dental Sciences will take place in Year 2, Semester 2. Included are units of: Dental Material Science, Head and Neck Anatomy, Oral Biology which includes Dental Anatomy, Oral Histology and Embryology, Oral Physiology and Oral Biochemistry. Laboratory-based units of instruction in various dental techniques of Pre-clinical Operative Dentistry, Prosthodontics, Periodontology, and Paediatric Dentistry will also be conducted.

All students will be required to follow and pass examinations in the foundation courses: The Health Profession and Society; Communication Principles for Effective Health Care and PECH Practicum. No student will be allowed to graduate until (s)he has passed the examinations in these courses.

- a. In the School of Dentistry, there are end-of-semester examinations during Years 1 to 5. Courses in Years 3, 4 and 5 are usually examined on a year-long basis.
- b. The Grade Point Average (GPA) will be in effect for all students matriculating from the 2020/2021 academic year.
- c. All students are expected to attend all classes for all courses for which they are registered for examinations, including courses that are being repeated, unless they have been granted permission in accordance with any applicable Regulation.
- d. During each year of the programme, students will be evaluated in the relevant disciplines during each course as continuous assessment/ coursework examinations and at the end of the semester/ year, as specifically stated in the Course Listing.
- e. All courses in Years 1 to 5 of the programme will have at least one continuous assessment examination, in the format of a written paper, completed under invigilation conditions. Course Coordinators are encouraged to utilise other approved formative assessment modalities for other in-course examinations.
- f. A student who may have not written the final examination in a course(s), on the basis of appropriate justification (such as, in case of illness, a medical certificate complying with any applicable Examination Regulations), may request permission to transfer/ carry forward coursework marks obtained in the respective course(s), when the course/examination is repeated within eighteen (18) months.
- g. Students are asked to pay special attention to Examination Regulation 18 which states: "Any candidate who has been absent from the University for a prolonged period during the year for any reason other than illness or whose attendance at prescribed lectures, classes, practical classes, tutorial or clinical instructions has been unsatisfactory or who has failed to submit essays or other exercises set by his teachers may be debarred by the relevant Academic

Board, on the recommendation of the relevant Faculty Board, from taking any University examinations.” In accordance with University of the West Indies General Examination Regulations and Faculty of Medical Sciences Regulations, students who attain less than 75% of lecture, tutorial and/or laboratory attendance may be debarred from writing the final examination. Debarment will be recommended by the Faculty, based on information supplied by the relevant Head of Department, if the student has missed 50% or more of any of the abovementioned requirements, subject to the following:

- Student attendance at lectures, labs and tutorials and performance in coursework will be routinely checked by the Lecturer/Tutor at four-weekly intervals, counting from the beginning of the semester.
- A student will be allowed one warning. This must be in writing and will be administered after the first four weeks of the semester. If there is no improvement at the end of the next four weeks, steps towards debarment will be initiated.
- Should the Academic Board, on the recommendation of the Faculty Board, debar a student from writing the examination associated with a course, the designation recorded for such a candidate in that course will be DB (debarred).
- Failure of the Faculty to enforce this rule is not to be construed as a waiver for future breach of this regulation.

5.1 PHASE I

- A student shall not be allowed to take any one part or section of the final examination in any discipline unless (s)he attended all the required coursework tests: written, practical or oral examinations.
- All students must be registered for the examinations of the courses. Failure to register will carry an absent/failed penalty. **ANY STUDENT WHO WRITES AN EXAMINATION FOR WHICH HE/SHE IS NOT REGISTERED WILL NOT BE CREDITED FOR THE COURSE.**
- A student repeating an examination may be credited by the Board of Examiners with the coursework marks where applicable. A student may be credited with the part(s) of the examination in which (s)he has satisfied the examiners for a period not exceeding eighteen (18) months.
- Students **MUST** complete both PHASE IA and IB in their entirety before proceeding to any part of the PHASE II programme.

5.2 PHASE I EXAMINATIONS

- Environment and Health; Basic Paraclinical Sciences I and II, Digestion & Metabolism, The Cardiovascular System, The Renal System, Respiration, Neurosciences & Behaviour, Special Senses, will be examined at the end of each respective semester.
- Dental Examinations will be given to cover courses in Head and Neck Anatomy, Oral Biology, Dental Materials, Pre-clinical Operative Dentistry and Pre- Clinical Prosthodontics, Pre-clinical Paediatric Dentistry, Pre-clinical Periodontology.
- Examinations may consist of written papers, which may include essays, multiple choice questions, practicals and/or orals.
- Successful completion of Phase IA and IB must be achieved before proceeding to Phase II, Part I (Year 3). No exemption will be granted.

5.3 PHASE II PROGRAMME

The requirement for entry to the Phase II (Part I and II) programme is the successful completion of all courses in the Phase I programme.

Phase II spans eight (8) semesters or three (3) years.

PHASE II Part I – YEAR 3

Only after having successfully completed the Phase IA and Phase IB examinations, students embark upon the clinical Phase II programme. Semester 1 includes orientation and introduction to the clinical disciplines. Students are made familiar with infection control protocols, clinical procedures, patient appointment system, clinical records, their responsibilities and the regulations governing the treatment of patients under supervision. Acceptable dress codes and professional behaviour demands are emphasised. There is an introductory lecture series on Ethics, Confidentiality and Professionalism. Formal clinic rotations commence in semester 2 after successful completion of an OSCE examination and internal assessments.

PHASE II Part II – YEARS 4 & 5

During the fourth and fifth year of the programme, students clinical experience in the various patient clinics continues throughout the clerkships. By the end of the fourth year, most of the primary didactic teaching is completed. The fifth year is devoted to in-depth study of all Clinical Dental Science subjects to develop a wider and deeper understanding. This is achieved through topic teaching, case analyses and clinical conundrums using Case Based Learning (CBL) methodology. It should be realised that **every** patient encountered is a CBL exercise.

5.4 PHASE II EXAMINATIONS

- i. In the Phase II examinations, each candidate must satisfy the examiners in the clinical/practical/oral examinations.
- ii. The Phase II (Part 1) examinations are held at the end of Year 3, semester 2 in May and covers General Medicine/General Surgery, examined as DENT 3610 Human Diseases.
- iii. Candidates who fail the Phase II (Part 1) examinations will be allowed to re-sit the examination in August of that year. If they fail the second attempt, they will be required to repeat the year.
- iv. The Phase II (Final) examinations are held in May/June of the final year and cover multiple clinical disciplines in the following clerkships: Restorative Dentistry (DENT 5620); Child Dental Health (DENT 5630) and Oral Diseases (DENT 5640). Ethics, Law & Jurisprudence (DENT 5601), while not examinable in May/June, students must pass the continuous assessments for this course.
- v. Students in final year are expected to complete the minimal clinical requirements and competency in the clerkships by end of March and failure to do this will result in their not being allowed to sit the final examinations in May/June and a grade of Incomplete entered on Banner for all 3 clerkships. They will require 3 months remedial work and new satisfactory internal assessment marks before being allowed to sit the next available offering of Final examinations in August. Failure to complete the minimal clinical requirements and competency in the clerkships before the August final examinations will result in a student having failed those clerkships. Such a student will be required to repeat the final year. A student on warning who fails the final year Clerkships will be required to withdraw.

5.5 COURSEWORK

- a. A student may request to submit coursework assignments, essays, etc. after the stipulated deadline date on the basis of appropriate justification (such as, in case of illness, a medical certificate complying with any applicable Examination Regulations). This request must be normally made within forty-eight (48) hours after the stipulated deadline date and must be addressed to the Director, who in consultation with the relevant Head of Department and Course Lecturer/Coordinator may allow the extension.
- b. In cases where the medical submitted for a missed coursework examination is approved by the Campus Health Service Unit, the candidate may be graded on the tests he/she has taken as if such tests constitute the full test requirement provided that the tests not taken constitute no more than 20% of the total mark for all the tests. If the tests not taken constitute more than 20% of the total mark for all the tests, the candidate shall be granted a substitute coursework examination at a date prescribed by the relevant Course Coordinator.

5.6 COURSES ASSESSED 'IN-COURSE ONLY'

- a. A student who fails to attain the passing grade in any 'In-Course Only' assessed course may be required to repeat the course and assessments and in some cases, the year.
- b. It is a requirement that students attain a recorded attendance at lecture, tutorial and/or laboratory for each of these courses of not less than 75% for this performance criterion to be certified as satisfactory.

- c. In accordance with Faculty of Medical Sciences Regulations (General Information: Debarments, Repeats, Withdrawals): “Where there is dissatisfaction with the performance of a student, the Director/Head of a Department may report the matter to the Dean and the Faculty Board which may recommend to the Academic Board (St. Augustine) that the student ... either repeat the course or be required to withdraw from the Faculty of Medical Sciences.”
- i. Unsatisfactory performance in “In-Course Only” assessed courses will be reported to the Dean and the Faculty Board, based on information supplied by the relevant Head of Department, if the student has a certified attendance record of 50% or lower, subject to the following:
- Student attendance at lectures, labs and tutorials and performance in Coursework will be routinely checked by the lecturer/tutor at four-weekly intervals, counting from the beginning of the semester.
 - A student will be allowed one warning. This must be in writing and will be administered after the first four weeks of the semester. If there is no improvement at the end of the next four weeks, steps towards formal recommendation of the student either repeating the course or being required to withdraw from the Faculty will be initiated.
- ii. Failure of the Faculty to enforce this rule is not to be construed as a waiver for future breach of this regulation.

5.7 CLINICAL CLERKSHIP COURSES

The clinical skills training of students from Years 3 – 5 is monitored by way of accomplishment of specific knowledge, attitudes and skills. A very important assessment tool is the Clinical Competency Checklist in each Clerkship.

If students fail to accomplish all competencies required in the clerkships of the respective years of the programme, (as validated by having all items on the checklist signed off by the authorised faculty), they cannot be awarded a passing grade for the relevant Clinical Clerkship Course.

Students in final year are expected to complete the minimal clinical requirements and competency in the clerkships by end of March and failure to do this will result in not being allowed to sit the final examination in May/June and a grade of Incomplete entered on Banner. They will require 3 months remedial work and new satisfactory internal assessment marks before being allowed to sit the next available Final examinations in August.

5.8 YEAR V COURSES

Students who have failed and are repeating any Year V course will be required to complete a period of prescribed remedial clinical work prior to the repeat examination. The nature and duration of this work will be decided by the Course Coordinator. Students who do not satisfactorily complete this remedial work will not be allowed to sit the repeat examination.

6. GRADING SCHEME

The Grading Scheme for the DDS degree programme effective 2020/ 2021 shall be as follows:

GRADE	% RANGE	QUALITY POINTS
A+	90-100	4.30
A	80-89	4.00
A-	75-79	3.70
B+	70-74	3.30
B	65-69	3.00
B-	60-64	2.70
C+	55-59	2.30
C	50-54	2.00
F1	40-49	1.70
F2	30-39	1.30
F3	0-29	0.00

7. Eligibility for the Degree

- a. A student is eligible for the award of the DDS degree following satisfactory completion of all courses and passing the necessary examinations.
- b. A Cumulative Grade Point Average based on all courses completed for which grades have been obtained (excluding those taken on a Pass/Fail basis), will be calculated and recorded on the student's transcript.
- c. A Grade Point Average based on grades obtained on ALL COURSES registered for, (excluding those taken on a Pass/Fail basis and Foundation courses (PECH 1001, PECH 1101, PECH 1102) and also courses Research Project in Year 2 and Year 3 and the Electives and Practice management courses in Year 4,) whether passed or failed, will be used in the calculation for determination of the class of the degree.
- d. Distinction, Honours or a Pass degree will be awarded based on the Grade Point Average (GPA) of all courses taken (passed and failed), excluding those taken on a Pass/Fail basis and those listed above in c.

Category of Degree	GPA
Distinction	3.60 and above
Honours	3.30 – 3.59
Pass	2.00 – 3.29

8. DDS - COURSE LISTING

PHASE IA

YEAR 1

REQUIRED:

Course Code	Course Title	Credits	Semester
MDSC 1401	Environment and Health	6	1
MDSC 1402	Digestion and Metabolism	6	2
MDSC 1403	The Cardiovascular System	6	2
MDSC 1404	The Renal System	4	2
MDSC 1405	Basic Paraclinical Sciences I	5	1
MDSC 1406	Basic Paraclinical Sciences II	4	1
DENT 1601	Basic Dental Sciences	3	1, 2
PECH 1001*	The Health Professional and Society	3	1
PECH 1101*	Communication Principles for Effective Health Care	3	2
PECH 1102*	PECH Practicum	3	2
SPAN 1007	Spanish for Beginners I (Compulsory Elective)	3	1,2

*Pass/Fail courses

PHASE IB

YEAR 2

Course Code	Course Title	Credits	Semester
MDSC 2401	Respiration	5	1
MDSC 2402	Neurosciences & Behaviour	6	1
MDSC 2405	The Special Senses	4	1
MDSC 2406*	Research Project I	3	2
MDSC 2407	Introduction to Research Methods and Biostatistics	3	1
DENT 2602	Head & Neck Anatomy	4	2
DENT 2603	Oral Biology	7	1, 2
DENT 2604	Pre-clinical Operative Dentistry	4	2
DENT 2605	Dental Materials Science	2	2
DENT 2606	Pre-clinical Prosthodontics	4	2
DENT 2607	Pre-clinical Periodontology	2	2
DENT 2608	Pre-clinical Paediatric Dentistry	1	2

*Pass/Fail courses

PHASE II Part I

YEAR 3

Course Code	Course Title	Credits	Semester
MDSC 3406*	Research Project II	3	1
DENT 3601	Dental Public Health I	1	1, 2
DENT 3602	Introduction to Clinical Dentistry	2	1, 2
DENT 3603	Periodontology I	2	1, 2
DENT 3604	Fixed Prosthodontics I	4	1, 2
DENT 3605	Endodontics I	3	1, 2
DENT 3606	Operative Dentistry I	1	1, 2
DENT 3607	Removable Prosthodontics I	4	1, 2
DENT 3608	Orthodontics I	3	1, 2
DENT 3609	Paediatric Dentistry I	2	1, 2
DENT 3610	Human Disease (General Medicine, General Surgery)	4	1, 2
DENT 3620	Restorative Dentistry Clerkship I	7	2, 3
DENT 3630	Child Dental Health Clerkship	6	2, 3
DENT 3640	Oral Diseases Clerkship I	4	2, 3

***Pass/Fail courses**

PHASE II Part II

YEAR 4

Course Code	Course Title	Credits	Semester
DENT 4601	Dental Public Health II	2	1, 2, 3
DENT 4602	Gerodontology	3	1, 2, 3
DENT 4603	Oral Pathology	4	1, 2, 3
DENT 4604	Oral Radiology	3	1, 2, 3
DENT 4605	Oral Medicine	4	1, 2, 3
DENT 4606	Oral & Maxillofacial Surgery	5	1, 2, 3
DENT 4607	Periodontology II	2	1, 2, 3
DENT 4608	Fixed Prosthodontics II	2	1, 2, 3
DENT 4609	Orthodontics II	3	1, 2, 3
DENT 4610	Paediatric Dentistry II	2	1, 2, 3
DENT 4611*	Elective	2	2
DENT 4612*	The Dental Team, Practice Management and Continuous Quality Improvement	2	2
DENT 4620	Restorative Dentistry Clerkship II	15	1, 2, 3
DENT 4630	Child Dental Health Clerkship II	10	1, 2, 3
DENT 4640	Oral Diseases Clerkship II	9	1, 2, 3

***Pass/Fail courses**

YEAR 5

Course Code	Course Title	Credits	Semester
DENT 5601	Ethics, Law & Jurisprudence	1	1, 2
DENT 5620	Restorative Dentistry Clerkship III	8	1, 2
DENT 5630	Child Dental Health Clerkship III	6	1, 2
DENT 5640	Oral Diseases Clerkship III	10	1, 2

9. DDS FINAL EXAMINATIONS/ASSESSMENT

The final DDS Phase II Part II examinations take place in May/June of the final (5th) Year. Re-sits are held in August.

There are THREE SECTIONS:

- **SECTION I - RESTORATIVE DENTISTRY (DENT 5620)**
- **SECTION II - CHILD DENTAL HEALTH (DENT 5630)**
- **SECTION III - ORAL DISEASES (DENT 5640)**

Each Section comprises:

- a. Written Paper
- b. Clinical Examination

Candidates who do not reach the minimum (50%) pass mark required in **each** of the **written** and **clinical** examinations in each Section, at one and the same sitting, shall **fail that section**.

Candidates are required to re-sit **all** the components of any one Section failed. For a second attempt, the Internal Assessment mark in the Section(s) failed will be carried forward. For a third attempt, the entire Final Year must be repeated in the Section(s) failed and a new, pass-level, Internal Assessment mark obtained.

WRITTEN PAPERS

Each written paper may consist of essays, short-answer questions or multiple-choice questions covering the related clerkships. All questions must be attempted.

CLINICAL EXAMINATIONS

- **SECTION I – RESTORATIVE DENTISTRY (DENT 5620)**
Candidates will be presented with material relevant to a previously unseen restorative case. Candidates will examine the case, which may consist of study models, radiographs, clinical photographs and other data. Each candidate would then present the case and be examined regarding the restorative management of the patient.
- **SECTION II - CHILD DENTAL HEALTH (DENT 5630)**
Candidates will be presented with clinical information, study models, radiographs and clinical photographs of a previously unseen case. Candidates will then be examined on matters in Paediatric Dentistry and Orthodontics related to this case.
- **SECTION III - ORAL DISEASES (DENT 5640)**
Candidates will be presented with material relevant to two (2) previously unseen cases. Candidates will be expected to describe the full history, clinical examination, differential diagnoses and formulate a treatment plan. The case will then be discussed with the Examiners.

INTERNAL ASSESSMENTS

These will be conducted by each of the clerkships concerned and involve patient, laboratory and theoretical evaluations as well as professionalism, punctuality and clinic attendance.

Each discipline's internal assessment in year 5 will contribute to a combined 30% towards the overall final mark in each section of the Final Examinations.

In each section of the final examination, the internal assessment mark will be derived as follows:

RESTORATIVE DENTISTRY:

Clinical Assessment in Periodontology (CAP)	3% *	Must Pass
Periodontology Cases Reports	2% *	Must Pass
Skilled Clinical Operative Test in Endodontics (SCOT)	5% *	Must Pass
Clinical Assessment in Removable Prosthodontics	5% *	Must Pass
Assessment in Crown & Bridge	5% *	Must Pass
Combined Case Presentation	5% *	Must Pass
Combined Written (Prosthodontics, Conservative Dentistry/Endodontics, Crown & Bridge)	4%	
Periodontology Written	1%	
Professionalism	10%	Must Pass

CHILD DENTAL HEALTH:

Paediatric Dentistry	10% *	Must Pass
Orthodontics	10% *	Must Pass
Dental Public Health	10% *	Must Pass
Professionalism	10%	Must Pass

The assessments for the disciplines are as follows:

- Paediatric Dentistry- Written exam and Clinical Case Assessment (Report/ Viva)
- Orthodontics- Case Report, Growth & Development Project and Journal
- Dental Public Health- Written exam

ORAL DISEASES:

Spotter examination		
Oral and Maxillofacial Surgery	5% *	Must Pass
Oral Medicine	5% *	Must Pass
Oral Pathology	5% *	Must Pass
Oral Radiology	5% *	Must Pass
Combined clinical examination	10% *	Must Pass
Professionalism	10%	Must Pass

In order to pass the internal assessment in any section, candidates must:

- (1) Attain at least a 'pass' in EACH of the **clinical** assessments in each discipline of any section and the Combined Case Presentation. **AND**
- (2) achieve an overall grade of 50% in the **combined** clinical and written and/or other marks of each section. Unsuccessful candidates will be eligible to repeat the failed component/s at the next available sitting of the respective examination/s. This will be scheduled at the discretion of the Unit Head. **AND**
- (3) Obtain a pass mark for professionalism

Candidates who fail to meet the required 50% pass mark in an internal assessment shall not be permitted to enter for any of the final examinations.

Summary of marks allocation for the Final DDS PHASE II, Part 2 Examinations:

Each section carries 250 marks including written and clinical examination. However, the final marks are presented out of 100% in each section.

	Internal Assessments*	Professionalism*	Written Paper**	Clinical**	Total**
RESTORATIVE DENTISTRY SECTION I	30%	10%	30%	30%	100%
CHILD DENTAL HEALTH SECTION II	30%	10%	30%	30%	100%
ORAL DISEASES SECTION III	30%	10%	30%	30%	100%

* Minimum pass = 50% to enter the Final Examinations

** Minimum pass = 50%

SCHOOL OF VETERINARY MEDICINE

Doctor of Veterinary Medicine (DVM)

1. Accreditation

The University of the West Indies School of Veterinary Medicine's Doctor of Veterinary Medicine (DVM) programme is fully accredited by the Caribbean Accreditation Authority for Education in Medicine and other Health Professions (CAAM-HP).

CAAM-HP is the legally constituted body established under the aegis of the Caribbean Community (CARICOM), to determine and prescribe standards and to accredit programmes of medical, dental, veterinary and other health professions education on behalf of the contracting parties in CARICOM.

2. General

In most developed countries, veterinary surgeons outrank doctors, lawyers and journalists as one of the most trusted professions. Veterinary surgeons are expected to be individuals of integrity, exemplary moral character, strong motivation, outstanding leadership ability and sincere dedication to the service of society. The School of Veterinary Medicine strives to provide an environment that is conducive to the development of the proper attitudes in future veterinary surgeons.

a. Dress Code and Conduct

The veterinary profession serves the public through human-animal interactions. Students must understand the need to project personal images that demonstrate care and sensitivity to the public and that do not degrade the veterinary profession and/or the institution responsible for the professional training programme. An individual's dress, personal appearance and deportment, should reflect sensitivity to and respect for others; promote safety and enhance a positive school climate. For laboratory/clinic sessions, coats/coveralls must be clean and shoes must fully cover the feet.

b. Attendance and Punctuality

Students are expected to be punctual and remain in class for the entire period. In unusual extenuating circumstances requiring the student to leave early, professional courtesy dictates that the relevant lecturer is provided advance notice.

Students are advised that a criterion for successful completion of each course in the DVM programme is attendance in excess of 75% in that course. Students must ensure that they sign the attendance registers once they attend lecture/laboratory sessions.

NB Students are advised that a blended mode of learning has been implemented and Lecturers will be taking attendance in online lectures/laboratory sessions.

c. Foreign Language Requirements for DVM programme

Candidates are advised to pass a foreign language at CSEC or GCE O levels prior to entry. Those who do not have a pass in a foreign language will be required to take a compulsory elective Spanish Course SPAN 1007.

d. Smoke-Free Policy

The School of Veterinary Medicine is a smoke-free area.

e. Immunization

It is a requirement that all students of the School of Veterinary Medicine must be immunised against Hepatitis, Rabies, Tetanus and Yellow Fever.

f. Classrooms and Laboratories

Eating (including chewing gum) and drinking are prohibited in classrooms and laboratories in the School.

3. Applicants with Health Issues or a Disability

The University of the West Indies (St Augustine Campus) is committed to promoting access to people with disabilities, while maintaining academic standards. A further commitment is to work towards supporting and enabling students with physical disabilities, sensory impairment, specific learning disabilities, special psychological needs and medical conditions which may have an impact on day-to-day activities, to take part in all aspects of the University's academic and social programmes.

The School of Veterinary Medicine (SVM) supports the University's policy on applications from disabled persons and welcomes applications from disabled persons and persons with health issues.

Being disabled does **not** mean that an applicant will not be admitted to the degree programme. It is the impact of a disability or health condition on a student's ability to study and practise as a veterinarian that is considered.

4. Regulations

4.1. ENTRY REQUIREMENTS

4.1.1. GENERAL MATRICULATION REQUIREMENTS

Minimum of five (5) CSEC (CXC) subjects (Gen. Prof grades I-III from 1998 onwards) and/or GCE O-Levels (grades A-C) including English Language, Mathematics, Biology, Chemistry and one other subject. Physics at CSEC or GCE O-Levels as a fifth subject is highly recommended for admission into the programme.

4.1.2. ACADEMIC QUALIFICATIONS FOR ADMISSION

The academic requirements for admission to the degree programme are based on the applicant's academic proficiency and attainment in any of the following:

4.1.2.1. APPLICANTS WITHOUT DEGREES

A. Caribbean Advanced Proficiency Examinations (CAPE) and / or General Certificate of Education (GCE) Advanced ('A') Level Examinations

Passes in three (3) two-Unit CAPE or three (3) A-Level subjects according to either one of the following schemes:

Scheme A:

Chemistry, Biology/Zoology and either Physics or Math

Scheme B:

Chemistry, Biology/Zoology, and any other A-Level subject.

B. Programmes/Courses which are considered equivalent to CAPE, at institutions recognised by The University of the West Indies.

Such applicants must have obtained three (3) passes in the approved examinations including Chemistry and Biology/Zoology. The third subject can be Physics, Mathematics or another approved subject.

C. Graduates of the Pre-Health Professions Programme

Applicants from The UWI St. Augustine Pre-Health Professions Programme may be considered for entry provided that they have attained a minimum cumulative Grade Point Average [GPA] of 3.0 and a minimum grade of B in each of the appropriate science subjects.

D. Transfers from the Faculties of Science & Technology and Food & Agriculture

Applicants seeking transfer from the Faculties of Science & Technology of The UWI & Faculty of Food and Agriculture at St. Augustine, will only be considered on completion of the Preliminary and/or Introductory courses of the programme. Such applicants must complete and submit a Transfer Form by the second Friday in January of the year of application.

The academic standard for entry will be based on the Cumulative Grade Point Average and performance in Chemistry, Biology and one other subject.

E. Transfers from the Faculty of Engineering

Applicants seeking transfer from the Faculty of Engineering with 'A-Level equivalent in Chemistry and Biology/Zoology will only be considered on completion of the Preliminary and/or Introductory courses of the programme. Such applicants must complete and submit a Transfer Form by the second Friday in January of the year of application.

F. Graduates of the Bachelor of Basic Medical Sciences (BBMEDSCI) Programme

Persons who are accepted into The UWI (Mona) three-year Bachelor of Basic Medical Sciences (BBMedSci) Degree programme shall not be permitted to transfer to the DVM programme at any time during their course but may apply for entry in any subsequent year after obtaining the degree. In such cases, exemptions of selected courses may be considered.

Persons who have completed the first two years of a 4-year degree programme at a university acceptable to The University of the West Indies will be considered for entry into the DVM programme.

The academic standard for entry will be based on the cumulative Grade Point Average and performance in Chemistry and Biology with a minimum Grade Point Average greater than 2.5. High priority will be given to candidates who have passed Mathematics and Physics at the CSEC/CXC General Proficiency, 'O-Level/BGCSE or equivalent foreign examinations.

4.1.2.2. HOLDERS OF ASSOCIATE DEGREES

- A. **A triple major Associate Degree in Sciences** (Chemistry, Biology and a third subject) from an approved Community College with a Grade Point Average greater than 2.5 is the minimum academic standard acceptable for entry.
- B. **The Associate in Science Degree in General Agriculture** from the College of Agriculture, Science and Education (CASE), Jamaica with a GPA of 3.0 or greater.

4.1.2.3. APPLICANTS WITH UNIVERSITY DEGREES

- A. Persons holding **first degrees from The UWI's Faculty of Science & Technology** with a minimum of lower second-class honours may be considered for entry.

The academic standard for entry will be based on the cumulative Grade Point Average and performance in Chemistry, Biology and one other subject.

- B. Persons holding **science degrees from a recognized university/community college** other than The University of the West Indies may also be considered provided that:
 - i. The university which granted the degree is recognised as competitive
 - ii. Credits have been obtained in Biology and Chemistry
- C. Applicants with **first degrees other than degrees in the natural sciences** will also be considered provided that:
 - i. The university which granted the degree is recognised as competitive
 - ii. Credits have been obtained in Chemistry and Biology and one other subject over two semesters during their university programme **OR** they hold at least Grades I/II passes in Chemistry and Biology at Units I & II CAPE, GCE 'A-Level or approved equivalent.
- D. Applicants with **the International Baccalaureate (IB)** satisfying the following conditions:
 - i. Applicants should have successfully completed at least two of the appropriate subjects at higher level (HL) from group 4 and group 5 of the IB Programme.
 - ii. These subjects include mathematics, biology, physics and chemistry.
 - iii. Satisfactory completion of Language A1 (prior to 2013) and Language A (as of 2013). A score of 4 or above is considered to demonstrate proficiency in English Language at a standard that is expected in the Faculty.

4.1.2.4. Applicants with Higher Degrees

Applicants holding a Masters/PhD in the Basic Sciences (e.g. Biology, Physics, Biochemistry, Pharmacology, Pathology, Microbiology, Forensic Science, Occupational Health), having met the relevant academic and non-academic requirements, may also be considered for entry.

The Faculty will not accept Masters in Allied Health or the Masters in Public Health as an entry criterion.

4.1.3. NON ACADEMIC (CO-CURRICULAR) CRITERIA

- i. An applicant's chances of entry will be enhanced by documented and certified involvement in extracurricular activities in the years prior to his/her application.

- ii. In considering these activities, the University places emphasis on applicant's voluntary participation in community/social projects, although consideration is given to other co-curricular activities, experiences and abilities (music, sports, debating, proficiency in a foreign language, etc.).
- iii. All applicants are required to submit certified evidence of their involvement in co-curricular activities in support of their application.
- iv. Both the duration of involvement and level of responsibility of the applicant in each activity shall be taken into consideration and certified documents must state these clearly.
- v. In addition, applicants should submit a short 250 - 300 word autobiographical summary outlining the reasons for their career choice.
- vi. Applicants may also be required to attend an interview.
- vii. In addition to all of the above and over the next 5 years, the Faculty will be using a variety of aptitude and psychometric tests to assist the admissions committee in deciding on appropriate admissions to the Faculty.

ACADEMIC SCORING CRITERIA:

Maximum Score will be 30

HOLDERS OF OTHER APPROVED QUALIFICATIONS*

CAPE	A-Level	FST Prelim (N1)	FPAS / S N2, N3, N4	SCORE (Points)
I	A	A+ A	A+ A	5
II	B	A-	A- B+	4
III	C	B+ B	B B-	3
IV	D	B-	C+ C	2
V	E	C+	C-	1

HOLDERS OF UNDERGRADUATE AND ASSOCIATE DEGREES:

Grade Point Average (GPA)	Class of Undergraduate Degree (Pre-GPA)	SCORE (Points)
≥ 3.60	First Class Honours	30
3.30-3.59	Upper Second Class	29
Rating for Pre-GPA	Upper Second Class	28.5
3.20-3.29		27
3.10-3.19		26
3.00-3.09		25
2.40-2.99	Lower Second Class	23
Rating for Pre-GPA	Lower Second Class	22
2.20-2.39		19
2.00-2.19		18
1.00-1.99		0
Rating for Pre-GPA	Pass	0

ACADEMIC SCORING CRITERIA FOR MSC, MPHIL OR PHD

- MSc in a pure or applied science + 2 to 4 added to BSc score as determined by the Admissions Committee.
- MPhil in a pure or applied science +3 to 5 added to BSc score as determined by the Admissions Committee.
- PhD in a pure or applied science will be given a score of 28-30 as determined by the Admissions Committee.

CO-CURRICULAR RATING:

LEVEL OF ACTIVITY	DURATION	POINT(S)
1. Animal and Veterinary Related Experiences		
Volunteer Service	More than 2 areas of service	2
	6 months – 2 years each	1
	Less than 6 months service	0
2. Leadership Experience		
Leadership position: e.g. Head Girl / Boy; School Prefect; President of Youth Club	More than 1 position and/or 1 year and more of service	2
Other	1 position	1
3. Interpersonal Experiences and Communication Skills		
Teamwork	Simple Description	1
	Further details inclusive of length of time	2
School Activities / Formal Presentations	Simple Description	1
	Further details inclusive of length of time	2
Both Areas	Further details inclusive of length of time	2
4. Reward for Excellence		
International / Regional Representation	Representation of school or country in sport or other acceptable activity	2
National Representation	School, Church, Other	1
Fluency in a Foreign language		1
5. Work Experience		
Job Description	More than 1 area of service and/or 1 year and more of service	2
	6 months – 1 year service	1
	Less than 6 months service	0
6. Other Activities		
Not represented in any other area	More than 1 activity	2

- The co-curricular ranking scheme is subjective.
- Each major area is allocated no more than 2 points for a maximum of 10 points.
- Once a student reaches the 10 points, nothing else is considered.
- No points are given for CXC or CAPE passes.

5. General Objectives of the Educational Programme

On successful completion, the graduates of the Doctor of Veterinary Medicine (DVM) Programme will be able to:

A. BASIC KNOWLEDGE

1. Demonstrate knowledge and understanding of normal structure of the body; mechanisms of disease; concept of drug pharmacokinetics and drug dynamics; and the normal physiology and pathology of all domestic animal species.
2. Demonstrate knowledge of the clinical manifestations and principles of management, control and prevention of common diseases affecting domestic species and regionally relevant wildlife and exotic species.
3. Demonstrate knowledge in general surgical principles and skills; evaluation of surgical cases; and specific surgical procedures.
4. Demonstrate knowledge and understanding of anaesthesia, and alleviation of pain and suffering in animals.

5. Demonstrate knowledge of One Health, trans-boundary diseases, World Organisation for Animal Health (WOAH; formerly OIE), the World Trade Organisation (WTO) agreement, Convention on the International Trade in Endangered Species (CITES) and Sanitary and Phyto-sanitary (SPS) compliances.
6. Demonstrate knowledge of the processes involved in importation and exportation of animals and animal-related products.
7. Demonstrate knowledge in the application of appropriate techniques to manage herd and reproductive health of domestic animal species.
8. Demonstrate basic knowledge of economic considerations in the various animal production systems.
9. Understand the relevance of emerging issues (including eco-issues, climate change and 'green' approaches), and ethical issues (including genetic modification) to the future of the veterinary profession, and demonstrate the importance of lifelong learning in the field of veterinary medicine.
10. Understand the nature of agents that cause disease, how these agents generate disease and how the host defends itself from the agents.
11. Demonstrate knowledge and understanding of modern principles and methods associated with milk and meat hygiene, principles of HACCP, good manufacturing principles, the administration of Public Health and the application of Veterinary Public Health.
12. Demonstrate knowledge of qualitative and quantitative epidemiological principles, sampling, study design and testing samples for evaluation.
13. Understand various animal production systems and the management principles associated with each.
14. Understand basic principles of entrepreneurship and practice management.

B. SKILLS

1. Demonstrate effective methodologies for identifying animal health issues by appropriate history taking methods and thorough physical examinations on any animal species, particularly the major domestic species.
2. Critically analyse clinical problems using clinical and laboratory investigations.
3. Prepare and maintain accurate clinical records.
4. Use the various appropriate diagnostic and treatment procedures, including emerging technologies for diagnostics and therapeutics, required for veterinary case resolution in all species.
5. Confidently perform routine soft tissue and basic orthopaedic procedures on major domestic species and appropriately conduct proper pre and post- surgical management.
6. Apply appropriate techniques in performing anaesthesia, pain management and patient welfare.
7. Perform triage and provide emergency critical care to all major domestic species.
8. Demonstrate effective oral and written interpersonal communication skills, and competence in the use of digital communication technologies.
9. Demonstrate effective information gathering, critical thinking, problem solving through basic and applied research for lifelong learning.

C. ATTITUDE/VALUES

1. Comply with current standards for the humane and ethical treatment of animals.
2. Comply with recognised ethical principles and professionalism when dealing with clients and colleagues.
3. Comply with professional and ethical standards in political engagement and advocacy.

6. Outline of the Degree Programme

The 5-year DVM curriculum is designed with two major divisions – the Preclinical Years, followed by two (2) years of Clinical Education.

Year I Semester II course PECH 1101 is taken jointly with students from other Schools (Dentistry and Medicine) in the Faculty. This is a feature of the professional programmes in the Faculty which distinguishes it from all others and serves as a platform to introduce health care professionals to the concepts of professionalism and ethics under the umbrella of 'The One Health - One Medicine' concept. This concept links human, animal and environmental health and seeks to forge co-equal, all-inclusive collaborations between physicians, veterinarians, dentists, and other health and environmentally related disciplines.

Students are required to complete a minimum of six (6) credits of Foundation Courses. Students are required to complete either Caribbean Civilization (FOUN 1101) or Law, Governance and Society (FOUN 1301), and FOUN 1102 Academic Writing for Different Disciplines

Clinical Skills and Professional Development are now embedded throughout the DVM programme. Courses in Years 1 – 4 will be presented by a mixed mode which emphasises student-centred learning and includes the use of the problem-based method, didactic lectures and laboratory sessions. The DVM students are encouraged to develop community-based research projects.

Problem based learning (PBL) or case-based teaching/learning is interspersed throughout Years 1 – 3 of the five-year curriculum. It is provided to reinforce the need for integrating basic knowledge with applications and eventually with diagnosis and management of clinical cases.

Students will have increased exposure to clinical cases by a variety of methods. Students have the opportunity to do one of their clinical clerkships at one of the partner universities. Those students who wish to practice in the USA, Canada or elsewhere have this opportunity to do so via the Program for the Assessment of Veterinary Education Equivalence (PAVE) pathway.

A student is eligible for the award of the DVM degree following satisfactory completion of the relevant courses and passing the necessary examinations.

GRADING SCHEME

The Grading Scheme for the DVM degree programme effective 2016/2017 shall be as follows:

GRADE	% RANGE	QUALITY POINTS
A+	90-100	4.30
A	80-89	4.00
A-	75-79	3.70
B+	70-74	3.30
B	65-69	3.00
B-	60-64	2.70
C+	55-59	2.30
C	50-54	2.00
F1	40-49	1.70
F2	30-39	1.30
F3	0-29	0.00

Note: For returning/continuing students, the new F1, F2, F3 bands will be applied effective 2016/2017. This change will **not** be applied retroactively.

7. Registration

Registration for the DVM programme takes place by semester, i.e. at the beginning of each semester for Years 1 to 4. Students must register for courses that they wish to pursue, in each semester, by the end of the 1st week of the first semester and by the end of the 2nd week of the second semester. Year 5 registration starts in Year 4 semester III of the DVM programme.

However, in accordance with the University's general regulations, late registration may be permitted up to the end of the 4th week of the semester on payment of a late registration fee.

Continuing students who are not registering for any courses during one of the semesters are required to apply for leave of absence. Failure to do so may result in your being considered to have withdrawn from the University.

8. Progress Through the Programme

- The requirement for entry to Years 2, 3, 4 and 5 of the programme is the successful completion of all courses of the respective preceding Year and satisfaction of the GPA requirements.
- A Semester grade point average (GPA) based on grades earned on all approved courses for which the student is registered in a semester, will be used as the basis for the determination of his/her academic standing.
- A student whose GPA for a given semester is less than 2.00 shall be deemed to be performing unsatisfactorily and shall be placed on Warning.

- d. A student on warning shall be counselled by the Dean or a designated School/Department advisor.

NOTE: A Dean's Hold will be put on the record of students who are on Warning. Such a student will have to seek counselling by the relevant representative of the School/Department before the Dean's Hold can be removed. This MUST be done within the prescribed registration period at the start of the Semester.

- e. **A STUDENT ON WARNING WHOSE GPA FOR THE SUCCEEDING SEMESTER IS LESS THAN OR EQUAL TO 1.99, WILL BE REQUIRED TO WITHDRAW.**
- f. A student who was Required to Withdraw from the Faculty MUST APPLY for re-entry to the Campus Registrar.
- g. If a student has been readmitted to the Faculty all grades previously obtained, (except those for courses that the content is no longer relevant), shall continue to apply for the purpose of determining the student's GPA.

9. Program for the Assessment of Veterinary Education Equivalence (PAVE)

Clinical Year for students wishing to matriculate under the PAVE Pathway

It is the student's responsibility to ensure that they apply to the American Association of Veterinary State Boards and follow the steps to obtain their PAVE certificate. The requirements for accessing PAVE are available from the website (<https://www.aavsb.org/licensure-assistance/international-pathway/complete-your-pave-application/>).

Students will be required to:

1. inform the SVM in writing of their intention to matriculate under the PAVE Pathway by the beginning of Year III Semester I.
2. complete 50% of the DVM programme.
3. register for the Qualifying Science Examination (QSE).

The QSE examination is held in January, May and September. We recommend that students sit the QSE in September, which corresponds to the beginning of Year IV. Once students have passed the QSE they will qualify to apply to the partner university to complete the Evaluated Clinical Experience component.

10. Examinations

10.1. General

- a. In the School of Veterinary Medicine, there are end-of-semester examinations during Years 1 to 4. Courses in Year 5 are usually examined on a year-long basis.
- b. All students are expected to attend all classes for all courses for which they are registered for examinations, including courses that are being repeated, unless they have been granted permission in accordance with any applicable Regulation.

During each year of the programme, students will be evaluated in the relevant disciplines during each course as continuous assessment/ coursework and Objective Structured Clinical Examination (OSCE) examinations and at the end of the semester/year, as specifically stated in the Course Listing.

All courses in Years 1 to 4 of the programme will have at least one continuous assessment examination, in the format of a written paper, completed under invigilation conditions. Course Coordinators are encouraged to utilise other approved formative assessment modalities for other in-course examinations.

A student failing a course(s) may be allowed to re-sit the examinations in the failed course(s) at the next available sitting, up to a maximum of twelve (12) credits.

A student who may have not written the final examination in a course(s), on the basis of appropriate justification (such as, in case of illness, a medical certificate complying with any applicable Examination Regulations), may request permission to transfer/ carry forward coursework marks obtained in the respective course(s), when the course/examination is repeated within eighteen (18) months.

- a. Students are asked to pay special attention to Examination Regulation 18 which states:

“Any candidate who has been absent from the University for a prolonged period during the year for any reason other than illness or whose attendance at prescribed lectures, classes, practical classes, tutorial or clinical instructions has been unsatisfactory or who has failed to submit essays or other exercises set by his teachers may be debarred by the relevant Academic Board, on the recommendation of the relevant Faculty Board, from taking any University examinations.”

In accordance with University of the West Indies General Examination Regulations and Faculty of Medical Sciences Regulations, students who attain less than 75% of lecture, tutorial and/or laboratory attendance may be debarred from writing the final examination. Debarment will be recommended by the Faculty, based on information supplied by the relevant Head of Department, if the student has missed 50% or more of any of the abovementioned requirements, subject to the following:

- Student attendance at lectures, labs and tutorials and performance in coursework will be routinely checked by the Lecturer/Tutor at four-weekly intervals, counting from the beginning of the semester.
- A student will be allowed one warning. This must be in writing and will be administered after the first four weeks of the semester. If there is no improvement at the end of the next four weeks, steps towards debarment will be initiated.
- Should the Academic Board, on the recommendation of the Faculty Board, debar a student from writing the examination associated with a course, the designation recorded for such a candidate in that course will be DB (debarred).
- Failure of the Faculty to enforce this rule is not to be construed as a waiver for future breach of this regulation.

10.2. Coursework

- a. A student may request to submit coursework assignments, essays, etc. after the stipulated deadline date on the basis of appropriate justification (such as, in case of illness, a medical certificate complying with any applicable Examination Regulations). This request must be normally made within forty-eight (48) hours after the stipulated deadline date and must be addressed to the Director, who in consultation with the relevant Head of Department and Course Lecturer/Coordinator may allow the extension.
- b. In cases where the medical submitted for a missed coursework examination is approved by the Campus Health Service Unit, the candidate may be graded on the tests he/she has taken as if such tests constitute the full test requirement provided that the tests not taken constitute no more than 20% of the total mark for all the tests. If the tests not taken constitute more than 20% of the total mark for all the tests, the candidate shall be granted a substitute coursework examination at a date prescribed by the relevant Course Coordinator.

10.3. Courses Assessed 'In-Course Only'

- a. Results for those courses that are only assessed by in-course examinations will be recorded as pass or fail only, and will not be used in computing a student's GPA.
- b. A student who fails to attain the passing grade in any 'In-Course Only' assessed course may be required to repeat the course and assessments.
- c. It is a requirement that students attain a recorded attendance at lecture, tutorial and/or laboratory for each of these courses of not less than 75% for this performance criterion to be certified as satisfactory.
- d. In accordance with Faculty of Medical Sciences Regulations (General Information: Debarments, Repeats, Withdrawals):

“Where there is dissatisfaction with the performance of a student, the Director/Head of a Department may report the matter to the Dean and the Faculty Board which may recommend to the Academic Board (St. Augustine) that the student ... either repeat the course or be required to withdraw from the Faculty of Medical Sciences.”
- i. Unsatisfactory performance in “In-Course Only” assessed courses will be reported to the Dean and the Faculty Board, based on information supplied by the relevant Head of Department, if the student has a certified attendance record of 50% or lower, subject to the following:
 - Student attendance at lectures, labs and tutorials and performance in Coursework will be routinely checked by the lecturer/tutor at four-weekly intervals, counting from the beginning of the semester.

- A student will be allowed one warning. This must be in writing and will be administered after the first four weeks of the semester. If there is no improvement at the end of the next four weeks, steps towards formal recommendation of the student either repeating the course or being required to withdraw from the Faculty will be initiated.
- ii. Failure of the Faculty to enforce this rule is not to be construed as a waiver for future breach of this regulation.

10.4. Clinical Skills and Professional Development Courses

The clinical skills and professional development training of students from Years 1 – 3 is monitored by way of accomplishment of specific knowledge, aptitudes and skills. A very important assessment tool is the Clinical Competency Checklist.

If students fail to accomplish all competencies required in the respective years of the programme, (as validated by having all items on the checklist signed off by the authorised faculty), they cannot be awarded a passing grade for the relevant Clinical Skills and Professional Development course.

10.5. Year V Courses

- a. It is an essential requirement for eligibility for the Year 5 examinations that candidates satisfactorily complete all items on the Clinical Competency rubric for each course and have the document signed off by the course tutor/s.
- b. Students will be debarred from taking the Final Examination in any course if the relevant Competency Checklist is incomplete or not meeting the criteria for day one standards.
- c. Students who have failed and are repeating any Year V course will be required to complete a period of prescribed remedial clinical work prior to the repeat examination. The nature and duration of this work will be decided by the Course Coordinator(s), in conjunction with the Head of Department, Clinical Veterinary Sciences. Students who do not satisfactorily complete this remedial work will not be allowed to sit the repeat examination.

10.6. Scheme of Examinations

- a. The examination of a course shall be conducted by written papers, practicals and/or orals and/or spotters; coursework, OSCE and/or project(s).
- b. Written papers may include essays and multiple-choice questions. In-course examinations / coursework can comprise laboratory, field exercises, literature surveys, problem exercises, 'open-book' reports and presentations, portfolios, in-house tests or such other assignments.
- c. Viva voce examinations will not normally be part of the final course examination for courses delivered in Years 1 – 3 and non-clinical courses in Year 4, unless specifically stated in these Regulations.
- d. Standard setting may be applied to examination questions.
- e. The passing grade for each course is C/ 50% (quality point 2.0).
- f. Candidates are not allowed to re-sit an examination once they have already passed the examination.

Registration for any course constitutes registration for the associated examination. A student will therefore have failed the course if s/he does not attend the examination without having previously been allowed to withdraw from the course or without having tendered evidence of illness at the time of the examination, certified by a medical practitioner recognised by the University. In the latter case, the medical report must reach the Campus Health Service Unit (HSU) no later than seven days after the date of the relevant examination.

Medical certificates for absence from coursework exercises should be submitted to the Campus Health Service Unit (HSU) within seven (7) days of the coursework/Midterm examination date.

For end-of-semester/final examinations, the Medical certificate duly stamped by the attending Physician or Medical Agency should be submitted to the Health Services Unit for validation. The student will be advised subsequently about acceptance of the certificate.

- g. The Medical certificate duly stamped by the attending Physician or Medical Agency MUST be submitted to the Campus Health Services Unit (HSU) for validation. For end-of-semester/final examinations, the medical report must reach the HSU no later than seven (7) days after the date of the relevant examination.

Medical certificates for absence from coursework exercises should be submitted to the HSU within seven (7) days of the coursework/Midterm examination date.

The student will be advised subsequently about acceptance of the certificate.

- h. Certificates submitted are relevant only to the examination(s) missed and the particular dates therein.
- i. In cases where the medical submitted for a missed final examination is approved by the Campus Health Service Unit, the grade designation of AM (Absent Medical) will apply. The designation AM carries no penalty.
- j. **ANY STUDENT WHO WRITES AN EXAMINATION FOR WHICH HE/SHE IS NOT REGISTERED WILL NOT BE CREDITED FOR SUCH COURSE(S).**

10.7. Review of Examination Results: UWI Regulations 141-142

- 141 (i) A student who is dissatisfied with the results of his/her examination should report his/her dissatisfaction in writing to the Campus Registrar. Such a report must be made within two weeks of publication of results, and in the case of the Supplemental/Summer School or re-sit examinations within five days of the publication of results.
- (ii) The Campus Registrar shall forward the student's request to the Dean of the Faculty concerned.
- (iii) Only students who have failed a course may request to go through his/her script with the Examiner; (utilizing an approved electronic teleconferencing system if necessary);
- (iv) Students may request to have their scripts remarked.
- 142 (i) In carrying out the process of going through examination scripts with students who have failed courses, the examiner must disclose the marks/grades.
- (ii) The process at 142(i) should include failed answers in multiple choice examinations.

11. Award of Degree

- a. A Cumulative Grade Point Average based on all courses completed for which grades have been obtained (excluding those taken on a Pass/Fail basis), will be calculated and recorded on the student's transcript.
- b. A Grade Point Average based on grades obtained on ALL COURSES registered for, (excluding those taken on a Pass/Fail basis), whether passed or failed, will be used in the calculation for determination of the class of the degree.
- c. Distinction, Honours or a Pass degree will be awarded on the basis of the Grade Point Average (GPA) of all courses taken (passed and failed), excluding those taken on a Pass/Fail basis.
- d. To develop regulations for PAVE candidates. The candidates will do equivalent courses at the PAVE partner university and the credits obtained from these will be transferred to the final transcripts of the candidate.
- e. **Category of Degree**
- | <i>Category of Degree</i> | <i>GPA</i> |
|---------------------------|----------------|
| Distinction | 3.60 and above |
| Honours | 3.00 – 3.59 |
| Pass | 2.00 – 2.99 |

12. Leave of Absence and Voluntary Withdrawal

- a. A student who wishes to be absent from the Faculty for a semester or more may apply for Leave of Absence.
- b. Leave of Absence will not be granted for more than two consecutive semesters in the first instance. However, students may apply for an extension of Leave of Absence.
- c. Leave of Absence will not be granted for more than two consecutive years.
- d. Applications for Leave of Absence should normally be submitted no later than the end of the prescribed change in registration period in the relevant semester.
- e. A student who does not register for any course during a semester without having obtained Leave of Absence will be deemed to have withdrawn from the University and will have to re-apply for entry to the University if s/he so desires.
- f. A student who does not register for any course during a semester without having obtained Leave of Absence may, in addition to being deemed to have withdrawn from the University, also be liable for the cost of tuition of the semester in which the student fails to register or be unable to re-register online.
- g. A student who voluntarily withdraws from the University and then applies for re-admission within five (5) years shall be granted exemption and credit for all courses previously passed unless the School declares that the material covered in a course is no longer relevant. All grades previously obtained except those for courses, the contents of which are no longer relevant, shall be used in the determination of the GPA of such a student.

13. Time Limits for Completion and Enforced Withdrawals

- a. All students are required to complete the Programme as prescribed in the Schedule of Courses in not less than ten (10) semesters and within a maximum of 16 semesters (EXCEPT as provided under Regulation I (b)). Students who CANNOT complete their programmes of study within 16 semesters of registration would be declared as having failed the programme.
 - i. Students who do not complete the programme within the maximum period stated in Regulation (a) above will normally be required to withdraw from the Faculty at the end of the academic year in which the maximum time limit is reached.
 - ii. In the event that a student has exhausted the maximum period stated in Regulation (a), but still requires for the completion of the degree programme:
 1. passes in courses totaling no more than twelve (12) credits;
 2. and/or
 3. passes in Foundation courses only,
 4. approval may be sought from the Board for Undergraduate Studies for an extension of the period of study by one or two consecutive semesters.
 - iii. For the purposes of Regulation (a) any semester for which a student has obtained Leave of Absence from the Faculty shall not be counted.
- b. Students required to withdraw from the University for failing to complete the degree programme within the stipulated time may apply for re-entry into the Faculty after at least one year has elapsed since their withdrawal.
- c. A student who was required to withdraw for reasons of failure to progress may be re-admitted to the Faculty on the following conditions:
 - i. One year (i.e. a minimum of two consecutive semesters) has elapsed since the date of withdrawal.
 - ii. The Faculty is satisfied that the contributing circumstances for the withdrawal have altered substantially.
- d. A student who was required to withdraw and was re-admitted and then required to withdraw for a second time, will not normally be considered for re-admission again until a minimum period of five years has elapsed.

14. Assessment of Year V Courses

- a. The assessment format and distribution of marks for each course EXCEPT VETM 5010 will be as follows:
 - In-course assessment comprising rotation scores, written, oral, practical and/or spotter examinations – 50%.

- Final examination which will include practical, oral and spotter elements only – 50%.
- b. The assessment format and distribution of marks for course VETM 5010 will be as follows:
 - i. In-course assessment comprising written, oral and/ or practical examinations – 60%.
 - ii. Final examination will include practical and oral elements only – 40%.

DVM - COURSE LISTING

ALL DVM students must complete any two (2) of the following foundation courses: FOUN 1101, FOUN 1301, FOUN 1102, offered in both Semester 1 and 2.

YEAR 1

Course Code	Course Title	Semester	Credits	In Course	End of Semester	Pass/Fail For Credit	Credit
FOUN 1101	Caribbean Civilization		3				Y
FOUN 1301	Law, Governance, Economy and Society		3				Y
FOUN 1102	Academic Writing for Different Disciplines		3				Y
VETM 1501	Veterinary Gross Anatomy I	1	5	Y	Y	N	Y
VETM 1502	Veterinary Physiology I	1	3	Y	Y	N	Y
VETM 1503	Veterinary Biochemistry	1	4	Y	Y	N	Y
VETM 1504	Veterinary Clinical Skills & Professional Development IA	1	2	Y	N	Y	N
VETM 1506	Veterinary Physiology II	2	3	Y	Y	N	Y
PECH 1101	Communication Principles for Effective Health Care	2	3	Y	Y	N	Y
VETM 1507	Veterinary Histology & Embryology	2	5	Y	Y	N	Y
VETM 1505	Veterinary Clinical Skills and Professional Development IB	2	2	Y	N	Y	N
VETM 1508	Veterinary Gross Anatomy II	2	5	Y	Y	N	Y
VETM 1509	Farm Attachment	3	2	Y	N	Y	N
SPAN 1007	Spanish for Beginners I (Compulsory Elective)	Year Long	3				N

YEAR 2

Course Code	Course Title	Semester	Credits	In Course	End of Semester	Pass/Fail For Credit	Credit
VETM 2501	Animal Production I	1	5	Y	Y	N	Y
VETM 2502	Biostatistics	1	2	Y	Y	N	Y
VETM 2503	Veterinary Bacteriology	1	3	Y	Y	N	Y
VETM 2506	Veterinary Parasitology I	1	3	Y	Y	N	Y
VETM 2507	Veterinary Pharmacology and Therapeutics	1	4	Y	Y	N	Y
VETM 2504	Veterinary Clinical Skills and Professional Development IIA	1	2	Y	N	Y	N
VETM 2506	Veterinary Parasitology II	2	2	Y	Y	N	Y
VETM 2509	Animal Production II	2	3	Y	Y	N	Y
VETM 2510	Veterinary Virology	2	3	Y	Y	N	Y
VETM 2511	Veterinary Immunology	2	3	Y	Y	N	Y
VETM 2512	Veterinary Toxicology	2	2	Y	Y	N	Y
VETM 2210	Animal Nutrition	2	2	Y	Y	N	Y
VETM 2505	Veterinary Clinical Skills and Professional Development IIB	2	2	Y	N	Y	N
VETM 2513	Veterinary General Pathology	2	3	Y	Y	N	Y

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YEAR 3

Course Code	Course Title	Semester	Credits	In Course	End of Semester	Pass/Fail For Credit	
VETM 3005	Veterinary Systemic Pathology I	1	3	Y	Y	N	Y
VETM 3008	Veterinary Epidemiology	1	3	Y	Y	N	Y
VETM 3009	Veterinary Public Health/Zoonoses/Prev. Med.	1	3	Y	Y	N	Y
VETM 3501	Avian Diseases	1	3	Y	Y	N	Y
VETM 3502	Principles of Medicine	1	3	Y	Y	N	Y
VETM 3503	Professionalism, Ethics, State Medicine and Jurisprudence	1	3	Y	N	Y	N
VETM 3504	Veterinary Clinical Skills and Professional Development IIIA	1	2	Y	N	Y	N
VETM 3010	Veterinary Systemic Pathology II	2	3	Y	Y	N	Y
VETM 3506	Small Animal Medicine I	2	2	Y	Y	N	Y
VETM 3507	Clinical Veterinary Pharmacology	2	1	Y	N	Y	N
VETM 3508	Principles of Surgery	2	3	Y	Y	N	Y
VETM 3509	Veterinary Clinical Pathology	2	3	Y	Y	N	Y
VETM 3016	Exotic Animal Health & Management	2	3	Y	Y	N	Y
VETM 3505	Veterinary Clinical Skills and Professional Development III B	2	2	Y	N	Y	N
VETM 3510	Research Methodology in Veterinary Sciences	2	2	Y	N	Y	N
VETM 3511	Supervised Seeing Practice	3	5	Y	N	Y	N

YEAR 4

Course Code	Course Title	Semester	Credits	In Course	End of Semester	Pass/Fail For Credit	
VETM 4211	Large Animal Medicine I	1	4	Y	Y	N	Y
VETM 4003	Anaesthesiology	1	3	Y	Y	N	Y
VETM 4004	Theriogenology I	1	3	Y	Y	N	Y
VETM 4501	Small Animal Surgery I	1	4	Y	Y	N	Y
VETM 4502	Small Animal Medicine II	1	4	Y	Y	N	Y
VETM 4503	Research Project (Year Long)	Year long	3	Y	N	Y	N
VETM 4504	Introduction to Clinical Rotations	2	4	Y	Y	N	Y
VETM 4008	Theriogenology II	2	2	Y	Y	N	Y
VETM 4212	Large Animal Medicine II	2	2	Y	Y	N	Y
VETM 4505	Large Animal Surgery	2	5	Y	Y	N	Y
VETM 4506	Diagnostic Imaging	2	4	Y	Y	N	Y
VETM 4009	Veterinary Ophthalmology	2	2	Y	Y	N	Y
VETM 4507	Food Hygiene/Safety	2	2	Y	Y	N	Y

YEAR 5

Course Code	Course Title	Semester	Credits	In Course	End of Semester	Pass/Fail	For Credit
VETM 5501	Elective Clinical Rotation/Clerkship and Clinical Case Reviews	Year long	2	Y	N	N	Y
VETM 5003	Equine Medicine and Surgery and Theriogenology Clinical Clerkship	Year long	3	Y	Y	N	Y
VETM 5210	Food Animal Medicine and Surgery, and Theriogenology Clinical Clerkship	Year long	6	Y	Y	N	Y
VETM 5006	Public Health Clinical Clerkship	Year long	2	Y	Y	N	Y
VETM 5007	Small Animal Medicine III Clinical Clerkship	Year long	5	Y	Y	N	Y
VETM 5008	Small Animal Surgery II & Anaesthesiology Clinical Clerkship	Year long	5	Y	Y	N	Y
VETM 5009	Diagnostic Imaging Clinical clerkship	Year long	4	Y	Y	N	Y
VETM 5010	Pathology and Diagnostic Laboratory Medicine Clinical Clerkship	Year long	4	Y	Y	N	Y
VETM 5011	Avian and Exotic Medicine Clinical Clerkship	Year long	4	Y	Y	N	Y

Guidance for Candidates Applying to the DVM Programme with Disabilities, Health Problems and Allergies

The following guidance is provided to clarify some of the key issues around becoming a Veterinarian.

- In determining who to admit and who to graduate, the University of the West Indies School of Veterinary Medicine (UWI-SVM) must follow internationally accepted, prescribed professional standards, as well as our own academic standards and regulations.
- Academic merit is considered first and foremost and all applications, including those from disabled students, are considered on an individual basis.
- The UWI-SVM has accepted students who have disclosed a disability or health issue on application and we are keen to give students appropriate support. This is provided by the School, usually in liaison with the University's Student Life and Development Department (SLDD). Many disabled students and students with health conditions can achieve the required standards of knowledge and skills to enable them to practise as veterinary surgeons. Our main concern is how a student's impairment affects his/her ability to study and to practise as a veterinarian.
- The safety of patients, the public, colleagues and the student must always take priority.
- The UWI-SVM does not have the discretion to offer individual dispensation from parts of the course, as our DVM degree graduates currently have an automatic legal right to practise veterinary medicine in several countries across the globe.

Veterinary Schools are 'gatekeepers' for the veterinary profession. In order to graduate, students must have achieved all the 'Day One Competences' that are required for practise as a newly qualified veterinarian.

Day One Competences:

Students/graduates of the DVM programme must have adequate access to primary care cases and hands-on experiences with live animals and must address clinical competencies in the following areas:

Comprehensive patient diagnosis and demonstration of problem solving skills (e.g. appropriate use of clinical laboratory testing and record management)

1. Comprehensive treatment planning including patient referral when indicated
2. Anaesthesia and pain management, patient welfare
3. Basic surgery skills, experience, and case management
4. Basic medicine skills, experience, and case management
5. Emergency and intensive care case management
6. Health promotion, disease prevention, zoonosis and food safety
7. Client communications and ethical conduct
8. Strong appreciation for the role of research in furthering the practise of veterinary medicine.

Specific practical and professional competencies required as part of the DVM programme include being able to:

- cope with uncertainty and adapt to change – problem solving and flexibility.
- handle and restrain an animal (both large and small) safely and humanely.
- attend all species in an emergency and provide basic first aid (e.g. resuscitation, haemorrhage control, bandaging, and handling).
 - Emergency situations could be out in a farm, related to a road accident or within a large or small practice.
- perform laboratory tests and use radiographic and ultrasonic equipment.
- prescribe and dispense medicines correctly, accurately and responsibly.
- perform complete clinical examinations, euthanasia and post-mortems examinations.
- communicate effectively with sensitivity and professionalism to owners and the general public. undertake extended periods of working as part of a team, including nights. learn and develop skills whilst out in the field. undertake fine motor control tasks such as suturing, surgery, administering anaesthesia injections and taking biopsies.

The difference between training as a Veterinary Surgeon and working as a Veterinarian

Once qualified, it is possible for a Veterinarian to restrict their area of practice to particular species, or to work in a non-clinical role. However, as veterinary medicine is a comparative science, it is important for students to receive broad clinical training across all common domestic species and related veterinary disciplines.

This is why there can be no dispensation from parts of the course, as otherwise the standard of competence reached at the end would be severely reduced.

Work Experience

Any experience gained in a veterinary practise or out in the field before applying will give the applicant a good idea of what is in store from Veterinary Medicine.

HEALTH ISSUES/DISABILITIES

The University of the West Indies (St. Augustine Campus) is committed to promoting access to people with disabilities, while maintaining academic standards. Overall responsibility for the development, implementation and working of this policy lies with the Campus Administration and the Student Life and Development Department (SLDD).

The primary objectives of the SLDD are:

- to assure equal access to all aspects of the university experience for students with disabilities through reasonable accommodations;
- to assist in the co-ordination of appropriate services based on the student's individual needs;
- to interface with Faculties and Administration to promote a clearer understanding of the needs of disabled students.

DISCLOSURE AND CONFIDENTIALITY

All applicants are encouraged to disclose their disabilities so that appropriate support can be made available to them. All information and documentation regarding an applicant's or student's condition will be used exclusively for the purpose of planning and implementing appropriate support, in order that the disabled person may gain the maximum from their educational opportunity at the UWI. Information relating to an applicant's or student's support requirement will be shared only with University staff directly working in the planning or delivery of the person's support.

Information and documentation submitted or redirected to SLDD will be treated as confidential. Strict measures to protect its contents from unnecessary disclosure to other members of staff not directly involved with the support of the students will be observed at all times. This duty may only be overridden by health and safety circumstances related to the person or to others.

Information about the individual's condition or support provisions will not be disclosed to or discussed with any individual outside the University, including parents or guardians, without the written consent of the student. This also applies to members of staff not directly involved in the provision of support of the person.

Veterinary Medicine is, however, a practical subject and students must be able to handle and examine all animals safely and humanely, and to ensure the safety of themselves and involved personnel. Applicants who have health issues or a disability, which may have an impact on their ability to carry out these or any other practical procedures, are invited to discuss this in confidence with the SLDD before making a formal application.

GUIDANCE ON SPECIFIC DISABILITIES

The University of the West Indies School of Veterinary Medicine considers that the following disabilities may present severely enough, in certain circumstances, to negatively impact the student's ability to meet the requirements of the 'Day One competences' at the end of the DVM degree programme.

1. SENSORY IMPAIRMENTS

a. Impaired vision (Blindness/Low Vision)

The extent of impairment would need to be assessed against the requirements of the Day One competences. [A veterinarian may be able to practise with some limited visual impairments (e.g. colour blindness or monocular vision). Students, however, will be required to perform surgical procedures during the programme in order to meet the Day One Competences and a severe visual impairment would render the individual unable to practise as a veterinarian.]

b. Hearing impairments (Deafness/hearing impairment)

Individuals with a hearing impairment are not necessarily ruled out for admission to the veterinary degree, provided they have the appropriate coping strategies and make use of appropriate aids (e.g. cochlear implants and the use of amplified stethoscope). In such cases, the Entrance Committee will need access to medical and other background information to inform their decision.

c. Communication Disorders

Issues to be taken into account will include the individual's ability to communicate with others, as well as their ability to cope in a range of practise and clinical-based contexts so as not to endanger themselves, colleagues, clients and animals.

2. DYSLEXIA

Before an offer is made to a student with dyslexia, the SVM requires an assessment report from the Head of the Student Life and Development Department (SLDD) or an approved independent dyslexia specialist to determine the level and degree of dyslexia. (Whilst many students are able to cope with some degree of dyslexia, it can present particular difficulties for veterinary students who must be able to manage a heavy reading load to keep up with the academic standards of the course). Assessment reports that are more than two years old will not be accepted as the basis on which to make a decision as an individual's condition may change over time.

Students with dyslexia who are admitted to the DVM programme may be provided reasonable accommodations from the SLDD. This accommodation should not be such as to give the student an unfair advantage over others, or to prevent the assessment of the student's ability to cope with written material, which is an essential part of the profession. Scribes are only permitted for a temporary disability such as a broken arm. The veterinarian – often working alone – must be able to read and prepare written reports, handle complex data, and prepare and dispense accurate prescriptions. If a student's dyslexia is so severe that it prevents them demonstrating these skills without assistance from a third party, this could ultimately endanger the safety of patients.

3. MENTAL HEALTH (Emotional/Psychological disorder)

Although a history of mental illness would not necessarily preclude admission, it is recommended that such candidates be the subject of a risk assessment. This is particularly applicable when considering applicants with mental health problems such as serious depressive illness, or students who develop such problems during their time as undergraduates. It must be borne in mind that studying during the DVM programme and working in the veterinary profession are both stressful undertakings. In the context of the ready availability of drugs to a veterinarian, and in a profession with (globally) a higher than average suicide rate, a history of mental illness would be grounds for not admitting an applicant into the programme where they could be a danger to themselves.

4. PHYSICAL DISABILITIES

Students will only be admitted if they are physically able to carry out all the tasks normally performed by Veterinarians.

a. Absence or partial loss of a limb

On its own, loss or partial loss of a limb would not necessarily preclude an individual from consideration for admission. The effects of the individual's disability with reference to the Day One competences and, in particular, the individual's ability to handle and restrain animals safely, and to handle equipment, will need to be considered.

b. Wheelchair users

The School of Veterinary Medicine and the SLDD will engage in an interactive process with applicants who are permanently based in a wheelchair. The UWI-SVM reserves the right not to admit an applicant who upon completion of the process cannot, even with reasonable accommodations, demonstrate the full range of Day One competences; or whose condition would place patients, clients or colleagues at risk or would jeopardise his or her ability to complete the DVM programme in a reasonable period of time.

c. Asthma and allergies to animal dander and other allergens

In the interests of the individual's safety, self-disclosure of such conditions is important at the point of entry to the course. Applicants must note that the requirements of the Day One competences mean that they will not be able to avoid contact with certain species on the grounds of an allergy, or to request dispensation from parts of the programme. (Exposure to a wide range of species during the veterinary course is an inevitable and integral part of veterinary training. Generally, such conditions are controllable and students can cope well. In some severe cases, however, an allergy may prove to be uncontrollable and life threatening and thus could be grounds for non-admission).

d. Immuno-suppressive conditions

The Entrance Committee will seek medical advice on a case-by-case basis. (Applicants who are taking immuno-suppressants would be exposed to organisms that, while not normally pathogenic, might pose a risk to anyone who is immuno-suppressed).

This list is not exhaustive and may be revised from time to time.

REQUESTING ACCOMMODATION

Reasonable accommodations are adaptations to the learning environment that permit students with disabilities to be on an equal level at the University. (Those students who may have developed a disability subsequent to commencement of the programme are encouraged to visit the SLDD to register as soon as possible after a diagnosis). The SLDD will work with students to determine the appropriate accommodation.

Prior to receiving accommodation students requesting such must:

1. Contact SLDD within the first three weeks of the semester to receive forms A, B, and C;
2. Return all forms properly completed by a recognised professional within the first three weeks of school to the Head of SLDD who will arrange for the student to be interviewed. (Requests after the deadline may not be accommodated except in special circumstances to be determined by SLDD);
3. Ensure that all appropriate and correct (no older than two years) documentation from their qualified professional that identifies the disability and makes recommendations for accommodations, is recorded with SLDD (See 2). (Requests for accommodation should not be sent to the Examinations Section);
4. Submit to a re-evaluation of disability status at the beginning of each semester where applicable or at the time of requesting same or additional recommendation;
5. Work with staff of SLDD to design a contract that stipulates the types of accommodations to be received and to receive the appropriate information about various reasonable accommodations that best apply in a given situation.

Responsibilities: (School of Veterinary Medicine)

- i. The University of the West Indies does not discriminate against qualified individuals with physical or mental disabilities who apply for admission to the DVM degree programme or who are enrolled as veterinary students. Otherwise qualified individuals shall not be excluded from admission or participation in the School of Veterinary Medicine's educational programmes, services and activities solely by reason of their disability or medical condition.
- ii. The School of Veterinary Medicine provides reasonable accommodation in its academic programmes to qualified individuals with disabilities. Consistent with legal standards and University policy, a reasonable accommodation is one that does not require substantial modification of essential programme requirements or lower academic standards. Learning disabilities are included under this policy.
- iii. All applicants are held to the same academic and technical standards of admission and training, with reasonable accommodations as needed for students with disabilities. Although the School of Veterinary Medicine and the Student Life and Development Department (SLDD) will engage in an interactive process with applicants with disabilities, the School will consider whether, with reasonable accommodations, a disabled applicant will be able to

cope with the demanding academic, practical and clinical components of the veterinary programme, and also whether he or she would be able to meet the requirements of the programme's "Day One competences" at the end of the programme. The SVM reserves the right not to admit any applicant, who upon completion of the interactive process, cannot meet these technical "Day One competences" standards with reasonable accommodations.

- iv. The SVM takes its duty of care seriously and will not promote false expectations for students whose impairment impacts on their ability to demonstrate the key skills required by a veterinarian. Work as a vet is very demanding, emotionally and physically.
 - It would be unwise for individuals with serious health problems (physical or mental, including a history of addiction) to put themselves into a situation in which this would be a risk to themselves or others, including the animals they are working with.
- v. Should a student have or develop a condition that would place patients, clients or colleagues at risk or that would jeopardise his or her ability to complete veterinary degree programme in a reasonable period of time, the student may be denied admission or may be transferred to another degree programme.
- vi. Should a student have or develop a disability that poses a significant risk to the health and safety of patients, self, or colleagues that cannot be eliminated with a reasonable accommodation or that would jeopardise his or her ability to complete the veterinary degree programme with a reasonable accommodation, the candidate may be denied admission or may be transferred to another degree programme.

Responsibilities: (Students with Disabilities)

- i. It is the responsibility of a student with a disability, or a student who develops a disability, and who wants an accommodation to notify the Student Life and Development Department (SLDD) and provide adequate documentation of the general nature and extent of the disability. The SLDD will in turn determine what accommodations are necessary and will submit an application to the Chairman of the Campus Committee (Examinations) requesting approval for such accommodations as may be necessary to allow the student to access University educational opportunities; and recommend those accommodations to the School of Veterinary Medicine.
- ii. It is the responsibility of the student to present to their lecturers completed paperwork from the SLDD documenting suggested accommodations with adequate time for those accommodations to be implemented.
- iii. A student who has or develops any chronic disease or condition that will impair their ability to meet the School's technical standards will be expected to seek and continue in the care of a qualified health care provider.
- iv. Any disabled applicant is welcome to contact the Student Life and Development Department (SLDD) prior to application (<http://sta.uwi.edu/sldd/contactus.asp>).

It is strongly recommended that applicants, in their own interests, disclose any disabilities or long-term illnesses when they apply, as without disclosure, the Entrance Committee will be unable to properly consider each applicant's individual situation and how best to provide appropriate support.

Additional Information

The UWI (St Augustine Campus) Student Disability Policy gives some guidance on the University's Policy Commitments to the student population. <http://sta.uwi.edu/sldd/documents/StudentDisabilityPolicy.doc>

SCHOOL OF PHARMACY

Bachelor of Sciences in Pharmacy

1. Introduction

Curriculum Goals

(a) General

To provide sound education and training, both theoretical and practical, in the basic health sciences, the Pharmaceutical Sciences, Clinical Pharmacy and Pharmacy Practice so that the graduates not only have current knowledge of their subject, but also are disciplined to become lifelong learners to the benefit of patients and the future development of Pharmacy.

(b) Outcome expectations and professional competencies

Professional competencies that should be achieved through the curriculum in pharmacy include the ability to:

- a) Evaluate drug orders or prescriptions, compound, package and dispense drugs in appropriate dosage forms;
- b) Manage systems for storage, preparation, and dispensing of medicines, and supervise technical personnel who may be involved in such processes;
- c) Manage and administer a pharmacy and pharmacy practice;
- d) Apply computer skills and technological advancements to practice;
- e) Communicate and collaborate with health care professionals and patients regarding rational drug therapy, wellness and health promotion;
- f) Design, implement, monitor, evaluate, and modify or recommend modifications in drug therapy in consultation with the physician to ensure effective, safe and economical patient care;
- g) Identify, assess and solve medication-related problems, and provide a clinical judgment as to the continuing effectiveness of individualised therapeutic plans and intended therapeutic outcomes;
- h) Evaluate patients and order medications and/ or laboratory tests in accordance with established standards or practice;
- i) Evaluate patient problems and triage patients for other health professionals as appropriate;
- j) Monitor and counsel patients regarding the purposes, uses and effects of their medications and related therapy;
- k) Recommend appropriate non-drug therapies (including lifestyle modifications) in the provision of patient care;
- l) Recommend, counsel and monitor patient use of non-prescription drugs;
- m) Retrieve, evaluate and manage professional information and literature;
- n) Use clinical data to optimise therapeutic drug regimens;
- o) Evaluate and document interventions and pharmaceutical care outcomes;
- p) Make decisions as caregiver, communicator, leader, manager, life-long learner, teacher, researcher, and ethicist.

Programme Description

Core Areas of the Curriculum

The curriculum in pharmacy provides the student with a core of knowledge, skills, abilities, attitudes and values that, in composite, relate to the professional competencies and outcome expectations, and it includes the following areas:

- Basic health sciences, including anatomy, physiology, general pathology, pathophysiology, microbiology, immunology, biochemistry and biostatistics.
- Pharmaceutical sciences, including pharmaceutical chemistry, medicinal chemistry, pharmacology, toxicology and pharmaceutics, which encompasses physical and chemical principles of dosage forms and drug delivery systems, biopharmaceutics and pharmacokinetics;

- Behavioural, social and administrative pharmacy sciences, including pharmacoeconomics, practice management, communications applicable to pharmacy, the history of pharmacy, ethical foundations to practice, social and behavioural applications and laws pertaining to practice;
- Pharmacy practice, including prescription processing, compounding and preparation of dosage forms, drug distribution and drug administration, epidemiology, paediatrics, geriatrics, gerontology, nutrition, health promotion and disease prevention, physical assessment, clinical pharmacokinetics, patient evaluation and ordering medications, pharmacotherapeutics, disease-state management, outcomes documentation, self-care / non-prescription drugs, and drug information and literature evaluation;
- Professional experience, including a variety of practice experiences acquired throughout the curriculum as a continuum, progressing from the Introductory Pharmacy Practice experiences to the Advanced Pharmacy Practice experiences, which include outreach clinical clerkship at Institutional and Community Sites.

2. Regulations

2.1.1. Entry Requirements (for full-time students)

- 2.1.1 Passes in at least five (5) subjects at CSEC (CXC) General Proficiency (Grade I or II pre-1998 and Grades I-III from 1998) or GCE O-Level or BGCSE (Grade A-C) or approved equivalents, which must include English Language, Mathematics, Chemistry, Biology and Physics.
- 2.1.2 Three (3) CAPE or GCE A-Level equivalent passes with Grade I or II in Chemistry, plus two others from Biology, Zoology, Physics, or Mathematics.
- 2.1.3 Passes in the above subjects taken in preliminary and/ or introductory examinations in the Faculty of Science and Technology, UWI or equivalent examinations in institutions recognised by the UWI.

Mixed Mode Delivery

- 2.1.4 Registered Pharmacists holding a diploma/ certificate/ associate degree in Pharmacy may be eligible to join the degree programme and will follow a part-time programme of studies.

2.2 Course of Study

The duration for the programme (full/ part-time) is not less than eight (8) semesters.

2.3 Exemptions

- 2.3.1 A student who holds a diploma/ certificate/ associate degree in pharmacy and passed an examination from this or other recognised university in a course equivalent to the part or whole of a course in the pharmacy degree courses may apply through the Director of the School for exemptions. The Director of the School shall examine the syllabus, nature and duration of, and student's grading in the examination in that course, the time that has elapsed since it had been completed, and in particular whether such a course is equivalent in whole or in part to that offered in The University of the West Indies.

The Director of the School, through the Dean, shall make one of the following recommendations to the Faculty Board, indicating reasons for such recommendations:

- a) That the student be exempted from both the course and the examination
 - b) That the student be exempted from a part or the whole of the course, but be required to take a part of or the full examination.
 - c) That the application be rejected.
- 2.3.2 Exemptions shall not be granted automatically to students who have been asked to withdraw from and/or have been re-admitted to the Faculty.

2.4 Debarments, Repeats, Withdrawals

- 2.4.1 Where there is dissatisfaction with the work of a student, the Director of the School may report the matter to the Dean and the Faculty Board, which may recommend to the Academic Board (St. Augustine) that the student be debarred from the examination and either repeat the course or be required to withdraw from the Faculty of Medical Sciences.

- 2.4.2 Students required to withdraw from the University for failing to complete the degree programme within the stipulated time or for poor performance as provided for in the Faculty Regulations may be re-admitted to the Faculty after at least one year has elapsed since their withdrawal.
- 2.4.3 Any behaviour that is in violation of any rules or regulations of the School of Pharmacy, Faculty of Medical Sciences, can lead to the dismissal of the student from the School.
- 2.5 Foundation Courses**
- 2.5.1 All Year 1 students will be required to complete a minimum of nine (9) credits of Foundation courses - PECH 1001, PECH1101 and PECH 1102 offered in Semesters 1 and 2.
- 2.5.2 All students will be required to complete a module on Computer Operations and Information Management in order to fully utilize the information services and learning resource materials at the Medical Sciences Library.
- 2.6 Attendance**
- 2.6.1 ATTENDANCE IN EXCESS OF 75% IS MANDATORY IN ALL COURSES. Students are required to inform the Office of the Director, School of Pharmacy within one week of any absence from any part of the course. Late excuses will not be accepted.
- 2.7 Examinations**
- 2.7.1 A student shall not be approved by the Examiners for any one part or section of an examination unless she/he has attended all of the required coursework tests and written, practical and oral examinations in that part.
- 2.7.2 **ANY STUDENT WHO WRITES AN EXAMINATION FOR WHICH HE/SHE IS NOT REGISTERED WILL NOT BE CREDITED FOR THE COURSE.**
- 2.7.3 Examinations may consist of written papers, which may include essays, multiple choice, practical and/or orals.
- 2.7.4 Examinations will be held at the end of each course completed during a semester or academic year.
- 2.7.5 The continuous assessment for all courses from Years 1-4 except Pharmacy Practice courses (PHAR 4110, PHAR 4203 & PHAR 4204), Pharmacy Seminars (PHAR 4103) will carry a value of 40% and the final examination will carry a value of 60%
- 2.7.6 The continuous assessment for Pharmacy Practice courses (PHAR 4110, PHAR 4203 and PHAR 4204) will carry a value of 50% and the Objective Structured Practical Examination (OSPE) 50%.
- 2.7.7 The assessment for Pharmacy Seminars (PHAR 4103) will consist of 100% coursework.
- 2.7.8 The continuous assessment for Research Project (PHAR 4104) will consist of 100% coursework
- 2.7.9 Coursework assessment marks will be used for examinations in one academic year only. For students repeating courses, new coursework marks must be generated.
- 2.7.10 The requirement for a pass in each course shall be 50%.
- 2.7.11 A student who fails the examination in the first attempt will be required to re-sit the failed examination at the next available sitting. No student will be allowed to advance if she/ he has failed two or more courses.
- 2.7.12 No student will be eligible to proceed to the final year unless she/he has passed all the previous courses and satisfied the GPA requirements.
- 2.8 Progress Through the Programme**
- 2.8.1 A semester grade point average (GPA) based on grades earned on all approved courses for which the student is registered in a semester, will be used as the basis for the determination of his/her academic standing.

2.8.2 A student whose GPA for a given semester is less than 2.00 shall be deemed to be performing unsatisfactorily and shall be placed on Warning.

2.8.3 A student on Warning shall be counselled by the Dean or a designated School advisor.

NOTE: A Dean's Hold will be put on the record of students who are on Warning. Such a student will have to seek counselling by the relevant representative of the School before the Dean's Hold can be removed. This MUST be done within the prescribed registration period at the start of the Semester.

2.8.4 **A STUDENT ON WARNING WHOSE GPA FOR THE SUCCEEDING SEMESTER IS LESS THAN 2.00, WILL BE REQUIRED TO WITHDRAW.**

2.8.5 A student who was Required to Withdraw from the Faculty MUST APPLY for re-entry to the Campus Registrar.

2.8.6 If a student has been readmitted to the Faculty all grades previously obtained, (except those for courses that the content is no longer relevant), shall continue to apply for the purpose of determining the student's GPA.

2.9 Grading Scheme

2.9.1 The grading scheme for the BSc Pharmacy programme effective 2016/2017 shall be as follows:

GRADE	% RANGE	QUALITY POINTS
A+	90-100	4.30
A	80-89	4.00
A-	75-79	3.70
B+	70-74	3.30
B	65-69	3.00
B-	60-64	2.70
C+	55-59	2.30
C	50-54	2.00
F1	40-49	1.70
F2	30-39	1.30
F3	0-29	0.00

Note: For returning/continuing students, the new F1, F2, F3 bands will be applied effective 2016/2017. This change will not be applied retroactively.

2.10 Award of Degree

2.10.1 A student is eligible for the award of a BSc Pharmacy Degree on completion of 123 credits.

The classes of degree will be awarded as follows:

GPA	CLASS OF DEGREE
3.6 and above	First Class Honours
3.0 - 3.59	Upper Second Class Honours
2.50 - 2.99	Lower Second Class Honours
2.00 – 2.49	Pass

BSc Pharmacy - COURSE LISTING

YEAR 1

SEMESTER I

Course Code	Course Title	Credits
PHAR 1201	Pharmacy Practice I (YEAR LONG) (Orientation to Profession of Pharmacy, Introduction to Dosage Forms)	3
PHAR 1202	Pharmaceutical Chemistry (YEAR LONG)	3
PHAR 1204	Integrated Basic Health Sciences I (Anatomy and Physiology)	4
PHAR 1205	Integrated Basic Health Sciences II (Introductory Biochemistry)	3
PECH 1001	The Health Professional and Society	3
SPAN 1007	Spanish for Beginners I (Compulsory Elective) (YEAR LONG)	3

SEMESTER II

Course Code	Course Title	Credits
PHAR 1201	Pharmacy Practice I (Pharmacy Calculations)(YEAR LONG)	2
PHAR 1202	Pharmaceutical Chemistry (YEAR LONG)	3
PHAR 1206	Integrated Basic Health Sciences III (Anatomy & Physiology II)	4
PHAR 1207	Integrated Basic Health Sciences IV (Community Health)	1
PECH 1101	Communication Principles for Effective Health Care	3
PECH 1102	PECH Practicum	3

YEAR 2

SEMESTER I

Course Code	Course Title	Credits
PHAR 2105	Microbiology, Immunology and General Pathology	3
PHAR 2201	Pharmacy Practice II (Compounding Lab) (YEAR LONG)	2
PHAR 2202	Medicinal Chemistry	3
PHAR 2212	Pharmaceutics I (Dosage Form Design)	4
PHAR 2209	Pharmacology (YEAR LONG)	3

SEMESTER II

Course Code	Course Title	Credits
PHAR 2106	Pharmaceutical Analysis	3
PHAR 2201	Pharmacy Practice II Laboratory (IV Admixture) (YEAR LONG)	2
PHAR 2213	Pharmaceutics II (Biopharmaceutics)	4
PHAR 2202	Medicinal Chemistry	3
PHAR 2209	Pharmacology (YEAR LONG)	3

YEAR 3

SEMESTER I

Course Code	Course Title	Credits
PHAR 3104	Pharmacy Law & Ethics	2
PHAR 3105	Biostatistics & Research Methodology	3
PHAR 3106	Complementary/ Alternative Medicine, Non-Prescription Drugs	3
PHAR 3205	Applied Therapeutics I	6
PHAR 3203	Pharmacokinetics (Basic & Clinical) (YEAR LONG)	3

SEMESTER II

Course Code	Course Title	Credits
PHAR 3201	Pharmacy Practice III (Prescription dispensing; Site Visits; Drug Information / Literature Evaluation)	5
PHAR 3206	Applied Therapeutics II	6
PHAR 3203	Pharmacokinetics (Basic & Clinical) (YEAR LONG)	3

YEAR 4

SEMESTER I

Course Code	Course Title	Credits
PHAR 4102	Pharmacy Administration	4
PHAR 4103	Pharmacy Seminars	2
PHAR 4109	Patient Care Skills	2
PHAR 4110	Introductory Pharmacy Practice Experience	6

ELECTIVES

(any one)

Course Code	Course Title	Credits
PHAR 4105	Community Pharmacy Practice Management	2
PHAR 4106	Institutional Pharmacy Practice Management	2
PHAR 4107	Clinical Toxicology	2
PHAR 4108	Pharmacoeconomics	2

SEMESTER II

Course Code	Course Title	Credits
PHAR 4104	Research Project	2
PHAR 4203	Clinical Pharmacy Experiential Clerkship I (Inpatient medicine)	6
PHAR 4204	Clinical Pharmacy Experiential Clerkship II (Ambulatory medicine)	6

3. Curriculum for Non-Degree Pharmacists to Upgrade to BSc Pharmacy Mixed-Mode Programme

This is a part-time programme, which builds on the student's knowledge of the pharmacy profession as would have been gained by prior training and work experience. The programme will extend over a minimum of eight (8) semesters or a maximum of twelve (12) semesters. A total of ninety-four (94) credits will be required for the award of a BSc Pharmacy degree.

COURSE LISTING

MODULE 1

SEMESTER I

Course Code	Course Title	Credits
PHAR 1401	Integrated Basic Health Sciences (Anatomy, Physiology, Biochemistry, Community Health)	6
PHAR 2401	Microbiology, Immunology and General Pathology	3
PHAR 2403	Pharmacology I	3
PECH 1001	The Health Profession and Society	3

SEMESTER II

Course Code	Course Title	Credits
PHAR 1402	Integrated Basic Health Sciences II (Anatomy, Physiology, Biochemistry, Community Health)	6
PHAR 2402	Medicinal Chemistry I	3
PECH 1101	Communication Principles for effective Health Care	3

SEMESTER III

Course Code	Course Title	Credits
PHAR 2404	Medicinal Chemistry II	3
PHAR 2405	Pharmacology II	3
PECH 1102	PEC Practicum	3

MODULE 2

SEMESTER I

Course Code	Course Title	Credits
PHAR 2407	Complementary / Alternative Medicine	3
PHAR 3401	Applied Therapeutics I	6
PHAR 3406	Pharmacy Practice II (Drug Information / Literature Evaluation)	2

SEMESTER II

Course Code	Course Title	Credits
PHAR 2408	Biopharmaceutics	4
PHAR 3402	Pharmacokinetics I (Basic)	3
PHAR 3403	Biostatistics and Research Methodology	3
PHAR 4401	Pharmacy Seminars	2

SEMESTER III

Course Code	Course Title	Credits
PHAR 2409	Pharmacy Practice I: Sterile Products Lab/ TPN	2
PHAR 3404	Applied Therapeutics II	6
PHAR 3405	Pharmacokinetics II (Clinical)	3

MODULE 3

SEMESTER I

Course Code	Course Title	Credits
PHAR 4402	Pharmacy Administration	4
PHAR 4407	Pharmacy Practice III (Clinical Skills, Patient Counselling, Introduction to Clerkship)	4

ELECTIVES (any two)

Course Code	Course Title	Credits
PHAR 4403	Research Project	2
PHAR 4404	Institutional Pharmacy Practice Management	2
PHAR 4405	Clinical Toxicology	2
PHAR 4406	Pharmacoeconomics	2

SEMESTER II

Course Code	Course Title	Credits
PHAR 4408	Clerkship I (General Inpatient Medicine)	4
PHAR 4409	Clerkship II (Ambulatory Care)	4
PHAR 4410	Clerkship III (Specialty Medicine)	4

***Taught** electives will be offered only if there are at least ten students registered for it, with the exception of PHAR 4403 (Research Project) may be offered if one or more students are interested.

4. TEACHING, LEARNING AND ASSESSMENT STRATEGIES

The hybrid system of teaching and learning instituted in the Faculty of Medical Sciences problem-based learning (PBL) and requires students to adopt a philosophy of self-directed study: students are self-motivated to acquire their own learning, and it facilitates the students' achievement of the learning outcomes. In addition to PBL, learning settings will also include lectures, laboratories, clerkships for pharmacy practice, research projects, seminars, case-studies, poster presentations, numerical and non-numerical problem-solving and computer-aided learning packages.

Knowledge and understanding:

The strategy is to delineate a framework of knowledge and understanding of materials appropriate to the aim of the course. This is achieved through lectures, assigned reading of textbooks and reviews of journal articles, computer-aided learning materials, and practical laboratory exercises.

Assessment will be by written examinations incorporating objective questions and structured essay questions, reports of literature surveys and other coursework. Lectures are used throughout all levels. In later stages of the programme, there will be increased emphasis on personal information retrieval and use of available electronic information.

Skills:

Communication and presentation skills:

The strategy is to provide the student with opportunities to develop written and oral communication skills and general presentation skills. This is achieved via written laboratory reports, essays, seminars, case study presentations and video recorded role-playing. An oral defense will also be included. Communication skills are developed at the early stages of the curriculum and applied progressively to more complex situations in later stages, including basic counselling skills and lengthy and structured written work.

Numeric skills:

Numeric skills are developed and reinforced from the first year through tutorials, worked examples of calculations, statistical exercises, numerical treatment of data derived from laboratory exercises and simulated data. Assessment will incorporate numerical problem solving.

IT skills:

The strategy is to develop the student's IT skills from year 1 by means of introductory lectures and incorporation of computer exercises. Assessment is by coursework activities including use of statistical packages, presentation of projects and other reports. Familiarity with computer-assisted learning materials is necessary at early stages of the course, and more sophisticated information retrieval and management are introduced at later stages.

Teamwork and interpersonal skills:

The PBL system followed from Year 1 onwards provides opportunity to develop interpersonal and group skills. In addition, case study presentations and practical laboratory work in groups will reinforce these skills.

Higher order cognitive skills:

Application of theory is an intrinsic aspect at all stages and is reflected in laboratory exercises and non-laboratory based coursework activities and research projects. These are assessed by objective, short answer and essay type questions. The skills are developed gradually through simple systems in early stages to more complex situations in optimisation methods, case studies and the planning of pharmaceutical care.

Synthesis and evaluation skills are developed at later stages subsequent to the acquisition of basic and specialized knowledge. Problem-solving exercises are included in course activities and are assessed by mathematical, statistical and non-numerical questions and also by evaluation of research projects, case presentations and laboratory reports.

Subject-specific skills:

The curriculum develops a range of practical laboratory-based skills related to physical, chemical and biological measurements. It also develops a range of professional skills related to pharmacy practice areas.

Students must be able to evaluate patient data, scientific literature and pharmaceutical products in order to provide safe and effective products and to optimise drug utilization for therapeutic and diagnostic purposes. Students should be responsible for basic prescription compounding functions, be able to safely prepare and handle parenteral products and demonstrate understanding of considerations necessary to assure pharmaceutical product quality; monitor the safety and efficacy of therapeutic plans; prevent or resolve medication-related problems; respond to information requests; collaborate with physicians, other health care professionals and patients to formulate a pharmaceutical care plan; determine an appropriate drug delivery system for the patient; determine medication doses and dosage schedules; implement a pharmaceutical care plan; and provide counselling related to proper use of medications and devices.

UWI SCHOOL OF NURSING (UWISON)

Bachelor of Science in Nursing

1. Introduction

The goals of the BSc Nursing (pre and post-registration) undergraduate programmes are to:

1. Prepare undergraduates to assume responsibilities as professional, competent nurses at basic level in providing promotive, preventive, curative and rehabilitative services.
2. Prepare nurses who can make evidence informed decisions in nursing situations, protect the rights of, and facilitate individuals and groups in pursuit of health at all levels of care.
3. Prepare nurses to provide services using effective critical thinking, interpersonal relationships, caring with accountability and professionalism.
4. Engage basic level nurses in research generation and its utilization in nursing practice.

Outcome Expectations and Professional Competencies

At the end of the programmes students will be able to:

Knowledge Level

1. Describe the structure and function of the human body so as to permit him/her to appreciate aberrations/ deviations from normal and their consequences.
2. Apply knowledge from physical, biological and behavioural sciences, medicine, including alternative systems and nursing in providing nursing care to individuals, families and communities, along the health/illness continuum.
3. Describe the theoretical foundations of nursing as a profession.
4. Evaluate the importance of the epidemiological context in executing the role of the Nurse.
5. Demonstrate understanding of the principles of the nursing process and its application in managing patients.
6. Explains the pharmacological principles underling the administration of medications.
7. Identify the trends and appropriate use of technology in the management of patients.
8. Demonstrate knowledge and application of evidence-based practice to improve client outcomes.
9. Demonstrate an understanding of the importance of communication, collaboration and cooperation in multi-disciplinary teams
10. Explain the leadership/management role of a nurse in the health care system.

Skill/Competence Level

1. Apply the principles of the basic functions of the human body in designing care for patients.
2. Conduct education sessions for patients/families in clinical and other settings.
3. Make appropriate decisions based on a critical evaluation of the circumstances/conditions in all health-related situations.
4. Communicate effectively with individual, family, community and members of the interdisciplinary health care team.
5. Demonstrate leadership and managerial skills in clinical/community health settings.
6. Conduct research studies in various health care settings and utilize research findings to inform policy and improve the quality of the health care.
7. Administer prescribed medications using established standards and document necessary information.
8. Provide first aid and or cardiopulmonary resuscitation in emergency situations independently and interdependently.
9. Plan care to assist patients with the maintenance of wellness or support recovery using knowledge of pathophysiology and the nursing process.
10. Work effectively as member of the health care team independently, dependently and interdependently
11. Utilize the Primary Health Care approach in the management of individuals along the health/illness continuum.
12. Apply principles of epidemiology in analysing the patterns of diseases.
13. Select and utilize available technological resources in the management of patients.
14. Apply the theoretical principles of nursing in practice.

Professional Competence/ Attitude/ Personal Characteristics/ Affect

1. Appreciate the role of cultural, social, economic, psychological and environmental factors in the causation and control of diseases.
2. Demonstrate adequate management and supervisory skills in healthcare setting.
3. Create and promote an environment conducive to effective interpersonal relationships and teamwork.
4. Consistently display ethical and professional behaviors in practice.
5. Demonstrates commitment to working as an efficient and effective team member.
6. Assume responsibility for lifelong learning and the advancement of the nursing profession.
7. Value the importance of evidence to inform nursing practice.
8. Value the importance of technology in a changing nursing environment.
9. Respect and value nursing as a profession and adhere to the professional code of conduct.

2. Entry Requirements

2.1 BSc Nursing (Pre-Registration) Programme

- i. Passes in at least five (5) subjects at CXC (CSEC) General Proficiency (Grades I or II pre-1998 and I-III from 1998) or GCE O-Level or BGCSE (Grades A-C) or approved equivalents, which must include English Language, Mathematics AND at least one (1) Science subject (Physics, Chemistry, Biology, Human and Social Biology, Integrated Science).
- ii. Successful candidates are required to obtain permits as student nurses from the Nursing Council of Trinidad and Tobago.
 - * The Nursing Council of Trinidad and Tobago requires that candidates obtain passes at CXC, Grades I or II, (III accepted only from June 1998) or GCE, Grades A, B, or C. General proficiency English Language is compulsory and a certificate showing evidence of training in Mathematics or Principles of Accounts at secondary level for a minimum of three (3) years. The Council requires that candidates for registration must be 17 years and not more than 45 years of age.
- iii. Applicants are also required to:
 - Be at least 17 years and not more than 45 years at the time of admission to the programme;
 - Provide two (2) letters of recommendation – academic/employment and character (sent directly by the referees to the Office of Admissions, UWI, St. Augustine);
 - Provide transcripts of secondary or tertiary level education (sent directly by the institution to the Office of Admissions, UWI, St. Augustine).

2.2 BSc Nursing (Post-Registration) Programme

- i. Applicants for admission to this programme of study will be required to satisfy the minimum standards for entry to the BSc Nursing degree programme, as set forth by the University Regulations governing matriculation as follows:
 - Passes in at least five (5) CSEC (CXC) General Proficiency or GCE O-Level/BFCSE or approved equivalent;
OR
- ii. Special Requirements:
 - Completion of the basic or general qualification in Nursing, such as, a Certificate, Diploma or Associate Degree with minimum passing grade of B or its approved equivalent.
 - Must be a registered nurse.
 - A minimum of three (3) years post-registration experience as a practising nurse.
 - Registered Nurses holding a Diploma, Certificate or Associate Degree in Nursing may be eligible to join the post-registration programme.
 - Candidates with additional post-basic qualifications in Nursing from programmes offered by The UWI or other recognised tertiary institutions may be considered for admission on a preferential basis, but must have obtained a minimum B grade in major course components of their post-basic training.
 - Provisional acceptance may be offered in the case of other entry requirements subject to the approval of an Advisory Committee.
 - Entry qualifications of applicants, when assessed by the admissions team, must be equivalent to a minimum of (55) credit points.

3. Programme Description

3.1 BSc Nursing (Pre-Registration) Programme

- i. The BSc Nursing (Pre-Registration) curriculum is designed to meet the mandatory requirements of the University of the West Indies and the Nursing Council of Trinidad and Tobago.
- ii. The programme of study is offered on a full-time basis. The full-time programme requires a minimum of four (4) academic years/twelve (12) semesters and a maximum of eight (8) academic years.
- iii. The programme comprises 133 credits, distributed as follows:
 - University required courses 9 credits (7%)
 - Support courses 40 credits (30%)
 - Professional courses 81 credits (61%)
 - Elective 3 credits (2%)
- iv. The courses cover both theory and integrated clinical practice.
- v. The programme consists of the following components:
 - Foundation courses
 - Computer Literacy
 - Research
 - Education
 - Management
 - Clinical Nursing
 - Basic Sciences

3.2 BSc Nursing (Post-Registration) Programme

- i. The BSc Nursing (Post-Registration) curriculum is designed to facilitate articulation of students from Certificate and Diploma programmes which have been in existence.
- ii. The programme of study is offered on a full time and part time basis. The duration for the full-time programme is not less than two (2) years or (6) semesters and that for the part-time programme not less than three (3) years or nine (9) semesters.
- iii. The programme comprises 110 credits (students having entered the programme with a minimum of 30 credits of basic RN qualifications).
- iv. Along with the University required courses, the programme comprises a core curriculum in four (4) study areas: Nursing Education, Oncology Nursing, School Nursing and Nursing Administration.

4. Teaching Methods

The hybrid system of teaching and learning instituted in the Faculty emphasises Problem Based Learning (PBL) and requires students to adopt a philosophy of self-directed study. In addition to PBL, learning settings also include lectures, science and skills laboratories, practicum, outreach, research projects, case methods, case presentations, portfolio maintenance, and seminars.

Where it is expedient and cost effective, nurses can share classroom sessions on common courses with students of other Schools of the Faculty of Medical Sciences or within the wider University Community. In addition, students will be required to undergo close supervision by their tutors and preceptors in different health care settings. The Code of Ethics of Nurses in general and the stipulations of the various Nursing Councils and Associations in the Caribbean will be stressed throughout the training.

5. Clinical Practicums

1. BSc Nursing (Pre-Registration) Programme Practicum

The Nursing Practicums of the BSc Nursing (Pre-Registration) Programme occurs incrementally at the end of each semester as well as during the semester once students have covered the theoretical content associated with the course of study.

Students who receive an F1 or F2 grade in the Clinical Practicum examination(s) during Semester 1 or Semester 2 will be eligible for a RE-SIT examination during Semester 3 or before August of the same year. However, if they are unsuccessful at the second attempt of the practical examination, they will not be eligible to continue to the next academic year. In such circumstances, they will be required to take leave of absence for the respective semester then register and successfully complete the practicum examination in the following year prior to continuing their studies.

Students who receive a F3 grade in their Clinical Practicum examination will be required to repeat the entire course at the next offering.

2. BSc Nursing (Post-Registration) Programme Practicum

The Nursing Practicums of the BSc Nursing (post-registration) programme are scheduled in the last semester of the nursing curriculum. The rotation is designed to allow the students to develop new skills in Nursing Practice and improve on previously acquired ones by working alongside experienced practitioners of all levels of health care. It incorporates the team approach of nursing practice, faculty members and health care practitioners in the community, schools, hospitals, nursing schools, health care centres and other patient care facilities, toward the enhancement of knowledge in nursing education, school nursing and administration.

Purpose of Clinical Rotation

The purpose of the clinical rotation is to provide opportunities that will facilitate the integration of knowledge gained in the theoretical component to be transferred effectively to 'hands-on' clinical skills in the various nursing practice sites. Policies and procedures will be provided by the School.

6. General Regulations

6.1 Registration

- i. Registration for courses takes place each semester during the period designated by The University. Late registration may be permitted in accordance with The University's general regulations (a late fee of TT\$200 applies).
- ii. Students must be registered for examinations according to the University guidelines for examinations.

6.2 Exemptions

- i. A student who holds a diploma/certificate/associate degree in nursing and passed an examination from this or other recognised university in a course equivalent to the part or whole of a course in the nursing degree courses may apply through the Director of the School for exemptions. The Director of the School shall examine the syllabus, nature and duration of, and student's grading in the examination in that course, the time that has elapsed since it had been completed, and in particular whether such a course is equivalent in whole or in part to that offered in the University of the West Indies.
- ii. The Director of the School, through the Dean, shall make one of the following recommendations to the Faculty Board, indicating reasons for such recommendations:
 - That the student be exempted from both the course and the examination
 - That the student be exempted from a part or the whole of the course, but be required to take a part of or the full examination.
 - That the application be rejected.
- iii. Exemptions shall not be granted automatically to students who have been asked to withdraw from and/or have been re-admitted to the Faculty.

6.3 Debarments, Repeats, Withdrawals

- i. Where there is dissatisfaction with the work of a student, the Director of the School may report the matter to the Dean and the Faculty Board, which may recommend to the Academic Board (St. Augustine) that the student be debarred from the examination and either repeat the course or be required to withdraw from the Faculty of Medical Sciences.

- ii. Students required to withdraw from the University for failing to complete the degree programme within the stipulated time or for poor performance as provided for in the Faculty Regulations may be re-admitted to the Faculty after at least one year has elapsed since their withdrawal.
- iii. Any behaviour that is in violation of any rules/regulations of the School/Faculty can lead to the dismissal from the School/The University.

6.4 Language and Communication Proficiency/UWI Foundation Courses

- i. All Year 1 students will be required to complete a minimum of nine (9) credits of Foundation courses, including NURS 1004 (Communication Skills Writing), NURS 1005 (Communication Skills, Interpersonal) and FOUN 1101 – Caribbean Civilisation OR FOUN 1301 – Law, Governance and Society.
- ii. All students will be required to complete a module on Nursing Informatics in order to fully utilize the information services and learning resource materials at the Medical Sciences Library.

6.5 Attendance

ATTENDANCE IN EXCESS OF 75% IS MANDATORY IN ALL COURSES INCLUDING CLINICAL PRACTICUM. Students are required to inform the Office of the Director, School of Nursing within one week of any absence from any part of a course. Late excuses will not be accepted.

7. Examinations

- **STUDENTS WILL ONLY BE ELIGIBLE TO APPEAR FOR EXAMINATIONS IF THEY HAVE BEEN FINANCIALLY CLEARED BY THE UNIVERSITY.**
- **ANY STUDENT WHO WRITES AN EXAMINATION FOR WHICH HE/SHE IS NOT REGISTERED WILL NOT BE CREDITED FOR THE COURSE.**
 - i. Examinations will be held at the end of each semester. A student, who fails in the examinations of any course, will be governed totally by the rules and regulations set out for examinations of nursing students.
 - ii. Examinations shall consist of written papers, coursework and/or objective testing, projects, and orals. The latter is at the discretion of the examiners. In addition, evaluation of Nursing Clinicals may be included in examinations conducted on clerkships/practicum attachments in relevant settings.
 - iii. The continuous assessment for all courses EXCEPT Nursing Clinical courses will carry a value of 40% and the final examinations will carry a value of 60%. The continuous assessment in Nursing Clinicals will carry a value of 100%.
 - iv. **** Effective Semester 1 2021/22, a student who fails to satisfy the examiners in any theoretical nursing course (consisting of Coursework and Final Examination) offered during the semester will be allowed to write a Re-sit Examination before the end of August in the academic year in which the course is taken, if the student had made at least F1 or F2 in the course/s. RE-SIT examination will not be given to students with grading scale F3", they will be required to REPEAT the course in the next academic year.**

***"This will become effective upon receipt of final approval from Board of Undergraduate Studies (BUS)". Students can contact the office at 1-868-225-1028 for further details."*
 - v. ****A student who fails the supplemental examination(s) will be required to repeat the course(s) failed at the next offering.**

***"This will become effective upon receipt of final approval from Board of Undergraduate Studies (BUS)". Students can contact the office at 1-868-225-1028 for further details."*
 - vi. ****A student who receives a F2 or F3 grade in an Examination Only (Continuous Assessment) course will be deemed to have failed the course and will be required to repeat the entire nursing specific course at the next offering.**

***"This will become effective upon receipt of final approval from Board of Undergraduate Studies (BUS)". Students can contact the office at 1-868-225-1028 for further details."*
 - vii. Students are expected to maintain a GPA of 2.0 and above for progression in this programme in accordance with The University's regulations.

- viii. A student failing a course(s) may be allowed to re-sit the examinations in the failed course(s), up to a maximum of nine (9) credits and may request permission to transfer/carry forward coursework marks obtained in the respective course(s), when the examination is repeated within one academic year. The re-sit examinations will usually be held before the end of August.
- ix. Students must attend the courses of study in the order prescribed in the Regulations. They will not be eligible to enter for final examinations for the BScN degree unless they have passed all the course work assessment preceding the final examinations.
- x. A student shall not be approved by the examiners in any one part or section of an examination unless he/she attended all of the written, practical and oral examinations in that part.
- xi. A student may be credited with those part(s) or sections of the examination in which he/she has satisfied the examiners for a period approved by the Faculty Board.
- xii. The Board of Examiners may recommend deferral for up to one (1) year in the first instance, a further period to be approved by the Faculty Board where the poor overall performance of the student warrants this action.

8. Grading Scheme

The grading scheme for the BSc Nursing programmes effective 2016/2017 shall be as follows:

GRADE	% RANGE	QUALITY POINTS
A+	90-100	4.30
A	80-89	4.00
A-	75-79	3.70
B+	70-74	3.30
B	65-69	3.00
B-	60-64	2.70
C+	55-59	2.30
C	50-54	2.00
F1	40-49	1.70
F2	30-39	1.30
F3	0-29	0.00

Note: For returning/ continuing students, the new F1, F2, F3 bands applied effective 2016/ 2017 shall continue.

9. Award of Degree

- i. The classes of degree will be awarded as follows:

GPA	CLASS OF DEGREE
3.6 and above	First Class Honours
3.0 - 3.59	Upper Second Class Honours
2.50 - 2.99	Lower Second Class Honours
2.00 – 2.49	Pass
- ii. A student is eligible for the award of the BScN upon completion of the relevant courses that is, following the course of study outlined and passing the necessary examinations. It is an essential requirement for eligibility for the final examinations that students shall have completed all the nursing practice components of the programme, including the extramural instructions within the Nursing Practicum for a period of 8 weeks. Students are required to have maintained a minimum grade of C in the components of training associated with Nursing Studies and Nursing Practicum.
- i. A student becomes eligible for the award of an Honours degree by maintaining a minimum B average and passing at least 90 credits in Level II, Level III and Level 4 courses at the first attempt in the Four-Year BScN Pre-Registration undergraduate programme and at least 60 credits at level 11 of the Two-Year BScN (Post-Registration) Programme.

COURSE LISTING

BSc Nursing (Pre-Registration) - Four-Year Programme (Full-Time)

CORE COURSES AND ELECTIVES

YEAR 1

SEMESTER 1

Course Code	Course Title	Credits
NURS 1004	Communication Skills Writing	3
NURS 1109	Human Anatomy & Physiology I	3
NURS 1110	Biochemistry	3
NURS 2010	Introduction to Professional Nursing	3
SOCI 1002	Sociology of the Caribbean	3
PSYC 1000	Introduction to Psychology: Developmental, Social, Abnormal	3
SPAN 1007	Spanish for Beginners I (Compulsory Elective) (YEAR LONG)	3

SEMESTER 2

Course Code	Course Title	Credits
NURS 1005	Communication Skills Interpersonal	3
NURS 1111	Microbiology	3
NURS 1114	Human Anatomy & Physiology II	3
NURS 2011	Health Promotion	3
NURS 2014	Community Health Nursing	3
FOUN 1101	Caribbean Civilisation	3

SEMESTER 3

Course Code	Course Title	Credits
NURS 2015	Community Health Nursing Clinical Practicum	3

YEAR 2

SEMESTER 1

Course Code	Course Title	Credits
NURS 1112	Patient Health Care & Worker Safety	3
NURS 1115	Nutrition	2
NURS 1116	Epidemiology	3
NURS 2012	Human Pathophysiology	3
NURS 2013	The Nursing Process & Health Assessment	3

SEMESTER 2

Course Code	Course Title	Credits
NURS 1113	Health Informatics	3
NURS 2016	Diet Therapy	2
NURS 2017	First Aid & Basic Life Support	2
NURS 2018	Pharmacology & Therapeutics in Nursing	3
NURS 2019	Concepts Applied to Nursing	3
SOCI 1005	Introductory Statistics for the Behavioural Sciences	3

SEMESTER 3

Course Code	Course Title	Credits
NURS 2020	Concepts Applied to Nursing Clinical Practicum	3

YEAR 3

SEMESTER 1

Course Code	Course Title	Credits
NURS 3010	Research Methodology	3
NURS 3011	Mental Health Nursing	3
NURS 3012	Mental Health Nursing Clinical Practicum	3
NURS 3013	Nursing Care for Adults	4
NURS 3014	Nursing Care for Adults Clinical Practicum	4

SEMESTER 2

Course Code	Course Title	Credits
NURS 3015	Nursing Care of Older Adults	3
NURS 3016	Nursing Care of Older Adults Clinical Practicum	3
NURS 3017	Parent Child Nursing	3
NURS 3018	Parent Child Nursing Clinical Practicum	4

YEAR 4

SEMESTER 1

Course Code	Course Title	Credits
NURS 4010	Nursing Care for Children & Adolescents	3
NURS 4011	Nursing Care for Children & Adolescents Clinical Practicum	4
NURS 4012	Nursing Care for Patients in Specialized Settings	3
NURS 4013	Nursing Care for Patients in Specialized Settings Clinical. Practical	4

SEMESTER 2

Course Code	Course Title	Credits
NURS 4014	Research Project	3
NURS 4015	Leadership & Management in Nursing	3
NURS 4016	Leadership & Management in Nursing Practicum	4

SEMESTER 3

Course Code	Course Title	Credits
NURS 4017	Clinical Internship	4
NURS 4018	Senior Nursing Review	0

BSc Nursing (Post-Registration) - Two-Year Programme (Full-Time)

BSc Nursing (Post-Registration) - Three-Year Programme (Part-Time)

FOUNDATION COURSES

YEAR 1

Course Code	Course Title	Credits	Semester
FOUN 1101	Caribbean Civilisation	3	1 & 2
OR			
FOUN 1301	Law, Governance, Economy & Society	3	1 & 2

CORE COURSES AND ELECTIVES

YEAR 1

SEMESTER 1

Course Code	Course Title	Credits
NURS 1004	Communication Skills Writing	3
NURS 1100	Integrated Basic Health Sciences for Nurses I	5
NURS 1201	Pathophysiology/Immunology& Genetics I	3
NURS 1500	Nursing Informatics	3
NURS 2502	Clinical Epidemiology & Biostatistics	3
SPAN 1007	Spanish for Beginners I (Compulsory Elective) (YEAR LONG)	3

SEMESTER 2

Course Code	Course Title	Credits
NURS 1005	Communication Skills Interpersonal	3
NURS 1202	Health Assessment	3
NURS 1203	Primary Health Care & Health Promotion	3
NURS 2100	Integrated Basic Health Sciences for Nurses II	5
NURS 2201	Pathophysiology/Immunology & Genetics II	3

SEMESTER 3

Course Code	Course Title	Credits
FOUN 1101	Caribbean Civilisation	3

YEAR 2

SEMESTER 1

Course Code	Course Title	Credits
NURS 2300	Nursing Research Project I	3
NURS 2510	Classroom Teaching, Assessment & Evaluation	3
NURS 2511	Ethical, Legal & Moral Aspects of Nursing & Health Care	3
NURS 2512	Educational Psychology & Counselling	3
NURS 2513	Theories in Education	3
NURS 3100	Nursing Pharmacotherapeutics	3

SEMESTER 2

Course Code	Course Title	Credits
NURS 2301	Nursing Research Project II	3
NURS 3200	Nursing Sciences	3
NURS 2501	Nursing Leadership & Management	3
NURS 3310	Health Policy	3
NURS 3510	Curriculum Methods & Strategies	3
NURS 3511	Nursing & Health Education	3

SEMESTER 3

Course Code	Course Title	Credits
NURS 2400	Nursing Seminar	3
NURS 3500	High Risk Population (Elective)	3

In addition to the above:

BSc Nursing (School Nursing)

Course Code	Course Title	Credits
NURS 3300	School Nurse Practicum	6

BSc Nursing (Education)

Course Code	Course Title	Credits
NURS 3301	Nurse Educator Practicum	6

BSc Nursing (Administration)

Course Code	Course Title	Credits
NURS 3302	Nursing Administrator Practicum	6

BSc Nursing (Oncology)

YEAR 1

SEMESTER 3

Course Code	Course Title	Credits
NURS 2302	Introduction to Nursing Research	3

YEAR 2

SEMESTER 1

Course Code	Course Title	Credits
NURS 2511	Ethical, Legal & Moral Aspects of Nursing & Health Care Advanced Therapeutic	3
NURS 2514	Communication with Patients & Families	3
NURS 2515	Critical Appraisal and Evidence-Based Practice	4
NURS 2600	Concepts and Theories in Oncology Nursing I	3
NURS 3100	Nursing Pharmacotherapeutics	3

SEMESTER 2

Course Code	Course Title	Credits
NURS 2601	Concepts & Theories in Oncology Nursing II	3
NURS 2610	Introduction to Palliative Care in Nursing	3
NURS 2611	Oncology Health Assessment	3
NURS 2400	Nursing Seminar	3
NURS 2501	Nursing Leadership & Management	3

SEMESTER 3

Course Code	Course Title	Credits
NURS 3512	Cancer Care for Children and Adolescents	3
NURS 3515	Cancer of the Prostate (Elective)	3
NURS 3400	Guided Nursing Practice (Clinical Course)	6

Post Registration Diploma in Health Visiting

1. Entry Requirements

Applicants for admission to this programme of study will be required to satisfy the minimum standards for entry to the Post Registration Nursing Diploma programme, as set forth by the University Regulations governing matriculation as follows:

- 1.1 Passes in at least five (5) CSEC (CXC) General Proficiency or GCE O-Level/BFCSE or approved equivalent.

2. Special Requirements

- 2.1 Completion of the basic or general qualification in Nursing, such as, a Certificate, Diploma or Associate Degree with minimum passing grade of B or its approved equivalent.
- 2.2 Must be a registered nurse. Entry qualifications of applicants, when assessed by the admissions team, must be equivalent to a minimum of (30) credits.
- 2.3 A minimum of five (5) years post-registration experience as a practising nurse.
 - Applicants with Certificates, Diplomas, or Associate Degrees with a grade lower than the approved grade, upon recommendation from the registration body or equivalent authority, if approved for entry, will be required to write a challenge examination.
 - Candidates with additional post-basic qualifications in Nursing from programmes offered by The UWI or other recognised tertiary institutions may be considered for admission on a preferential basis, but must have obtained a minimum B grade in major course components of their post-basic training.

Provisional acceptance may be offered in the case of other entry requirements subject to the approval of an Advisory Committee.

3. Programme of Study

The Post-Registration Diploma in Health Visiting is a full-time programme, which builds on the student's knowledge of the nursing profession as would have been gained by prior training and working experience. The curriculum provides the student with the knowledge, skills, abilities, attitudes and values that, in composite, relate to the professional competencies and outcome expectations of Nurses who will be assigned to the community health setting. Students are required to complete this course in one Academic Year using blended learning of face to face and online interactions.

4. Award of Degree DHV

- i. The classes of degree will be awarded as follows:

GPA	CLASS OF DEGREE
3.7 and above	Distinction
2.7 - 3.30	Honours
2.00 – 2.69	Pass

- ii. A student is eligible for the award of the Diploma in Health Visiting upon completion of the relevant courses, that is, following the course of study outlined and passing the necessary examinations. It is an essential requirement for eligibility for the final examinations that students shall have completed all the nursing practice components of the programme, including the extramural instructions within the Nursing Practicum for a period of 12 weeks. Students are required to have maintained a minimum grade of C in the components of training associated with Nursing Studies and Nursing Practicum.

A student becomes eligible for the award of an Honours degree by maintaining a minimum B average and passing all courses at the first attempt in the programme.

COURSE LISTING

CORE COURSES

SEMESTER 1

Course Code	Course Title	Credits
NURS 0100	Physiology	3
NURS 0110	Psychology	3
NURS 0120	Sociology	3
NURS 0130	Social History and Social Administration	3
NURS 0140	Health Visiting Studies	3

SEMESTER 2

Course Code	Course Title	Credits
NURS 0150	Principles and Practice of Teaching	3
NURS 0160	Principles & Practice of Management	3
NURS 0170	Research Methods	3
NURS 0180	Organization of Health Systems in Trinidad and Tobago	3
NURS 0190	Environmental Health	6
NURS 0200	Professional Aspects of Health Visiting (Year Long)	6
NURS 0210	Major Diseases and Conditions Affecting Health (Year Long)	6

SEMESTER 3

Course Code	Course Title	Credits
NURS 0220	Scope of Health Visiting – Area of Practice	6

Bachelor of Science in Midwifery

1. Entry Requirements

Applicants for admission to this programme of study will be required to satisfy the minimum standards for entry to the BSc Midwifery programme, as set forth by the University Regulations governing matriculation as follows:

- 1.2 Passes in at least five (5) CSEC (CXC) General Proficiency or GCE O-Level/BFCSE or approved equivalent, Grades I-III including English Language, Mathematics and at least 1 science subject: Physics, Chemistry, Biology, Human & Social Biology or Integrated Science.
- 1.3 Qualification/ Licensing as a registered Nurse (RN), Registered Mental Nurse (RMN) or Licensed Midwife (LM).
- 1.4 At least three (3) years' post registration/ licensing experience.

2. Special Requirements

- 2.1 Completion of the basic or general qualification in Nursing, such as, a Certificate, Diploma or Associate Degree with minimum passing grade of B or its approved equivalent.
- 2.2 Must be a registered nurse. Entry qualifications of applicants, when assessed by the admissions team, must be equivalent to a minimum of (30) credits.
- 2.3 A minimum of three (3) years post-registration experience as a practicing nurse.
 - Applicants with Certificates, Diplomas, or Associate Degrees with a grade lower than the approved grade, upon recommendation from the registration body or equivalent authority, if approved for entry, will be required to write a challenge examination.
 - Candidates with additional post-basic qualifications in Nursing from programmes offered by The UWI or other recognized tertiary institutions may be considered for admission on a preferential basis, but must have obtained a minimum B grade in major course components of their post-basic training.

Provisional acceptance may be offered in the case of other entry requirements subject to the approval of an Advisory Committee.

3. Programme of Study

The BSc Midwifery is a full-time Two (2) Year programme, which builds on the student's knowledge of the nursing/ midwifery profession as would have been gained by prior training and working experience. The curriculum provides the student with the knowledge, skills, abilities, attitudes and values that, in composite, relate to the professional competencies and outcome expectations of Nurses who will be assigned to the community health setting. Students are required to complete this course in one Academic Year using blended learning of face to face and online interactions.

4. Award of BSc. Degree in Midwifery

iii. The classes of degree will be awarded as follows:

GPA	CLASS OF DEGREE
3.6 and above	First Class Honours
3.0 - 3.59	Upper Second Class Honours
2.50 - 2.99	Lower Second Class Honours
2.00 – 2.49	Pass

- iv. A student is eligible for the award of the BSc Midwifery upon completion of the relevant courses that is, following the course of study outlined and passing the necessary examinations. It is an essential requirement for eligibility for the final examinations that students shall have completed all the nursing practice components of the programme, including the Clinical Internship. Students are required to have maintained a minimum grade of C in the components of training associated with Nursing Studies and Nursing Practicum.

A student becomes eligible for the award of an Honours degree by maintaining a minimum B average and passing all courses at the first attempt in the programme.

CORE COURSES AND ELECTIVES

This programme will be delivered over a two-year period for Registered Nurses.

SEMESTER 1	YEAR 1	
Course Code	Course Title	Credits
MIDW 3001	Research Methodology	3
MIDW 3002	Midwifery Concepts, Preconception & Pregnancy Planning	3
MIDW 3003	Midwifery Ethics and Law	3
MIDW 3004	Antenatal care	4 (3T, 1L)
MIDW 3005	Antenatal care Practicum	4
SPAN 1007	Spanish for Beginners I (Compulsory Elective) (YEAR LONG)	3
	TOTAL	20
 SEMESTER 2	 YEAR 1	
MIDW 3006	Care During Labour, Birth & Puerperium	3 (2T, 1L)
MIDW 3007	Care During Labour, Birth & Puerperium Practicum I	4
MIDW 3008	Care of the Newborn	3 (2T, 1L)
MIDW 3009	Pharmacology Applied to Midwifery	3
	TOTAL	13
 SEMESTER 3	 YEAR 1	
MIDW 3010	Care During labour, Birth and Puerperium Practicum II	4
	TOTAL CREDITS YEAR 3	34
 SEMESTER 1	 YEAR 2	
Course Code	Course Title	Credits
MIDW 4001	Complications of Pregnancy, Child Birth & Puerperium	3
MIDW 4002	Complications of Pregnancy, Child Birth & Puerperium Practicum	4
MIDW 4003	The High-risk Newborn	3
MIDW 4004	The High-risk Newborn Practicum	4
	TOTAL	14
 SEMESTER 2	 YEAR 2	
MIDW 4005	Research Project	3
MIDW 4006	Leadership & Management in Midwifery	3
MIDW 4007	Leadership & Management in Midwifery Practicum	4
MIDW 4008	Free/General Elective	3
	TOTAL	13
 SEMESTER 3	 YEAR 2	
MIDW 4009	Clinical Midwifery Internship/Practicum	4
	TOTAL	4
	TOTAL CREDITS YEAR 4	31
	 Total Programme Theory Hours	1,116
	Total Programme Lab Hours	72
	Total Clinical Hours	1,344
	TOTAL PROGRAMME HOURS	2,522

OFFICE OF THE DEAN

Pre-Health Professions Programme (PHPP)

1. Entry Requirements

- Candidates should have a high school certificate (Grade 12 matriculation) with a minimum grade point average (GPA) of 3.0 in Chemistry, Physics, Mathematics, Biology, English and a foreign language.
- Alternatively, candidates should have passes in at least five (5) subjects at CXC (CSEC) General Proficiency (Grades I or II pre-1998 and I-III from 1998) or GCE O-levels or BSCSE (Grades A-C) or approved equivalents, which must include English Language, Mathematics, Chemistry, Biology and Physics and a foreign language.
- Consideration will be given to students transferring from other fields to the health professions.

2. Programme Outline

The programme runs for three (3) semesters. The courses will be delivered during the regular 1st and 2nd semesters (i.e. September – December and January – May) as well as the 9 week summer semester in June - July. Successful students will be deemed to have met the matriculation requirements and their cases will be considered by the Faculty Entrance Committee for entry into one of the degree programmes in the Faculty.

The courses will be delivered as modules. This will ensure that the contents are based on specified objectives and students will be able to acquire knowledge and skills from the theory and practical in an integrated fashion from beginning to the end of the programme.

3. Certificate Requirements

The requirement for the Pre-Health Professions Programme Certificate is successful completion of the following subjects: Chemistry, English, Mathematics, Physics and Biology; with a minimum overall programme GPA of 3.0.

4. Registration

Registration is held prior to the beginning of each semester. When registering, students are allocated a student ID number that they will retain throughout their association with the Open Campus. All correspondence with the Open Campus must be forwarded through the Programme Coordinator and must bear the student ID number. Notification regarding change of name, address, and/or telephone number should be filed promptly with the Coordinator.

5. Fees

Tuition fees are payable in full in advance and upon registration. The privilege of registering may be withheld for unpaid fees. Arrangements can be negotiated for semester payments. Fees are neither transferable nor refundable after the third week of the semester.

The tuition fee will include payment of the following fees:

- Registration
- Caution
- Laboratory
- Transcripts on completion
- English Proficiency Test for entry to The UWI

6. Exemptions

Students must complete an exemption application form. No exemption is valid until the applicant has registered and paid the appropriate exemption fee in full.

7. Withdrawal

Non-attendance does not constitute notice of withdrawal. The student is responsible for the submission of a letter indicating intention to withdraw or requesting leave of absence if she/he wishes to continue with the programme.

8. Course Assessment

Student assessment takes the following form:

1. Continuous assessment - A student's performance during the year will be monitored on a continuous basis in each subject by means of a combination of the following methods:
 - Self-directed learning project or research activity
 - Short tests
 - Class presentations

At the end of the semester, each subject tutor will submit an assessment known as a class mark which accounts for 30% of the student's final mark.

2. End of semester examinations - the final examination accounts for 70% of the final mark.

9. Grading Scheme

The grading scheme for students in the Pre-Health Professions Programme effective 2016/2017 shall be as follows:

GRADE	% RANGE	QUALITY POINTS
A+	90-100	4.30
A	80-89	4.00
A-	75-79	3.70
B+	70-74	3.30
B	65-69	3.00
B-	60-64	2.70
C+	55-59	2.30
C	50-54	2.00
F1	40-49	1.70
F2	30-39	1.30
F3	0-29	0.00

Note: For returning/continuing students, the new F1, F2, F3 bands shall be applied effective 2016/2017. This change will not be applied retroactively.

Under certain circumstances the following grades may be awarded but these will not be used in the calculation of the grade point average.

E: Exemption

V: An audited course, no credit

P: Pass/ Fail

10. Progress Through the Programme

- i. A student is considered to have successfully completed a course only after reaching the required standard, i.e. when both class marks and final examination marks are taken into account, students must have achieved a minimum of Grade B in the course.
- ii. A student who fails to achieve a passing grade in a course at the first attempt will be required to repeat the examination in the failed course(s). All grades will be recorded on the student's transcript but only the grade earned at the successful attempt will be used in computing the programme GPA.
- iii. A student who fails to achieve a passing grade in a course at the second attempt will be required to repeat the failed course(s) in the following year and sit the respective end-of-semester examinations.

11. Academic Standing

Students should maintain a cumulative GPA of 3.0 (or B). If a student's GPA consistently falls below 3.0, his/ her record will be reviewed by the Administrative Board and he/ she may be required to withdraw from the programme.

12. Attendance

Regular class attendance is essential. **Students are expected to attend over 75% of classes.** Failure to maintain this level of attendance may result in students being debarred from writing the end-of-semester examinations. Absence for medical reasons is included in the 25% allowed. On returning to classes after prolonged illness, a student must submit a Medical Certificate.

COURSE DESCRIPTIONS

FACULTY OF MEDICAL SCIENCES

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

FOUNDATION COURSES

SEMESTER: 1

COURSE CODE: PECH 1001

COURSE TITLE: THE HEALTH PROFESSIONAL AND SOCIETY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The first of several courses exploring Professionalism, Ethics and Communication in Health this course provides students with an overarching and philosophical understanding of the role of the health professional within wider society. Focusing not only on the provision of services and the health of the nation it explores the unwritten social contract between health professionals and society and their commitment to serve the public good. Students will study the concepts of health and wellness, models of health and how this affects management of patients and current concepts and principles relating to professional conduct. Students will also be introduced to the basis of medical ethics and the importance of ethical behaviour as an undergirding element of both individual health care practitioners and the wider health care system. Finally students will explore the hidden curriculum and other wider factors that can impact upon ethical and professional behaviour. By engaging the students in the exploration of these concepts and the values necessary to fulfil this mandate the course provides students with an opportunity for introspection and self- reflection about their chosen career path and their role as emerging leaders. The course will utilize lectures and small group tutorials sessions as the primary means of course instruction. There will be a strong emphasis on the classroom discussion and the development of skills. The sessions have also been tailored to stimulate student reflection and introspection. Students will be continually asked to consider the issues raised in sessions. The use of journal writing as a method of assessment will also encourage reflection and introspection.

ASSESSMENT:

PECH 1001 uses a multimodal assessment strategy that consists of continuous assessment throughout and a final examination after the course has been completed. Continuous assessment (50%) is based on reflective writing, group presentations and classroom participation. The final examination (50%) consists of short answer and essay questions.

SEMESTER: 2

COURSE CODE: PECH 1101

COURSE TITLE: COMMUNICATION SKILLS FOR EFFECTIVE HEALTH CARE

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The second of several courses exploring Professionalism, Ethics and Communication in Health this course provides students with the basic knowledge and principles of communication and their application in various different contexts. In addition, it provides students with the opportunity to develop core skills in these areas. In this light student are first introduced to key elements of best practice as it pertains to personal deportment, the use of social media, online professionalism and communications. Students will then study professional communication in the form of individual oral presentations, report writing and interacting with other health professionals. Finally, students are introduced to the clinical communication context in the form of the medical interview and exposed to the Four-Habits Model. Like other courses in the program, PECH 1101 will utilize lectures and small group tutorials sessions as the primary means of course instruction. There is again a strong emphasis on the development of skills and students will be expected to demonstrate these skills in classroom presentations, role play and group interactions. Assessment methods are tailored to evaluate these skills particularly during continuous assessment. As an example, actual presentations for assessment are videotaped for self-analysis and improvement of verbal and non- verbal skills.

ASSESSMENT:

PECH 1101 focuses on the development of communication skills and therefore uses a multimodal assessment strategy including continuous assessment (50%) and a final examination (50%). Continuous assessment consists of an oral presentation and a group-based project related to case conferencing. In addition, students will be assessed on their active participation and critical thinking in small group tutorial sessions. The final examination consists of short answer questions and essays questions.

SEMESTER: 2

COURSE CODE: PECH 1102

COURSE TITLE: PECH PRACTICUM

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The final year one offering in the Professionalism, Ethics and Communication in Health (PECH) Program this course provides students with practical and real-world exposure to the concepts they would have been taught in PECH 1001 and PECH 1101. It is founded on principles of service- learning in which students are commissioned to work in groups on a community-based project that must demonstrate a measure of service to the wider society. The choice of the project, its scope, reach and implementation will primarily be the decision and responsibility of the students though it will be guided by a tutor assigned to each group. Students will be guided by their tutors and acquire practical skills through the execution of the project including project planning, record keeping, project management, proposal writing and report writing. A key component of the course will be the opportunity and requirement that the students reflect on their experiences. The course will be assessed on a pass/fail basis based on a written proposal, a written report and group presentation of the project, reflective essays, tutor and peer assessment. Ultimately, it is hoped that after pursuing this course students will appreciate the value they bring through service to society and the absolute relevance of professionalism, ethics and communications as a core component of who they are becoming.

ASSESSMENT:

PECH 1102 is a pass/fail course based on 100% continuous assessment (including assessment of project proposal, project written report and group presentation, reflective essays, tutor and peer assessment).

SEMESTER: 1 & 2

COURSE CODE: FOUN 1101

COURSE TITLE: CARIBBEAN CIVILISATION

NUMBER OF CREDITS: 3

COURSE DESCRIPTION:

1. To develop an awareness of the main process of cultural development in Caribbean societies, highlighting the factors, the problematics and the creative output that have fed the emergence of Caribbean identities.
2. To develop a perception of the Caribbean as wider than island nations or linguistic blocs.
3. To stimulate students' interest in, and commitment to Caribbean civilization and to further their self-definition.

ASSESSMENT:

Book Report: 40%
Final 2-hour examination: 60%

SEMESTER:1

COURSE CODE: FOUN 1102

COURSE TITLE: ACADEMIC WRITING FOR DIFFERENT DISCIPLINES*

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: Students can choose any one of the three options in this course. **Option A:** Writing About Literature introduces students to strategies for reading and writing about literature. The emphasis will be placed on how to read literature insightfully and how to write critical analyses competently. The aim of this course option is to build students' analytical and critical thinking skills in the analysis of the traditional genres of literature and the production of academic writing based on sound research and documentation appropriate to tertiary level studies. **Option B:** Argument and Report Writing which examines two aspects of argument: argument as investigation into a given problem and selecting one of several possible solutions, and argument as a formal written exercise on a controversial issue, based on logical reasoning from sound evidence. The aim of this course option is to build students' skills in the production of argumentative and report writing based on sound research and documentation appropriate to tertiary level studies. **Option C:** Scientific and Technical Writing which encourages students to reason about phenomena in ways that allow them to produce clearly and accurately written assignments that reflect precise and exact thinking. The aim of this course option is to improve writing, specifically technical and expository writing, among Science & Agriculture students at the tertiary level.

SEMESTER: 1 & 2

COURSE CODE: FOUN 1301

COURSE TITLE: LAW, GOVERNANCE, ECONOMY AND SOCIETY

NUMBER OF CREDITS: 3

CO-REQUISITES: NONE

COURSE DESCRIPTION: This is a multi-disciplinary course of the Faculty of Social Sciences at St. Augustine. It is designed mainly for non-Social Science students. The course will introduce some of the major institutions in Caribbean society. It exposes the student to both the historical and contemporary aspects of Caribbean society, including Caribbean legal, political and economic systems. In addition, Caribbean culture and Caribbean social problems are discussed.

FOREIGN LANGUAGE REQUIREMENT

LEVEL:1

SEMESTER: 1 (YEAR LONG)

COURSE CODE: SPAN 1007

COURSE TITLE: SPANISH FOR BEGINNERS I

PRE -REQUISITES: NONE

CO-REQUISITES: NONE

COURSE TYPE: ELECTIVE (COMPULSORY)*

CREDITS: 3 CREDITS

COURSE DESCRIPTION: This beginners' course will be delivered in a blended format, comprising a total of 3 contact hours per week: one 1-hour sessions of face-to-face (F2F) instruction (delivered remotely via Zoom when necessary) and 2 hours of asynchronous online study on myeLearning. It is designed for learners with no prior, formal academic knowledge of Spanish. It is indexed against the A1 level of the Common European Framework of Reference for Languages (CEFR). Therefore, upon successful completion of this course, students will be expected to perform at the CEFR A1 level of proficiency.

Throughout the course, students will begin to develop the ability to communicate in Spanish in situations relating to their personal lives. The course will thus focus on the development of the four predominant skills involved in language learning (speaking, listening, reading and writing). Students will also be introduced to various cultural aspects of the language and the concept of learner autonomy. Students are expected to attend and actively participate in weekly F2F sessions and complete the online activities uploaded to myeLearning.

ASSESSMENT:

Assessment for this course consists of 100% coursework, which will be derived from quizzes, writing tasks and role plays.

***This course or the equivalent is required in order to graduate.**

- i. **Students who matriculated into The University with a foreign language obtained at the Caribbean Examinations Council with CSEC (Grade 1, 2 or 3) or CAPE Unit I or II (Grades I to 5) or an equivalent, shall be exempted from this requirement and shall receive no credit.**
- ii. **ALL international students whose first language is not English and who matriculated into The University with English as a Second Language qualification shall be exempted.**

SCHOOL OF MEDICINE

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

MBBS - Phase I

LEVEL: 1

SEMESTER: 1

COURSE CODE: MDSC 1401

COURSE TITLE: ENVIRONMENT AND HEALTH

NUMBER OF CREDITS: 6

PREREQUISITES: NONE

CO-REQUISITES: NONE

COURSE DESCRIPTION: Environment and Health is a 6-credit course taught over 7 weeks. This basic health sciences course introduces preclinical students to the biochemical components, anatomical structure and physiological function of eukaryotic cells in the context of various tissues and their relation to organ systems and the whole individual. Students are also introduced to general embryology, molecular genetics, and the mechanism by which cells perceive and respond to their microenvironment i.e. cell signalling - the basis of development, tissue repair, and immunity, normal tissue homeostasis. Students are also introduced to the consequences of errors occurring during DNA replication, cell division and embryological development as they explore the genetic basis of disease, birth defects and are introduced to basic principles underlying molecular genetic techniques used in diagnostics, therapeutics and research. The whole organism in the context of the broader external environment is also considered as they explore key determinants of health and the interdependence of human, animal and environmental health.

At the end of this course, students understand the biochemical constituents of eukaryotic cells, the structure and function of different types of cells and tissues, the principles of homeostasis and basic enzymology. The students explore the structure-function relationships between macromolecules in health and disease, and appreciate the ways in which organisms cope with changes in the external environment and preserve the constancy of the internal environment. They will also understand the stages of embryonic development and consequences of derangements and the factors that cause them. Finally, students will appreciate personal, social, economic, and environmental factors that influence individual and population health, including the One Health concept. Teaching strategies will include Problem Based Learning (PBL), lectures, self-directed learning and hands on and / or simulated laboratory exercises.

ASSESSMENT:

Continuous assessment based on PBL, quizzes and other in-course individual and / or group assignments will contribute 30% to final marks and the final examination will contribute 70%.

LEVEL: 1

SEMESTER: 1

COURSE CODE: MDSC 1405

COURSE TITLE: BASIC PARACLINICAL SCIENCES I

NUMBER OF CREDITS: 5

PREREQUISITES: NONE

CO-REQUISITES: NONE

COURSE DESCRIPTION: The BASIC PARACLINICAL SCIENCES I (MDSC 1405) will introduce the basic principles of each of the following four integrated inter-disciplinary units enabling students to learn the material within the appropriate context. Students will be introduced to the following sub-disciplines of this course:

1. HAEMATOLOGY - the study of blood and blood disorders
2. IMMUNOLOGY - the study of the defence system of the body
3. PHARMACOLOGY - is the study of substances that interact with living systems through chemical processes, especially by binding to regulatory molecules and activating or inhibiting normal body processes.
4. PUBLIC HEALTH & PRIMARY CARE - is a science and art of preventing diseases, prolonging life and promoting health through the organised efforts of the society.

The course is delivered through weekly PBL sessions, lectures in core disciplines of hematology, immunology, pharmacology and public health & primary care, laboratory exercises, video demonstrations and online learning resources and exercises.

ASSESSMENT:

Assessment consists of PBL sessions, quizzes an end of course spotter examination and a final examination consisting of multiple-choice questions and extended matching questions

LEVEL: 1

SEMESTER: 1

COURSE CODE: MDSC 1406

COURSE TITLE: BASIC PARACLINICAL SCIENCES II

NUMBER OF CREDITS: 4

PREREQUISITES: NONE

CO-REQUISITES: NONE

COURSE DESCRIPTION: The BASIC PARACLINICAL SCIENCES II (MDSC 1406) will introduce the basic principles of each of the following three integrated inter-disciplinary units enabling students to learn the material within the appropriate context.

You will be introduced to the following sub-disciplines of Pathology:

1. ANATOMICAL/GENERAL PATHOLOGY – the study of basic disease processes
2. CHEMICAL PATHOLOGY – the study of normal and abnormal chemistry of the body
3. MEDICAL MICROBIOLOGY – study of microbes (microorganisms – bacteria, virus, fungi and protozoa) and helminths that cause infection in humans.

The course is delivered through weekly PBL sessions, lectures in core disciplines of anatomical Pathology, Chemical Pathology and Microbiology, laboratory exercises, video demonstrations and online learning resources and exercises. Assessment consists of PBL sessions, quizzes an end of course spotter examination and a final examination consisting of multiple-choice questions and extended matching questions.

LEVEL: 1

SEMESTER: 2

COURSE CODE: MDSC 1402

COURSE TITLE: DIGESTION AND METABOLISM

NUMBER OF CREDITS: 6

PREREQUISITES: NONE

CO-REQUISITES: NONE

COURSE DESCRIPTION: This course is intended to give the student basic science knowledge of good nutrition and metabolic requirements through all the stages of the life cycle. The role of various dietary components and nutritional elements and their effects on blood chemistry and nutrition-related disorders in the Caribbean will be addressed. Students will be able to describe the assessment of nutritional status. This course will cover, in detail, the digestion and absorption of carbohydrates, proteins and lipids, the metabolism of carbohydrates and the role of carbohydrates in providing energy for daily activities. Concepts of malnutrition including obesity will also be dealt with. Teaching strategies will include Problem Based Learning (PBL), lectures, self-directed learning and hands-on and / or virtual laboratory exercises.

ASSESSMENT:

Continuous assessment based PBL, quizzes and other in-course assignments will contribute 30% to final marks and the final examination will contribute 70%.

LEVEL: 1

SEMESTER: 2

COURSE CODE: MDSC 1403

COURSE TITLE: THE CARDIOVASCULAR SYSTEM

NUMBER OF CREDITS: 6

PREREQUISITES: NONE

CO-REQUISITES: NONE

COURSE DESCRIPTION: This is a 6-credit course spanning over 8 weeks in which students are introduced to the structure and function of the human cardiovascular system. Lectures in the core disciplines of Anatomy, Biochemistry and Physiology will facilitate students' learning of the normal anatomical (including histological and embryological), physiological and biochemical functions of the heart and blood vessels. Teaching strategies include Problem Based Learning (PBL), lectures, self-directed learning and hands on and / or simulated laboratory exercises. The course material is presented in a context that prepares students for their roles as physicians, i.e. by including clinical examples, where possible in lectures and by clinical scenarios in Problem-based learning (PBL). Hands-on and / or virtual laboratory exercises complement the theoretical knowledge gained in lectures. This learning of normal bodily function will, in turn, form a solid foundation for the understanding and appreciation of the dysfunctions of this system and ultimately, management of dysfunctions. Students will also learn some basic pharmacology and public health concepts through problem-based learning (PBL) and self-directed learning.

ASSESSMENT:

Continuous assessment based on PBL, quizzes and other in-course individual and / or group assignments will contribute 30% to final marks and the final examination will contribute 70%.

LEVEL: 1

SEMESTER: 2

COURSE CODE: MDSC 1404

COURSE TITLE: THE RENAL SYSTEM

NUMBER OF CREDITS: 4

PREREQUISITES: NONE

CO-REQUISITES: NONE

COURSE DESCRIPTION: The Renal System is a 4-credit course spanning over 4 weeks during which students are introduced to the structure and function of the human renal or urinary system. The human renal system consists of the kidneys, ureters, bladder and urethra. The kidneys perform crucial roles in the regulation of fluid, electrolyte and acid-base balance, regulation of blood pressure, and the production of the hormone erythropoietin and the activation of vitamin D. With the other components of the renal system, namely the ureters, bladder and urethra, the kidneys eliminate urine containing metabolic waste products from the body.

Teaching strategies include Problem Based Learning (PBL), lectures, self-directed learning and hands on and / or virtual laboratory exercises. Lectures in the core disciplines of Anatomy, Biochemistry and Physiology will facilitate students' learning of the normal anatomical (including histological and embryological), physiological and biochemical functions of the kidneys, ureters, bladder and urethra. This material is presented in a context that prepares students for their roles as physicians, i.e. by including clinical examples, where possible in lectures and by clinical scenarios in PBL. Laboratory exercises complement the theoretical knowledge gained in lectures. This learning of normal bodily function will, in turn, form a solid foundation for the understanding and appreciation of the dysfunctions of this system and ultimately management of dysfunctions. Students will also learn some basic pharmacology and public health concepts through problem-based learning (PBL) and self-directed learning.

ASSESSMENT:

Continuous assessment based on PBL, quizzes and other in-course individual and / or group assignments will contribute 30% to final marks and the final examination will contribute 70%.

LEVEL: 2

SEMESTER: 1

COURSE CODE: MDSC2401

COURSE TITLE: RESPIRATION

NUMBER OF CREDITS: 5

PREREQUISITES:

CO-REQUISITES:

COURSE DESCRIPTION: An integrated basic science course designed to introduce the student to the concepts of respiration, with emphasis on respiratory physiology. The course focuses primarily on the preclinical disciplines of Anatomy, Biochemistry and Physiology and encompasses various aspects of Pharmacology, Pathology, Microbiology, and Public Health/Primary Care in so far as they facilitate learning in a holistic manner.

The contents of the course include: The anatomy of the respiratory system, the conducting and respiratory airways; lungs as respiratory organs; accessory structures of respiration; physiological mechano-concepts involved in breathing and respiration; control of respiration; biochemistry of gas transport and oxygen and carbon dioxide exchange; biochemistry of the electron transport chain and oxidative phosphorylation; physiological transport of blood gases; basic pulmonary function testing, to include an understanding of the subdivisions of the lung, and the effects of changes on same; defence mechanisms of the respiratory system; immunology, as it relates to respiratory disorders, and the social impact of such conditions (e.g. HIV-AIDS); basic physiological principles underlying certain pathological respiratory conditions (e.g. chronic obstructive lung disease, restrictive disorders); basic pharmacological intervention in cough and bronchial asthma, the pharmacology of autacoids; occupational and community health aspects of the respiratory system (e.g. domestic and industrial allergens, pneumoconioses, active and passive smoking, pulmonary function testing for the industrial workforce; focused history taking (respiratory), and physical examination of the respiratory system.

The course is delivered through weekly large group exercises: lectures and hands on and/ or virtual laboratory sessions,, Problem Based Learning (PBL) sessions: video demonstrations, skills training sessions and large group exercises. Another component of this course is an integrated learning exercise which fosters, and focuses on, small group learning within a large group.

ASSESSMENT:

Continuous assessment based on PBL, quizzes and other in-course individual and / or group assignments will contribute 30% to final marks and the final examination will contribute 70%.

LEVEL: 2

SEMESTER: 1

COURSE CODE: MDSC 2402

COURSE TITLE: NEUROSCIENCES AND BEHAVIOUR

NUMBER OF CREDITS: 6

PREREQUISITES:

CO-REQUISITES:

COURSE DESCRIPTION: This is a 6-credit course delivered over 8 weeks course that explores the functional anatomy and neurophysiology relevant to medical neuroscience. In so doing it provides insight into the most complex organ in the body, the brain and the nervous system. It is this complexity that sets man apart from all other animals. Perception of the environment, our emotions, the facility of memory and the ability to learn are all due to processes within the central nervous system. Similarly, the control of vegetative functions and the coordination of muscle activity allowing us to move and to manipulate objects in the environment are processes controlled by the CNS.

This course will therefore explore the structures and processes responsible for normal functioning of the nervous system and how these processes are influenced by common pathological conditions. It also exposes students to the underlying neurobiological mechanisms of behaviour and introduces them to the growing challenge posed by the increasing burden of mental illness on global society. The course is delivered through weekly PBL sessions, lectures in core disciplines of anatomy, physiology and biochemistry, hands on and / or virtual laboratory exercises, video demonstrations and online learning resources and exercises.

ASSESSMENT:

Continuous assessment based on PBL, quizzes and other in-course individual and / or group assignments will contribute 30% to final marks and the final examination will contribute 70%.

LEVEL: 2

SEMESTER: 1

COURSE CODE: MDSC 2405

COURSE TITLE: THE SPECIAL SENSES

NUMBER OF CREDITS: 4

PREREQUISITES:

CO-REQUISITES:

COURSE DESCRIPTION: The Special Senses is a 4-credit course that provides students with an understanding of the mammalian special sensory systems, specifically relating to vision, audition, taste and olfaction. It explores the structure and functions of these specialized organs (eye, ear, nose and tongue) and focuses upon the molecular and cellular events underlying sensory processing. The course will also explore common disorders associated with these organs and the underlying basic pathology and principles of management. The course is delivered through weekly PBL sessions, lectures in core disciplines of anatomy, physiology and biochemistry, hands on and / or virtual laboratory exercises, video demonstrations and online learning resources and exercises.

ASSESSMENT:

Continuous assessment based on PBL, quizzes and other in-course individual and / or group assignments will contribute 30% to final marks and the final examination will contribute 70%.

LEVEL: 2

SEMESTER: 1

COURSE CODE: MDSC 2407

COURSE TITLE: INTRODUCTION TO RESEARCH METHODS AND BIostatISTICS

NUMBER OF CREDITS: 3

PREREQUISITES:

CO-REQUISITES:

COURSE DESCRIPTION: MDSC 2407 introduces students to selected topics in research methods and biostatistics, including epidemiology and ethics, for application in the health sciences and health research. The course will provide an overview of the research process and is the companion course for Research Project I and II. Some areas covered include the identification of a research question, selection of an appropriate study method, ethic in research, and how to the analyse data. The course content will be delivered using face-to-face lecture sessions and supervision to guide the development of the project proposal. On completion the student has the basics necessary to conduct original research.

LEVEL: 2

SEMESTER: 1

COURSE CODE: MDSC 2409

COURSE TITLE: INTRODUCTION TO MEDICAL ETHICS

NUMBER OF CREDITS: 3

PREREQUISITES:

CO-REQUISITES:

COURSE DESCRIPTION: This Year 2 course introduces students to the four basic principles of biomedical ethics that provide the accepted theoretical and practical framework by which clinicians interface with their patients. The four principles: Patient Autonomy, Beneficence, Non-Maleficence and Justice are often at tension with one another but taken together seek to ensure clinicians work to secure the best interests of their patients within the broader framework of personal and social responsibility. In so doing they provide a template by which clinicians and students can evaluate and manage difficult ethical situations. Students will also be introduced to other key aspects of ethical practice including informed consent, the importance of understanding and respecting different cultural experiences of their patients and the issues surrounding conflict of interests. The course is designed to provide a theoretical basis of knowledge that is then expressed in skills and behaviours relevant to the practice of good medicine.

ASSESSMENT:

Assessment will focus on knowledge learned, skills developed and reflective engagement with the learning material. It consists of in-course assessments that constitutes 30% of the total mark and a final exam which contributes the other 70%.

LEVEL: 2

SEMESTER: 2

COURSE CODE: MDSC 2403

COURSE TITLE: ENDOCRINE AND REPRODUCTION

NUMBER OF CREDITS: 6

PREREQUISITES:

CO-REQUISITES:

COURSE DESCRIPTION: Regulatory control and integration of the processes occurring in the human body are achieved by two systems - the nervous and endocrine systems. The endocrine system utilizes chemicals called hormones to transmit regulatory messages to various cells known as target cells. The hormones are recognized by specific proteins (receptors) located on or in the target cells, and the relatively weak signals, resulting from their low concentrations, are amplified thousands of times by a multi-step cascade of biochemical reactions.

Teaching strategies include Problem Based Learning (PBL), lectures, self-directed learning and hands on and / or virtual laboratory exercises and will provide the students with a detailed understanding of the normal functions of the endocrine and reproductive systems. This in turn will form a solid foundation for the comprehension and appreciation of the dysfunctions of these systems. Accordingly, the pre-clinical sciences of anatomy (including embryology and histology), biochemistry and physiology will be integrated in the study of hormonal regulation of metabolism, growth, development, adaptation to environmental changes, water and electrolyte homeokinesis and reproduction – gametogenesis, folliculogenesis, ovulation, erections, ejaculations, fertilization, pregnancy, parturition, lactation, puberty, menopause and sexual differentiation. Limited exposure to the paraclinical disciplines are included to facilitate a more holistic approach to understanding the dysfunctions.

ASSESSMENT:

Continuous assessment based on PBL, quizzes and other in-course individual and / or group assignments will contribute 30% to final marks and the final examination will contribute 70%.

LEVEL: 2

SEMESTER: 2

COURSE CODE: MDSC 2404

COURSE TITLE: MUSCLES, BONES, AND JOINTS

NUMBER OF CREDITS: 6

PREREQUISITES:

CO-REQUISITES:

COURSE DESCRIPTION: This is 6-credit course delivered over seven (7) weeks in Semester 2 of Year 2. Students will be exposed to the integrated teaching of the anatomy, biochemistry and physiology of the human locomotor apparatus. Teaching strategies include Problem Based Learning (PBL), lectures, self-directed learning and hands on and / or virtual laboratory exercises. Emphasis will be given to the study of the gross and microscopic anatomy and embryology of muscles, bones and joints, comprising the musculo-skeletal system. Functional tests for the principal muscles, the physiological and molecular basis of muscle contraction and energy sources used in the functioning of various types of muscle cells, the effect of hormones, vitamins and other factors on muscles, bones and joints will all be covered. To facilitate learning in a holistic manner, relevant topics in pathology and pharmacology are also introduced. These include the most common lesions of bones, joints and muscles, the principles of myography, drugs that act primarily on bones, skeletal muscles and neuromuscular junctions and their clinical application. This course provides a strong foundation for understanding bone, muscle and joint pathologies, in preparation for clinical medicine and treatment of diseases in a range of specialties including Orthopedics, General Surgery, Rheumatology, Neurology, Physical Medicine, Radiology and Pain Medicine.

ASSESSMENT:

Continuous assessment based on PBL, quizzes and other in-course individual and / or group assignments will contribute 30% to final marks and the final examination will contribute 70%.

LEVEL: 2

SEMESTER: 2

COURSE CODE: MDSC 2406

COURSE TITLE: RESEARCH PROJECT I

NUMBER OF CREDITS: 3 (NON GPA)

PREREQUISITES:

CO-REQUISITES:

COURSE DESCRIPTION: This segment of the student research programme involves the implementation of a project proposal developed, in Semester I, under MDSC 2407. Students will be provided with the opportunities to apply the theoretical principles of research from the proposal level to implementation of the research project in addressing health related problems. Students will be required to obtain ethics approval from the relevant authorities, collect and analyse data and submit a report.

LEVEL: 2

SEMESTER: 2

COURSE CODE: MDSC 2408

COURSE TITLE: COMMUNICATION SKILLS FOR HEALTH PROFESSIONALS

NUMBER OF CREDITS: 3

PREREQUISITES:

CO-REQUISITES:

COURSE DESCRIPTION: This Year 2 course builds upon the courses delivered in Year 1. This course is heavily skills based focusing on practically developing the communication skills required specifically related to the medical interview, dealing with difficult patients, counselling and breaking bad news. The medical interview is anchored around the Four-Habits Model in which students are taught the skills necessary for good interviewing and given the opportunity to practice with simulated patients. Students are also introduced to the role of a physician as a counsellor/coach, basic principles of counselling and the SPIKES model for breaking bad news. Again, opportunity for the development of these skills is fostered via the use of simulated patients.

ASSESSMENT:

Assessment for this course is 30% course work and 70% for the final exam both of which will assess communication competencies developed during the course.

LEVEL: 3

COURSE CODE: MDSC 3407

SEMESTER: SUMMER OF YEAR 2

COURSE TITLE: INTRODUCTORY CLINICAL CLERKSHIP IN SURGERY

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course introduces the paraclinical medical student to the practice of clinical surgery. This is a 4-week blended course designed to allow the student an opportunity to integrate previously taught professionalism, communication and basic clinical surgery. Students will be expected to take a history and perform an examination for common conditions seen in surgical practice. The course will divide the student into groups which are rotated throughout the teaching hospitals and health facilities. The aim is that the students will gain initial hands on experience and put into practice the knowledge they have gained in professionalism, communication and basic sciences. The students should be able to take a history, examine patients with proper interpretation of these findings to put forward a reasonable diagnosis.

ASSESSMENT:

Combination of formative and summative assessment. The formative assessment is in the form of a task card and the summative assessment is in the form of Multiple Choice Questions.

LEVEL: 3

COURSE CODE: MDSC 3408

SEMESTER: SUMMER OF YEAR 2

COURSE TITLE: INTRODUCTORY CLINICAL CLERKSHIP IN MEDICINE

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course introduces the paraclinical medical student to the practice of clinical medicine. This is a 4-week blended course designed to allow the student an opportunity to integrate previously taught professionalism, communication and basic clinical medicine. Students will be expected to take a history and perform an examination for common conditions seen in medical practice. The course will consist of History Taking, Examination and Basic Science Integration. Students will spend 2-weeks each in Adult Internal Medicine and Primary Care to experience both inpatient and outpatient aspects of Medicine being delivered in a team-based, multidisciplinary setting. A variety of teaching methods inclusive of bedside teachings, interactive online lectures and video learning objects demonstrating examination techniques and experiential learning will be employed that will facilitate a team based approach. Moodle/Schoology will be used for online delivery of the curriculum as interactive lectures and also facilitate assessments in the form of quizzes.

ASSESSMENT:

Continuous and final examination. This will be completion of a performance task card, online quizzes and multiple choice questions.

LEVEL: 3

SEMESTER: 1

COURSE CODE: MDSC 3401

COURSE TITLE: APPLIED PARACLINICAL SCIENCES I

NUMBER OF CREDITS: 6

PREREQUISITES:

CO-REQUISITES:

COURSE DESCRIPTION: This Year 3 ParaClinical science course focuses on the pathology of the cardiorespiratory system. It is interposed at a transition point in the training of medical students. It bridges the gap between the pre-clinical sciences and clinical training. It focuses on the pathophysiologic basis of disease, investigation and interpretation in the process of making a diagnosis, therapeutic management of diseases and finally, prevention and primary care including with psychosocial issues in disease management. The course encompasses the key subject areas of Anatomical Pathology, Haematology, Microbiology, Chemical Pathology (also known as Clinical Chemistry), Immunology, Pharmacology and Public Health and Primary Care.

Students will have opportunities to apply their understanding of pathological and pharmacological principles, as well as choosing and interpreting laboratory tests during the course. Diverse facets of Public Health such as epidemiology of disease and ethics in clinical practice will also be explored during these sessions.

The course will be delivered by lectures from the study of clinical cases using the Problem-Based Learning (PBL) methods and tutorials. Assessments will be varied and will include Progressive Disclosure Question (PDQ), Problem-Based Learning evaluation and final examination.

LEVEL: 3

SEMESTER: 1

COURSE CODE: MDSC 3402

COURSE TITLE: APPLIED PARACLINICAL SCIENCES II

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: This year 3 Paraclinical science course focuses on the pathology of the gastrointestinal and genitourinary system. It builds on concepts students were initially exposed to in MDSC 3401. It is interposed at a transition point in the training of medical students, bridging the gap between the pre-clinical sciences and clinical training. This course focuses on the pathophysiologic basis of disease, investigation and interpretation of results, making a diagnosis, therapeutic management of diseases and finally, prevention and primary care including psychosocial issues in disease management. The course encompasses the key subject areas of Anatomical Pathology, Haematology, Microbiology, Chemical Pathology (also known as Clinical Chemistry), Immunology, Pharmacology and Public Health and Primary Care.

Students will have opportunities to apply their understanding of signs and symptoms, pathological and pharmacological principles, as well as choosing and interpreting laboratory tests during the course. Diverse facets of Public Health such as epidemiology of disease and ethics in clinical practice will also be explored during these sessions.

The course will be delivered by lectures, study of clinical cases using the Problem-Based Learning (PBL) methods and tutorials. Assessments will be varied and will include Progressive Disclosure Question (PDQ), Problem-Based Learning evaluation and a final examination.

LEVEL: 3

SEMESTER: 2

COURSE CODE: MDSC 3313

COURSE TITLE: APPLIED PARACLINICAL SCIENCES III

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: The seven (7) week course covers the aetiology, patho-physiology/pathogenesis, clinical features, laboratory diagnosis, treatment and management and prevention and primary care of diseases of the endocrine organs, nervous system, musculo-skeletal system, haemato-oncology and the integument. In addition, the course also covers specified areas of Immunology and other disciplines of paraclinical sciences.

LEVEL: 3

SEMESTER: 1

COURSE CODE: MDSC 3406

COURSE TITLE: RESEARCH PROJECT II

NUMBER OF CREDITS: 3 (NON GPA)

PREREQUISITES:

CO-REQUISITES:

COURSE DESCRIPTION: The student research programme culminates with dissemination of the results at varying levels including the student and academic body, RHAs, and the general public. Students will be required to present their project findings at the Faculty Student Research Day which is designated for this purpose. Other formats include, local and regional forums, and submission to a scientific journal.

LEVEL: 3

SEMESTER: Year Long

COURSE CODE: MDSC 3404

COURSE INTEGRATED PARACLINICAL SCIENCES I

NUMBER OF CREDIT: 6

COURSE DESCRIPTION: The course is meant to prepare the students for their clinical rotations and their career as a medical doctor. The students will be taught all aspects of interacting with patients and the care of the critically ill. They will be taught the skills required to becoming a good clinician. The course will begin in Year 1 medical school and terminate in Year 3. During this period the student will be taught systematically, the skills require in dealing with patients and in the identification of clinical pathology. The approaches to teaching will make use of a combinations of teaching strategies such as didactic lectures, simulations and video based learning. Each of the years will have an end of year continuous assessment in the form of MCQs and OSCE. The course will culminate with the final OSCE examinations in year 3.

LEVEL: 3

SEMESTER: Year Long

COURSE CODE: MDSC 3405

COURSE TITLE: INTEGRATED PARACLINICAL SCIENCES II

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: This Year 3 Paraclinical sciences course consists of Clerkships/Seminars and puts emphasis on the laboratory aspects of the various disciplines taught in the Paraclinical Sciences, Anatomical Pathology, Chemical Pathology (also known as Clinical Chemistry), Haematology, Immunology, Microbiology, as well as Pharmacology seminars. Training is for a period of twenty-one (21) weeks that begins in September and ends in March of each academic year. The course is delivered in all these disciplines individually and consecutively over a four-week period. Thus, a student will start a rotation in one discipline spend four weeks and then move on to another discipline for another four weeks until all disciplines are completed. It is interposed at a transition point in the training of medical students. It bridges the gap between the pre-clinical sciences and clinical training. It focuses on the pathophysiologic basis of disease, investigation and interpretation in the process of making a diagnosis, therapeutic management of diseases. Learning objectives are covered by lectures and from the study of clinical cases laboratory experience and seminars. Students will be assessed by the various disciplines using MCQs, SAQs,

MBBS - Phase II

COURSE CODE: MEDC 4304

COURSE TITLE: ELECTIVE

COURSE DESCRIPTION: The Elective is used to get hands-on experience in a specialty of the students' choice or to complete a research project or selective programme. Electives can be completed at any teaching medical institution or practice (that accepts UWI students). **Students' electives must be approved by the Deputy Dean, Clinical Sciences, prior to commencement.** All students are required to do an Elective during Year 4 for a period of four (4).

ASSESSMENT:

At the end of the Elective, an Elective Evaluation form must be completed by the supervisor and must be returned to the Dean's Office by the student.

COURSE CODE: PECH 4001

COURSE TITLE: ETHICS AND PROFESSIONALISM IN CLINICAL HEALTH SCIENCES

COURSE DESCRIPTION: This two-credit course will be taught within the undergraduate curriculum of MBBS, offered by the Faculty of Medical Sciences, UWI, at the St. Augustine Campus during the clinical rotations of the fourth year. The lectures and sessions shall deal with major aspects of Clinical Ethics, Professionalism, Interaction with patients and relatives, while practicing clinical medicine.

Aims

The course aims at enhancing the ethical, empathetic attitudes and professionalism of the future doctors, while they are rotating through the clinical clerkships. The course will enable students to: Acquire essential knowledge and skills that will prepare them to provide clinical care services with ethics and professionalism; understand the bioethical aspects governing clinical practice; understand the concepts of human rights in general and patient rights specifically, and also physician rights and responsibilities; understand the medico-legal considerations in clinical practice; acquire skills to interact patients as well as their relatives

Teaching Strategies

The course will be delivered for two weeks through didactic lectures, my-e-learning material, case based scenario and role play. The course outcomes will be assessed by case-discussions, observation and E-portfolio.

ASSESSMENT:

Continuous assessment: (40%)

The candidates will be continuously assessed as they progress through the course. Attendance, punctuality, deportment, attitudes towards learning, active participation in discussions will be observed and marked.

Other Assessments: (60%)

Case presentation & discussion	20%
Observation of students during discussions with respect to interactions with real patients and/or Standardized Patients (SP) and the team	20%
E-portfolio	20%

DEPARTMENT OF CLINICAL MEDICAL SCIENCES

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

LEVEL: 4

SEMESTER: YR LONG

COURSE CODE: MEDC 4300

COURSE TITLE: CLINICAL MEDICINE CLERKSHIP 1

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: The Year 4 clerkship in Internal Medicine ensures that students gain exposure to General Medicine and the medical subspecialties, through a combination of inpatient and outpatient hospital encounters.

Aims

The aim of the Year 4 Internal Medicine clerkship is to prepare for entry into the final year medicine clerkship. The clerkship will reinforce basic science knowledge while allowing its application to clinical scenarios. Students will develop relevant physical examination skills in the context of the patient’s medical history and learn to devise a clinical problem list from these findings. Students will also observe, and in some cases, perform bedside or investigative skills and procedures.

Teaching Strategies

The clerkship is conducted through several means - classroom clinical analysis, clinical teaching, assignments based on clinical encounters, use of medical databases, and digital learning sources.

ASSESSMENT:

Formative assessment: It contributes 20% of the overall clerkship assessment. During the clerkship, students will be assessed by their tutors/lecturers on a daily basis with regard to their knowledge, clinical skills and professional behaviour.

Summative assessment: It contributes 80% of the overall clerkship assessment. The final clerkship examination consists of a clinical examination (OSCE) during the penultimate week of the clerkship, as well as a written examination which contributes 40% each of the overall assessment.

All students must meet the attendance requirements and must pass OSCE, written exam and overall clerkship assessment to complete the Clinical Medicine Clerkship 1 successfully.

LEVEL: 4

SEMESTER: YR LONG

COURSE CODE: MEDC 4301

COURSE TITLE: CHILD HEALTH CLERKSHIP 1

PREREQUISITES: SUCCESSFUL COMPLETION OF ALL BASIC HEALTH SCIENCES COURSES

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: The junior Paediatric clerkship is designed to introduce students to the principles and practice of paediatric medicine, history-taking and physical examination of children of different ages. This is achieved through a combination of clinical experience, tutorials, self-directed learning and skills training. This course is vertically aligned with the year 5 course.

Aims

The year 4 clerkship aims to equip the student to recognise a normal child from birth to adolescence and symptoms and signs of common paediatric conditions. In addition, students are taught to obtain a complete medical history, perform a physical examination, arrive at an informed diagnosis and create a problem-list. Students will also acquire certain technical skills and become familiar with certain procedures commonly performed on paediatric patients. Students will be taught to understand the social and familial environment of childhood problems. All students must develop a professional and caring attitude toward children in their care and communicate effectively with the family.

Teaching Strategies

During this clerkship, students will attend interactive lectures and tutorials on common and serious paediatric conditions. Learning is also achieved through bedside teaching, ward rounds and experiential learning in clinics and during on-call. There will also be skills-training sessions on key life support and technical skills required in paediatrics. Students will be required to prepare selected topics for seminars that are pertinent to the clinical areas being covered and will have access to online learning resources through myelearning.

ASSESSMENT:

Formative assessment: During the clerkship, students will be assessed on their knowledge, clinical acumen, level of participation and professional behaviour by their clinical tutors and lecturers and given feedback.

Summative assessment: (i) Continuous component: This score is taken from your group seminar mark, Mini-CEX assessments and Clinical assessor reports. These carry 20% of your clerkship mark. (ii) An online written exam is conducted at the end of the clerkship and contributes to 40% of your mark. (iii) The End of clerkship Objective Structured Clinical Examination (OSCE) carries 40% of your mark.

Students must meet the attendance requirements and are required to pass BOTH the OSCE and the written paper to pass the clerkship.

COURSE CODE: MEDC 4302

COURSE TITLE: COMMUNITY HEALTH 1 CLERKSHIP

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This six (6) week clerkship introduces students to primary care medicine. It covers a range of common medical topics/issues encountered in general practice. A key component of this course is the application of patient centred care through the patient centred clinical method. Clinical epidemiology will also be stressed throughout this rotation and the practice of evidence medicine will be encouraged. Throughout the clerkship, students experience learning through different methods. These include lecture, group presentation, online (Moodle post), role play and case discussion. Assessment modes include attendance, observation, casebook assessment, online post assessment, Objective Structured Clinical Examination (OSCE), Multiple Choice Questions (MCQs) and Extended Matching Questions (EMQs).

Aims

The primary aim of the clerkship is to develop the knowledge, skills and attitudes required for the provision of safe, evidence-based and holistic primary health care as part of the overall responsibility for community health.

Teaching Strategies

Throughout the clerkships, students will attend a series of sessions covering topics of importance to general practice. The mode of delivery is blended (Face to Face & Online) and includes lectures, interactive tutorials and student presentations. Students will also have the opportunity to attend a general practice or health centre, where they will participate in the assessment and management of problems commonly seen in family practice. Students will also have an opportunity to participate in health promotion and disease prevention initiatives. Students will be exposed to communication skills training through a series of simulated scenarios. The student has access to a wide variety of online resources through the myelearning website.

ASSESSMENT:

Formative assessment: Global assessment - Students will be assessed on attendance, in-course assignments and a case-book. Presentations/Group work - This comprises presentations made at the end of the clerkship.

Summative assessment at the end of the clerkship.

COURSE CODE: MEDC 4303

COURSE TITLE: PSYCHIATRY CLERKSHIP

NUMBER OF CREDITS: 8

COURSE DESCRIPTION: A holistic approach to the practice of medicine requires an understanding in the doctor that illness has interacting biological, psychological and sociocultural aspects that influence the course and outcome of any disease. The Psychiatry clerkship orients medical students to the biopsychosocial approach to medicine, and equips them with the knowledge and skills in psychiatry that are essential for effective practice as a medical practitioner.

Aims

The goal of the Psychiatry clerkship is to provide students with the knowledge and clinical experiences that will enable them to recognize the biological, psychological and socio-cultural determinants of psychiatric illnesses and know how they interact. The student should be able to diagnose the common psychiatric disorders encountered in general medical practice, and be conversant with the principles of management and the techniques of treatment in psychiatry.

Teaching Strategies

Students will learn about the common conditions encountered in psychiatry practice and the common approaches to management of these conditions through a series of lectures and tutorials throughout their clerkship, using a case-based approach. During the clerkship, students are engaged in role play of common psychiatric disorders and objective structured clinical assessments. Clinical teaching is conducted on ward rounds in a psychiatric ward of a general hospital, at the psychiatric hospital, and at hospital-based and community-based out patients' clinics. Students are expected to clerk patients and keep a clinical record of the patients they have seen. They will also take calls with the on call psychiatrist when on duty. Students also participate in journal club sessions and post-graduate psychiatry seminars

ASSESSMENT:

Formative assessment: Students are required to present or submit diagnostic formulations and/or case histories on patients that they have interviewed. These are used for the continuous assessment of, and feedback to students. Students found to be performing unsatisfactorily will be expected to engage in additional clinical work or follow any other course of action deemed suitable by lecturers. Students with incomplete task cards will be required to engage in remedial work, to ensure adequate clinical exposure before a passing grade can be issued for the clerkship.

Summative assessment: The final grade in Psychiatry is determined by the ongoing assessment during the clerkship (including the case write up submitted by the student and the student's attendance, punctuality and deportment) this accounts for 20% (Case Portfolio and Mini-CEX). There is also an end of clerkship examination which students must pass to have successfully complete the clerkship. This examination includes an OSCE examination (40%) and a written examination (MCQ 40%). Students must meet the attendance requirements and are required to pass **BOTH** the OSCE and the written paper to pass the clerkship.

LEVEL: 5

SEMESTER: YR LONG

COURSE CODE: MEDC 5300

COURSE TITLE: CLINICAL MEDICINE CLERKSHIP 2

PREREQUISITE: SUCCESSFUL COMPLETION OF YEAR 4 COURSES

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: This clerkship will reinforce the work done in Clinical Medicine 1 with an emphasis on the subspecialties and management. This will be mainly achieved via experiential learning with clinical scenarios and case studies with additional interactive lectures, group activities and direct learning to online resources. Students will develop relevant physical examination skills in the context of the patient's medical history and learn to devise a clinical problem list from these findings and to guide further management.

Aims

The primary aim of the Year 5 Internal Medicine clerkship is that student should have the proficiency level of a competent medical intern thus demonstrating competence in history taking, examination, devising an appropriate differential diagnosis, appropriate medical documentation and performance of certain medical procedures. The student should also utilize a team based approach and maintain a professional approach to patients and stakeholders in the care of the patient

Teaching Strategies

The clerkship is delivered through an apprentice system where the student functions as a member of the medical team, bedside teaching, clinical case studies, experiential, and interactive group activities Students will also have access to an online learning platform that employs a direct and indirect learning approach to supplement the on the ward experience.

ASSESSMENT:

Formative assessment: During the clerkship students are given feedback on the histories and bedside examinations. They would also be quizzed on management of cases. Their level of team based management and professional demeanour is critiqued by other health team members and lecturers.

Summative assessment:

- 20% Continuous assessment which includes submission of case documentations on patients that they have interviewed, team based assessment on professionalism and group assignment.
- 40% Written Assignment
- 40% Objective Structured Clinical Examination (OSCE)

The student must meet the attendance requirements and must pass both the written component and the OSCE along with an overall pass to have passed the course.

LEVEL: 5

SEMESTER: YR LONG

COURSE CODE: MEDC 5301

COURSE TITLE: CHILD HEALTH CLERKSHIP II

PREREQUISITES: SUCCESSFUL COMPLETION OF YEAR 4 COURSES

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: This 6-week clerkship builds upon the foundation skills of history taking and examination acquired in Year 4. It allows the rehearsal of these skills, while focusing on the formulation of a rational, informed differential diagnosis and logical management plans of common conditions seen in Child Health. It thus prepares the student for the workplace as qualified doctors. It achieves these goals by rotating through the different clinical areas and well as ongoing assessment and feedback on the acquisition of these skills.

Aims

The principle aim of the course is to prepare you for competent medical practice with children and families in a variety of settings, and for you to appreciate the network of services which exist to support children and young people in health and illness. In addition, this clerkship will allow students to develop a professional and caring attitude toward children in their care, while working in a multidisciplinary team.

Teaching Strategies

The clerkship derives from the apprenticeship model in which students are expected to immerse themselves and participate in all aspects of patient care as part of the team. This is achieved through teaching ward rounds, bedside teaching, online shared learning case discussions and outpatient clinics. Curriculum delivery is supplemented with interactive case-based seminars and online materials.

ASSESSMENT:

- Formative assessment: During the clerkship students will be assessed and provided with feedback continuously on their knowledge, clinical acumen, level of participation and professional behaviour.
- Summative assessment: The clerkship is assessed by three mechanisms: (i) continuous assessment (20% of the final mark) based on miniCEXes and Tutor Assessment Reports; (ii) a written component (40% of the final mark); and (iii) a clinical component/OSCE (40% of the final mark).

Students must meet the attendance requirements and must pass both the written and clinical components to pass the clerkship.

COURSE CODE: MEDC 5302

COURSE TITLE: COMMUNITY HEALTH II - PUBLIC HEALTH

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: This is a six-week clerkship which covers the major subspecialties of Public Health. This clerkship is delivered through didactic lectures, learning by doing, self-directed learning and practical sessions. Students are assessed through continuous assessment and an end of clerkship examination.

Students will learn and apply knowledge in the areas of quality in health care, epidemiology, surveillance, maternal and child health, non-communicable diseases and communicable diseases.

Aim

The primary aim of the course is to sensitize, educate and train medical undergraduates in Public Health. Students will learn the strategies involved in primary prevention with particular emphasis on health education and protection, secondary prevention with special emphasis on screening for chronic non-communicable diseases and disease management according to established guidelines in the community setting.

Teaching Strategies

A mixture of methods will be employed – didactic, learning by doing, self-directed, learning and practical exercises.

ASSESSMENT:

The course will be assessed through continuous assessment and an end of clerkship examination

DEPARTMENT OF CLINICAL SURGICAL SCIENCES

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

LEVEL 4

COURSE CODE: MEDC 4330

COURSE TITLE: OBSTETRICS & GYNAECOLOGY CLERKSHIPS 1

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: This 8-week course introduces students to the clinical aspect of Obstetrics and Gynaecology. They would be able to interact with patients, observe surgeries and perform minor clinical procedures. During the course of the clerkship, students would learn how to take a proper history, perform an Obstetric and Gynaecological examination and interpret basic lab investigations in order to achieve differential diagnoses.

Aims:

The course primarily aims at teaching the basic knowledge of common Obstetrics and Gynaecology conditions together with demonstrating the basic skills needed to manage these common conditions. The clerkship focuses on sensitizing students to the nature and basics of Obstetrics and Gynaecology. Focus is also placed on department and professionalism

Teaching Strategies:

This clerkship is delivered through face-to-face didactic lectures and tutorials; clinical, ward and operation theatre sessions.

ASSESSMENT:

- Formative Assessment: Throughout the clerkship, students are required to complete a sign of sheet of various tasks to be observed or performed. They are required to do at least one PowerPoint presentation on an assigned topic as well as submit one case report on any case of their interest. They are also assessed on their reliability, department and overall professionalism in the clinical setting.
- Summative Assessment: At the end of the clerkship, students are given a written exam and an OSCE. The written exam would comprise of MCQS, EMQs and SAQs. The OSCE would be in the form of a picture slide show with questions.

COURSE CODE: MEDC 4340

COURSE TITLE: GENERAL SURGERY CLERKSHIPS (1)

NUMBER OF CREDITS: 8

COURSE DESCRIPTION:

The Junior Clerkship - MEDC 4340

During this period the student will be expected to develop a strong foundation in General Surgery. A progression of topics is introduced during the eight weeks, which are divided into two blocks of four weeks at the Port-of-Spain and San Fernando General Hospitals and at the Eric Williams Medical Sciences Complex. Students are assigned to individual firms for participation in ward rounds, operating theatre sessions, outpatient clinics and emergency duty. They will begin to assume limited clinical responsibility for the care of patients.

The first block introduces the following subjects:

- Pre-operative preparation; operative etiquette;
- Post-operative care
- Fluid and electrolyte balance
- Body surface lesions
- Wound care; principles of wound healing
- Abdominal wall and groin hernias
- Surgical infections

During the second block, the student is introduced to:

- The acute abdomen—diagnosis and management
- Surgical pathology of malignant lesions; diagnosis and management

Seminars will be conducted on common urological problems on a weekly basis. Topics will include haematuria, renal calculi and urinary retention.

During the junior rotation, weekly sessions on Accident and Emergency Medicine will also be conducted. Tutorials will include problem-based learning sessions and clinical skills training on:

- Trauma resuscitation
- Management of the head injured
- Early management of burns

- Abdominal trauma
- Shock; haemorrhage and transfusion
- Basic life support; basic airway management; basic cardiac resuscitation

During both clinical years, the student will be required to keep a surgical case book of the cases in whose management (s)he has participated. (S)he will also need to get documentation of a series of procedures listed in the log book. The individual entries will have to be signed off by the tutor(s). An end of clerkship assessment is done by written and/or oral examination.

LEVEL 5

COURSE CODE: MEDC 5331

COURSE TITLE: OBSTETRICS & GYNAECOLOGY CLERKSHIPS 2

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: This 6-week course reemphasizes the basics of what was learnt in the junior Obstetrics and Gynaecology clerkship (MEDC 4330). However, it focuses on a more detailed approach to the management of Obstetrics and Gynaecological cases; and also introduces more complexed, rarer topics. They are expected to be able to interact more confidently with patients, observe surgeries and perform minor clinical procedures.

Aims:

The course aims at making the student competent to manage as a medical intern in Obstetrics and Gynaecology. These clerkships also serve as a foundation for postgraduate training in Obstetrics and Gynaecology.

Teaching Strategies: This clerkship is delivered through face to face didactic lectures and tutorials; clinical, ward and operation theatre sessions.

ASSESSMENT:

Formative Assessment: Throughout the clerkship, students are required to complete a sign of sheet of various tasks to be observed or performed. They are required to do at least one PowerPoint presentation on an assigned topic as well as submit one case report on any case of their interest. They are also assessed on their reliability, deportment and overall professionalism in the clinical setting.

Summative Assessment: At the end of the clerkship, students are given a written exam and an OSCE. The written exam would comprise of MCQS, EMQs and SAQs. The OSCE would be in the form of a picture slide show with questions (OSCE 1) as well as clinically oriented stations with real and simulated patients (OSCE 2).

COURSE CODE: MEDC 5339

COURSE TITLE: GENERAL SURGERY CLERKSHIPS (1)

NUMBER OF CREDITS: 8

The Senior Clerkship - MEDC5339

The final year includes a number of rotations in disciplines encountered in the junior year as well as exposure to the major sub-specialties. The new rotations include Anaesthetics and Intensive Care, Orthopaedics, Ophthalmology, Otorhinolaryngology and Paediatric Surgery.

In addition, attendance at clinico-pathological presentations and conferences is meant to facilitate a deeper, more comprehensive understanding of the relationship of pathological processes to the symptoms and signs of disease states.

The fifth year programme is intended to:

1. Consolidate and refine the objectives outlined in Year 4 of problem-solving in a clinical setting.
2. Create a deeper understanding of the patho-physiology of disease and facilitate a comprehensive knowledge of Pathology/Microbiology, Immunology and their relationship to symptoms and physical signs, in continuation of the process begun in Year 4.
3. Promote an understanding of the epidemiology and pathogenesis of disease processes, and how these may interact with the patient, his/her relatives and the community.
4. Foster the acquisition of the skills necessary for predicting, recognising and hopefully preventing the progression of a disease process and its complications.
5. Develop a more comprehensive insight into the relevance of investigations of disease processes, and the use of possibly predicting the outcome of a disease process. It is imperative that students become fully aware of the value

and limitations of clinical and laboratory investigations in obtaining an overview and understanding of a disease process and its final outcome.

6. Induce knowledge of the pharmacological basis for the treatment and management of disease. Students will be taught the therapeutic interventions considered necessary in the treatment of disease. Students will also be expected to acquire a working knowledge of the essential drugs used in the management of the major disease processes and the therapeutic models of intervention. They will be expected to know and understand such concepts as absorption - bioavailability, distribution, selective uptake and methods of degradation and routes of elimination of drugs and their metabolites etc.
7. Emphasise an awareness of the interdependence of the various disciplines in Clinical Medicine on each other, and their close relationships. Students should be able to recognise that the development of divisions such as Medicine, Surgery etc., is purely arbitrary and hence, must learn early to recognise the interdependence of disciplines (departments) on each other in achieving optimum management of the patient as a whole person.
8. Enable the student to recognise and understand the impact of the disease on the patient physically, psychologically and economically, and to be able to advise the patient and his/her relatives about the prognosis and final outcome of a particular disease process and how it may modify the patient's ability to function both now and in the future.

ASSESSMENT:

During both clinical years, the student will be required to keep a surgical case book of the cases in whose management (s)he has participated. (S)he will also need to get documentation of a series of procedures listed in the log book. The individual entries will have to be signed off by the tutor(s). An end of clerkship assessment is done by written and/or oral examination.

An in-training evaluation will be submitted by each tutor at the end of each rotation for each student. An end of clerkship assessment will take place at the end of both the Year 4 and Year 5 rotations. This may involve an MCQ, an Objective Structured Clinical Examination (OSCE) and/or an oral examination. This assessment may be used in determining the student's eligibility to write the final examination and to achieve a passing grade. A student whose evaluation is unsatisfactory may be required to undergo a course of remedial training.

Neurosurgery

Description: The teaching in this specialty begins in the junior clinical year and continues in the final year. The student is exposed to bedside teaching, small group tutorials and formal lectures in Neurological Surgery.

ASSESSMENT:

The student will receive ongoing assessment based on performances during the tutorials. Some questions on the specialty will be included in the end of clerkship examination.

Paediatric Surgery

Description: This course is introduced during the final year clerkships. The student is expected to attend weekly outpatient clinical sessions at the Eric Williams Medical Sciences Complex and take part in case presentations and discussions. Attendance at weekly grand rounds on the surgical wards is encouraged. An overview of the specialty is included in the annual lecture series.

The aim of this course is to build on the knowledge of general surgery and paediatrics acquired during the fourth year rotation. The student is helped to understand the pathophysiology, diagnosis and principles of management of common and important surgical conditions that occur in infants and older children. Several areas of overlap exist within the programmes in paediatric medicine, general surgery and some of the other surgical sub-specialties.

At the end of the clerkship, the student will be expected to be able to identify, describe and discuss the pathophysiology and management of common paediatric surgical conditions such as:

- Masses, cysts and fistulae of the head and neck
- Benign body surface tumours
- Hernias, hydrocoeles and undescended testes
- The acute scrotum
- Non-acute and acute abdominal pain
- Congenital abnormalities of the genito-urinary system.

In addition, the student will be expected to demonstrate a detailed knowledge of the following topics peculiar to the specialty:

- Neonatal surgical conditions
- Congenital pyloric stenosis
- Meckel's diverticulum
- Intussusception
- Hirschsprung's disease
- Solid tumours of infancy and later childhood

ASSESSMENT:

During both clinical years, the student will be required to keep a surgical case book of the cases in whose management (s)he has participated. (S)he will also need to get documentation of a series of procedures listed in the log book. The individual entries will have to be signed off by the tutor(s). An end of clerkship assessment is done by written and/or oral examination.

A clerkship assessment will be incorporated in the end of clerkship assessment in general surgery during the fifth year. This will include some questions in the MCQ, Short Answered Questions, OSCE and oral assessments.

COURSE CODE: MEDC 5341

COURSE TITLE: ORTHOPAEDICS SURGERY CLERKSHIP

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The Orthopaedic surgery clerkship is a one month rotation which takes place during the final year of medical school. During the clerkship students gain clinical exposure through interaction with patients on the ward rounds, operating theatres and in clinics. Students are also exposed to a variety of teaching opportunities throughout the clerkship.

Aims

The goal of this rotation is to give the student a well-rounded, thorough introduction to orthopaedics and the sub-specialties therein.

Teaching Strategies

Lectures are delivered in accordance with the timetable and cover a variety of important topics. Students are required to prepare topics for discussion at tutorial sessions. Students are also expected to attend hospital grand rounds. Clinical teaching is done at the bedside, in clinics and during on call duties. Students are also encouraged to read widely utilizing the recommended texts.

ASSESSMENT:

Formative assessment: Continuous assessment of students' clinical skills, attendance, professional behaviour and participation in the clerkship takes place throughout the clerkship. All tutors are part of this assessment process.

Summative assessment: An end of clerkship examination is held on the last day of the rotation at the Port of Spain General Hospital. The End of Clerkship summative assessment comprises an 8 station OSCE, and a written paper consisting multiple choice and extended matching questions.

COURSE CODE: MEDC 5342

COURSE TITLE: OTOLARYNGOLOGY (E.N.T. SURGERY) CLERKSHIP

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This clerkship lasts six weeks and exposes students to the spectrum of conditions of the ear, nose and throat that are encountered in normal medical practice. Throughout the period the students are involved in all aspects of Otolaryngology practice.

Aims

The aim of this clerkship is to ensure that the students learn how to obtain a full history, perform a thorough head and neck examination and adequately manage common Ear, Nose & Throat (ENT) disorders.

Teaching Strategies

Students attend lectures covering the major ENT topics and these lectures are also available on the myelearning website. As part of the clinical teaching, students are allowed to clerk and examine patients in the Out-Patient Clinics and discussions are held about their findings and management of the patients. Students also visit the operating theatre to observe a variety of surgical procedures.

ASSESSMENT:

Formative assessment: Students are assessed on their performance during the clerkship, and are required to keep a log book, which includes attendance at tutorials and clinical sessions as well as performance and/or observation of specific clinical skills.

Summative assessment: At the end of the clerkship students are assessed by means of a written exam and a slide quiz exam.

COURSE CODE: MEDC 5343

COURSE TITLE: OPHTHALMOLOGY CLERKSHIP

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The purpose of this rotation is to familiarize the student with the diagnosis and treatment of common disorders of the eye and adnexae as well as orbital and neuro-ophthalmic disorders. The student will be taught to measure visual acuity and the use of charts to test visual acuity. The use of the direct ophthalmoscope will be reviewed and reinforced. This is a six (6) week programme concurrent with otorhinolaryngology.

Aims

The clerkship aims to introduce the students to core clinical cases in Ophthalmology, in particular: cataract, diabetic retinopathy, hypertensive retinopathy, primary open angle glaucoma (POAG), relative afferent pupillary defect (RAPD), central retinal vein occlusion (CRVO), branch retinal vein occlusion (BRVO), central retinal artery occlusion (CRAO), branch retinal artery, occlusion (BRAO), retinal emboli, macular degeneration, papilloedema, optic atrophy, squint, cranial nerve palsies, ptosis, hemianopic visual field defects, thyroid eye disease (TED)

Teaching Strategies

Students will attend weekly classroom lectures and clinical teaching will involve visits to operating theatres and out-patient clinics. Students are expected to read about conditions they see in the clinic and operating theatre as well as those ophthalmic conditions they may not have seen during the clerkship. Myelearning is also used.

ASSESSMENT:

Formative assessment: Students' clinical skills, professional behaviour and knowledge will be assessed throughout the clerkship.

Summative assessment: Oral examination (viva); written examination (multiple choice and extended matching questions)

COURSE CODE: MEDC 5344

COURSE TITLE: ANAESTHESIA AND INTENSIVE CARE CLERKSHIP

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This clerkship provides an introductory overview of Anaesthesia, Intensive Care & Pain Management Aims

The anaesthetic and ICU clerkship aims to impart knowledge regarding perioperative and critical care medicine leading to high quality patient care with a humane approach. It also aims to inculcate research and development in the specialty of Anaesthesia, Intensive Care and Pain Management.

Teaching Strategies

Clinically oriented, problem-based learning tutorials are held throughout the clerkship. The students are expected to observe and perform several clinical procedures under the supervision of specialist anaesthetists. Clinical exposure is obtained through sessions in the operating theatres, Intensive Care Unit, emergency on-call duty and outpatient clinics. Students are expected to document different cases which they assisted in anaesthesia during the clerkship. Students are also assessed and graded for their BLS and ACLS skills. Students are required to work in teams on case reports which will be presented and graded during the last week of the clerkship.

ASSESSMENT:

Formative assessment: A final evaluation grade will be assigned for the clerkship which includes considerations for attendance, reliability, factual knowledge, approach to clinical problems and deportment, work sheet, case presentation, CPR skills. An overall quantitative score is given.

Summative assessment: The written paper will include Multiple Choice Questions, Extended Matched Questions and Short Answer Questions. All these together will constitute a quantitative score. A final combined grade of these assessments will be given for the clerkship.

BSC OPTOMETRY

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

LEVEL: 1

SEMESTER: 1

COURSE CODE: OPTM 1011

COURSE TITLE: HUMAN ANATOMY AND PHYSIOLOGY

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: Gross anatomy. Histology of tissues. Cellular functions. Respiration and body temperature control. Gastrointestinal activity. Nerves and muscular physiology and neuromuscular transmission. Body fluid control and kidney. The cardiovascular system and blood. Anatomy and physiology of the endocrine system. Brain, neuroanatomy and neurophysiology. Principles of neurotransmission. Sensory receptors. Anatomy and physiology of the autonomic nervous system.

Practical: A course of laboratory practical work consistent with the outline syllabus

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 1

SEMESTER: 1

COURSE CODE: OPTM 1012

COURSE TITLE: GENERAL PATHOLOGY AND MICROBIOLOGY

NUMBER OF CREDITS: 4

COURSE DESCRIPTION:

General Pathology of the human body and body systems.

Microbiology: Overview of the microbial world. Structure and function of microbes and their nutritional and physiological requirements. The role of the human commensal microflora. Introduction to microbial diseases. Introduction to bacterial genetics and gene transfer. Sterilization and disinfections.

Practical: A course of laboratory practical work consistent with the outline syllabus

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 1

SEMESTER: 1

COURSE CODE: OPTM 1031

COURSE TITLE: INTRODUCTION TO THE OPTOMETRY PROFESSION

NUMBER OF CREDITS: 2

PREREQUISITES:

COURSE DESCRIPTION: Understanding Optometry as a health care profession. Relationship of the profession to others in the eye care field including Ophthalmology, opticianry. Opportunities available to the Optometrist as a professional. Attitudes needed for the study and practice of optometry. A general knowledge the legal status, standards of practice, professional conduct and associations. Introduction to Optometric terms, instrumentations and literatures. Optometry in America, Asia, Africa, Australia, Europe and the Caribbean.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	40%

LEVEL: 1

SEMESTER: 1

COURSE CODE: OPTM 1041

COURSE TITLE: PURE OPTICS

NUMBER OF CREDITS: 3

PREREQUISITES:

COURSE DESCRIPTION: The nature and propagation of light. Laws of reflection and refraction. Diffraction and interference. Power, vergence and the Dioptre. Effectivity. Image formation. Reflection and refraction. The prism. The thin lens and cardinal points. Thick lens theory.

Practical Classes: Ray tracing to investigate reflection at plane and curved surfaces. Ray tracing to investigate refraction. Optical bench methods for finding the focal length of thin positive and negative lenses. Newton's Rings. Astigmatic imaging. Principal points of a thick lens. Telephoto Lens Systems Variation of focal length of a lens system with separation of the components.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 1

SEMESTER: 1

COURSE CODE: OPTM 1051

COURSE TITLE: VISION

NUMBER OF CREDITS: 3

PREREQUISITES:

COURSE DESCRIPTION: OPTM 1051 is the first course in a series delving into the anatomical construction of the visual system and physiology of vision. This course will concentrate upon anatomical, physiological and optical aspects of perception of various visual attributes such as color vision. Overview of eye and vision. Evolution of eye. Rods and cones. Spectral sensitivity.

Practical: A course of laboratory practical work consistent with the outline syllabus

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 1

SEMESTER: 1

COURSE CODE: OPTM 1061

COURSE TITLE: LEARNING AND KEY SKILLS DEVELOPMENT

NUMBER OF CREDITS: 3

PREREQUISITES:

COURSE DESCRIPTION: Learning and Communication Skills. Use of learning resources. Basic communication skills for academic work and optometric practice. Communication with patients. Basic numeracy. Functions and graphs. Algebraic manipulation of equations. Trigonometry and geometry. Applications of mathematics in optometry. Presentation of data in tables and graphs. Information Technology: Computer literacy; Microsoft Office Applications; Word, Excel.

Practicals/Tutorials: Special Laboratory and Tutorial Classes

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical/Tutorial Coursework:	20%

LEVEL: 1

SEMESTER: 1 & 2

COURSE CODE: OPTM 1062

COURSE TITLE: INTRODUCTORY BIOCHEMISTRY

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: Introduction, aims and relevance. Definitions and basic structural and functional features of lipids, amino acids, proteins, carbohydrates, nucleotides, nucleic acids. Enzymes including essential functions, factors affecting their activity and regulation. Carbohydrate metabolism: glycolysis (definition, physiological role, overall pathway, fates of pyruvate & lactate); glycogen storage and mobilisation, including hormonal control; gluconeogenesis. Citric acid (Krebs') cycle: its location, physiological function and relation to other pathways, and its overall pathway; electron transport chain & generation of ATP. Fat metabolism: adipose tissue storage including hormonal control, fatty acid oxidative metabolism and synthesis. Gene expression including transcription and translation; mechanisms of hormone action including signal transduction systems; visual signal transduction (the visual cycle). Overview of drug metabolism. Overview of integration of metabolism.

Practical: A course of laboratory practical work consistent with the syllabus outline.

ASSESSMENT:

One 3 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 1

SEMESTER: 2

COURSE CODE: OPTM 1032

COURSE TITLE: INTRODUCTION TO CLINICAL OPTOMETRY

NUMBER OF CREDITS: 2

PREREQUISITES:

COURSE DESCRIPTION: Retinoscopy and Subjective Refraction Retinoscopy. Astigmatism. Retinoscopy on patient. Distance visual acuity measurements. Subjective monocular refraction: best vision sphere. Interpupillary distance. Jackson crossed-cylinder. Fan and Block. Clinical Accommodation. Development of refractive errors. Auto refractors. Refractive Surgeries. Direct and Indirect Ophthalmoscopy. Spherical ametopia.

Practical Clinical Sessions: Lab orientation. Direct Ophthalmoscopy. Model eye retinoscopy. Retinoscopy, visual acuity and mean sphere subjective. Interpupillary distance. Retinoscopy, visual acuity, mean sphere and Jackson cross-cyl. Retinoscopy, visual acuity, mean sphere and Fan & Block. Accommodation. Putting it all together.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 1

SEMESTER: 2

COURSE CODE: OPTM 1042

COURSE TITLE: VISUAL OPTICS

NUMBER OF CREDITS: 3

PREREQUISITES:

COURSE DESCRIPTION: Simplified and reduced eyes. Myopia, hypermetropia and astigmatism. Axial and refractive ametropias. Retinal image size. Aniseikonia, spectacle and relative spectacle magnification. Ocular aberrations. Instruments and techniques in eye examination. Low vision aids. Introduction to viscometer. Accommodation-convergence. Aphakes and pseudophakes. Resolution in the eye. Optical and retinal/neural considerations. Application of thick lens theory to moderate to high power prescriptions. Visual ergonomics: illumination studies.

Practical Classes: Field of view with direct and indirect ophthalmoscopes. Accommodation, ametropia and back vertex distance.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 1

SEMESTER: 2

COURSE CODE: OPTM 1052

COURSE TITLE: PERCEPTION

NUMBER OF CREDITS: 3

PREREQUISITES:

COURSE DESCRIPTION: Students will develop an appreciation of the spatial aspects of vision, such as the basis of depth perception, contrast sensitivity, and their relationship to visual acuity and clinical implications. They are expected to conduct research on the temporal aspects of vision, such as critical flicker frequency and motion perception, as well as their neural pathways and implications in a diverse array of ocular and neurological disorders.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 1

SEMESTER: 2

COURSE CODE: OPTM 1071

COURSE TITLE: ANATOMY OF THE EYE & RELATED STRUCTURES

NUMBER OF CREDITS: 3

PREREQUISITES:

COURSE DESCRIPTION: Introduction to ocular anatomy and physiology. Ocular surface (cornea, sclera, conjunctiva), Vascular structures (choroid, ciliary body, iris). Aqueous humour (formation, flow and drainage). Crystalline lens. Control of pupil and accommodation. Neural structures (retina, optic nerve).

Practical: A course of laboratory practical work consistent with the outline syllabus

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 1

SEMESTER: 2

COURSE CODE: OPTM 1072

COURSE TITLE: PHYSIOLOGY OF THE EYE & RELATED STRUCTURES

NUMBER OF CREDITS: 3

PREREQUISITES:

COURSE DESCRIPTION: Ocular adnexa (eyelids, lacrimal apparatus). Bones of the skull (including orbit). Extraocular muscles. Cranial nerves. Visual pathways. Embryology of the eye.

Practical: A course of laboratory practical work consistent with the outline syllabus

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 2

SEMESTER: 1 & 2

COURSE CODE: OPTM 2011

COURSE TITLE: CLINICAL OPTOMETRY AND COMMUNICATION SKILLS

NUMBER OF CREDITS: 6

PRE-REQUISITES: OPTM 1031 AND OPTM 1032

CO-REQUISITES: NONE

COURSE DESCRIPTION: Introduction to Phoropters. Binocular Balancing. Case History. Pupil Assessment. Differential Diagnosis (distance/near vision blur, sudden visual loss, diplopia, headache). Near VA. Presbyopia & Near Refraction. Examining the Elderly Patient. Professional communication skills. The patient-oriented interview. Listening skills. Non-verbal communication. Delivering bad news. Building patient rapport. Building patient compliance. Patient education Staff communications. Clinical diagnosis and Bayes theorem. Prescribing and counselling.

Practical Clinical Sessions: Direct ophthalmoscopy refresher. Using a Phoropter. Binocular Balancing. Case History taking. Pupil Assessment. Case histories, refraction and ophthalmoscopy. Clinical assessments. Then: Alternate between full and complete examination of volunteer patients in the Eye Clinic and practicing basic optometric techniques. Case history using a variety of 'mock' patients. Volunteer patient examinations to concentrate on case history taking and communication skills. Videotape of full eye examination for subsequent critical appraisal of communication skills.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Clinical Assessment at the end of Semester 1:	20%
Clinical Assessment at the end of Semester 2:	20%

LEVEL: 2

SEMESTER: 1

COURSE CODE: OPTM 2021

COURSE TITLE: GENERAL PHARMACOLOGY

NUMBER OF CREDITS: 3

PRE-REQUISITES: OPTM 1071 AND OPTM 1072

CO-REQUISITES: NONE

COURSE DESCRIPTION: General principles of pharmacology and Toxicity, Autocoid agents and antagonist, Drugs affecting the respiratory system, Gastrointestinal agents, Antimicrobial agents, Antiviral and Antinoplastic agents. Immunopharmacological agents, Anti-inflammatory agents, General and Local Anaesthetics, major drugs acting on the endocrine system, major drugs acting on the kidney, Toxicology, drugs use and metabolism in pregnancy and breast feeding. Autonomic pharmacology. Selected examples of pathology in the cardiovascular and central nervous systems. General pharmaceutical term, drug nomenclature and related prescription writing.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 2

SEMESTER: 1

COURSE CODE: OPTM 2042

COURSE TITLE: OCULAR PATHOLOGY AND IMMUNOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION:

Ocular Pathology: This course brings the student to the facts regarding diseases of the eye, including congenital acquired deformities. The lectures are presented in good details to give the student a well-rounded understanding of the basic causes, symptoms and signs, pathology, prognosis, treatment and prevention of the eye diseases the Optometrist is likely to meet. Included under the course diffuse diseases of the eye and sequelae; diseases and abnormalities of the external eye and adnexa, conjunctiva, cornea and sclera.

Immunology: Antigens, antibodies, T-cells, B-cells, cytokines, hypersensitivity, tolerance, transplantation and graft rejections (mechanism) autoimmunity, Tumor immunology and Immunological tests.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 2

SEMESTER: 1

COURSE CODE: OPTM 2051

COURSE TITLE: PHYSIOLOGY OF VISION AND PERCEPTION II

NUMBER OF CREDITS: 3

PRE-REQUISITES: OPTM 1051 AND OPTM 1052

CO- REQUISITES: NONE

COURSE DESCRIPTION: Methods for studying visual perception - an introduction. Visual psychophysics - stimuli, responses and procedures. The limits of vision - detection and discrimination. Binocular vision - fusion, rivalry and sensitivity. Binocular vision - disparity, stereopsis and space perception. Visual processing - receptive fields, channels and streams. Colour perception - normal and abnormal. Visual search and attention. Visual ergonomics: Visual tasks and standards.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 2

SEMESTER: 1

COURSE CODE: OPTM 2072

COURSE TITLE: OPHTHALMIC LENSES AND DISPENSING

NUMBER OF CREDITS: 3

PRE-REQUISITES: OPTM 1041 AND OPTM 1042

CO-REQUISITES: NONE

COURSE DESCRIPTION: Bifocal, trifocal and multifocal lenses. Review of thick lens theory as applied to moderate to high power prescriptions. Best form lens theory. Near vision effectivity in spherical and astigmatic prescriptions. Trial case lenses. Aspheric lenses. Tints and coatings. Frame materials.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Practical Coursework:	40%

LEVEL: 2

SEMESTER: 2

COURSE CODE: OPTM 2102

COURSE TITLE: LOW VISION AND AGEING

NUMBER OF CREDITS: 3

PREREQUISITES: OPTM 1031 AND OPTM 1032

CO-REQUISITES: NONE

COURSE DESCRIPTION: Physiology and pathological changes with ageing, ocular and vision changes in the normal and in the visually handicapped patient. Physiological aspects of ageing and low vision. Clinical assessment of low vision. Prescribing low vision aids. Low vision prescribing in private practice. The multidisciplinary nature of low vision rehabilitation.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 2

SEMESTER: 2

COURSE CODE: OPTM 2022

COURSE TITLE: OCULAR PHARMACOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: Pharmacology of the major classes of ocular drugs. Processes of general pathology. Diagnostic stains, drugs used in diagnostics and therapeutics. Ocular drugs and contact lens solutions used in primary optometric care. The laws pertaining to the supply and use of ocular drugs.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 2

SEMESTER: 2

COURSE CODE: OPTM 2031

COURSE TITLE: VISUAL AND OCULAR ASSESSMENT – TECHNIQUES AND INSTRUMENTATION

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: Slit lamp biomicroscopy and goldmann tonometry, age-related cataract, anterior uveitis, gonioscopy, primary open-angle glaucoma, vitreo-retinal disease, age-related maculopathy, congenital and juvenile ocular disease and abnormality.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 2

SEMESTER: 2

COURSE CODE: OPTM 2061

COURSE TITLE: ASSESSMENT OF BINOCULAR

NUMBER OF CREDITS: 3

PREREQUISITES: OPTM 1051 AND OPTM 1052

CO- REQUISITES: NONE

COURSE DESCRIPTION: Spatial localization. Development of binocular vision. The vergence system. Classification of ocular deviations. Measurement of heterophoria. The AC/A ratio. Measurement of convergence. Fixation disparity. The Mallett units. Prism adaptation. Ocular motility; Stereoscopic Vision; Clinical Assessment of Stereopsis; Anisometropia & Aniseikonia; Heterophoria: Investigation and Evaluation; Horizontal Deviations; Vertical Deviations; Accommodation Anomalies; Treatment Theories; Management of Heterophoria.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 2

SEMESTER: 2

COURSE CODE: OPTM 2082

COURSE TITLE: CONTACT LENS PRACTICE I

NUMBER OF CREDITS: 3

PREREQUISITES: OPTM 1041 AND OPTM 1042

CO-REQUISITES: NONE

COURSE DESCRIPTION: The principles involved in correcting the eye with a contact lens are considered in relation to factors like lens power magnification, accommodative effort, effects on binocular vision. Thick lens theory is used to illustrate how contact lenses are used to correct both spherical and astigmatic corrections. The back surface geometry of modern contact lens designs is considered in order to illustrate the fitting relationship between the contact lens and the cornea. The short and long term consequences of contact lens wear on the anatomy and physiology of the anterior eye are considered. Practical classes are conducted in contact lens fitting principles.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 2

SEMESTER: 1

COURSE CODE: OPTM 2092

COURSE TITLE: CLINICAL METHODOLOGY AND STATISTICS

NUMBER OF CREDITS: 3

PRE-REQUISITES: NONE

CO-REQUISITES: NONE

COURSE DESCRIPTION: Defining basic concepts. Description: Data, graphs and summary statistics. Probability and distribution - basic principles. Estimation of population means and proportions - confidence intervals, normal and T-distributions. Differences - introduction to hypothesis tests. Associations - correlation and regression. Clinical measurement - measurement error; precision and reliability. Basic epidemiology - indices, study types, odds and risks, randomized controlled trials. Detecting disease - normal or abnormal? Clinical screening - sensitivity, specificity, ROC analysis. Monitoring disease - detecting change.

ASSESSMENT:

One 2 hr. examination at end of module: 60%

Two in course exams: 20%

Practical Coursework: 20%

LEVEL: 3

SEMESTER: 1

COURSE CODE: OPTM3011

COURSE TITLE: OCULAR & SYSTEMIC DISEASE I

NUMBER OF CREDITS: 3

PREREQUISITES: OPTM 1011, OPTM 1012, OPTM 1071, OPTM 1072, OPTM 2021, OPTM 2022, OPTM 2031, OPTM 2042

CO-REQUISITES: NONE

COURSE DESCRIPTION: Diabetic Eye Disease. Hypertensive Eye Disease. Secondary glaucomas. Retinal vascular disease. AIDS related diseases. Funduscopy with non-contact high plus lens, Gonioscopy

ASSESSMENT:

One 2 hr. examination at end of module: 60%

Two in course exams: 20%

Practical Coursework: 20%

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: OPTM 3021

COURSE TITLE: GENERAL CLINICAL PRACTICE

NUMBER OF CREDITS: 6

PREREQUISITES: OPTM 2031

CO-REQUISITES: NONE

COURSE DESCRIPTION: Particular attention is paid to patient/practitioner interaction, clinical decision-making, differential . diagnosis, case analysis and difficulties in prescribing and counselling.

ASSESSMENT:

General Clinical and Dispensing Station Examinations: 60%

Submission of Case Records/ Log books: 20%

Two (2) Clinical Diagnosis and Recognition Coursework Examinations: 20%

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: OPTM 3031

COURSE TITLE: ADVANCED CLINICAL PRACTICE

NUMBER OF CREDITS: 6

PREREQUISITES: OPTM 1012, OPTM 2031, OPTM 2042, OPTM 2061, OPTM 2082

CO-REQUISITES: NONE

COURSE DESCRIPTION: Binocular Vision and Orthoptics. The description, classification and evaluation of binocular vision anomalies. Taking a good case history. Communication and clinical approaches with children. The practical management of heterophoria and strabismus. Contact Lens Practice. Prospective contact lens patients will be assessed for suitability. Suitable patients will be fitted with the most appropriate type of lenses. Existing wearers will be given full after-care checks. Visual Impairment. Full case records will be taken. Ocular Pathology. Experience of ocular abnormality and pathology gained from patient material provided for the hospital visits.

ASSESSMENT:

Clinical Assessment Station Examinations and case record submissions in binocular vision: 30%
Clinical Assessment Station Examinations and case record submission in contact lens practice: 30 %
Two (2) Clinical Diagnosis and recognition Coursework Examinations, one per semester - 20% x 2 (40%)

LEVEL: 3

SEMESTER: 1

COURSE CODE: OPTM 3072

COURSE TITLE: LAW & OPTOMETRIC MANAGEMENT

NUMBER OF CREDITS: 3

PRE-REQUISITES: NONE

CO-REQUISITES: NONE

COURSE DESCRIPTION: An overview of the development of the profession of optometry and the current state of the optical market. An introduction to setting up a practice and the key elements in running a successful business including a business plan, marketing strategy, effective communication and basic accounting. An introduction to Trinidad and Tobago law, particularly the laws of contract, tort and negligence and the way they impact optometrists. A detailed look at Opticians Act and other legislation regulating the profession, the professional bodies and professional standards and the rules regarding disciplinary action. Optometry within the National Health Service/ Regional Health Authorities and the current and future roles of Optometry in provision of health care. The course will also include details on referral and case record keeping, employment law vocational vision standards and safety spectacle requirements. Visual ergonomics: Ocular hazards and control.

ASSESSMENT:

One 2 hr. examination at end of module: 80%
Two in course exams: 20%

LEVEL: 3

SEMESTER: 1

COURSE CODE: OPTM 3051

COURSE TITLE: BINOCULAR VISION & ORTHOPTICS

NUMBER OF CREDITS: 3

PREREQUISITES: OPTM 2061

CO-REQUISITES: NONE

COURSE DESCRIPTION: The development of normal binocular vision and the consequences of its abnormal development. The nature, investigation and management of motor and sensory adaptations to squint. Classification and management of concomitant strabismus and its optometric management. Introduction to nystagmus and neuro-ophthalmology. Paediatric optometry: managing the child patient, children's tests.

ASSESSMENT:

One 2 hr. examination at end of module: 60%
Two in course exams: 20%
Practical Coursework: 20%

LEVEL: 3

SEMESTER: 1

COURSE CODE: OPTM 3061

COURSE TITLE: CONTACT LENS PRACTICE II

NUMBER OF CREDITS: 3

PRE-REQUISITES: OPTM 2082

CO-REQUISITES: NONE

COURSE DESCRIPTION: The process of assessing the suitability of any prospective patient for contact lenses is considered with reference to the possible anatomical and physiological changes induced by contact lens wear. The procedures adopted in fitting lenses along with techniques required for adequate aftercare are covered. The different lens types, materials and designs are compared, particularly in relation to the advantage or disadvantage of the wearer. The short- and long-term consequences of contact lens wear are considered, with particular emphasis on the ocular response to the wearing of the various lens types. The added complication of RGP, toric, bifocal and multifocal contact lenses is also covered.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: OPTM 3082

COURSE TITLE: RESEARCH PROJECT

NUMBER OF CREDITS: 6

PRE-REQUISITES: NONE

CO-REQUISITES: NONE

COURSE DESCRIPTION: Initial lectures will explain to the students what is required of them in this module. These lectures will clarify the required format for the research report/dissertation; cover basic research methodology and outline suitable routes for information retrieval. Students will then either be allotted or asked to choose from research projects/dissertation titles forwarded by individual members of staff. Once members of staff have been allocated students, they will convey information relevant to the students' needs by use of seminar or personal tuition or directed reading. Students should collate and study works relevant to their own research area throughout the semester. Students involved in research projects should carry out pilot experiments to ensure project viability. In the case of Research Projects, students will be introduced to experimental techniques and analysis of the data obtained. Findings will be compiled in an appropriate scientific style including Abstract, Introduction, Methods, Results and Discussion. For dissertations, a comprehensive literature survey will be conducted. A summary and critical analysis of previous research in the relevant subject area will be undertaken.

ASSESSMENT:

5000 – 10,000 word research report or dissertation to be submitted no later than week 12 of Semester 2: 100%

LEVEL: 3

SEMESTER: 2

COURSE CODE: OPTM 3012

COURSE TITLE: OCULAR & SYSTEMIC DISEASEII

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: Neuro-ophthalmology. Thyroid Eye Disease. Posterior uveitis. Tumors of the orbit. Retinal Dystrophies. Binocular Indirect ophthalmoscopy with scleral depression. Dilation and Irrigation. Goldmann 3-Mirror funduscopy.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 3

SEMESTER: 2

COURSE CODE: OPTM 3041

COURSE TITLE: VISUAL ERGONOMICS

NUMBER OF CREDITS: 3

PRE-REQUISITES: OPTM 1012, OPTM 2031, OPTM 2042, OPTM 2051, OPTM 2082

CO-REQUISITES: NONE

COURSE DESCRIPTION: Illumination Studies: Photometric definitions and units. Light sources and measurement. Illumination of the optometric examination. Interior lighting design. Industrial, commercial, domestic and street lighting. Directional effects of lighting. Luminaries. The Munsell colour system, Colour coding

Visual Tasks and Standards: Effect of variation in characteristics of the visual task and environment on visual efficiency. Visual task analysis. Principles of screening for diseases. Visual screening of children. Industrial vision screening. Visual assessment for employment. Vision and driving. Visual standards for industry, public service, military and police operations.

Ocular Hazards and their Control: Prevalence of accidents involving the eye. Quantifying visual impairment. Effects of visible, ultra-violet and infra-red radiation on the eye. Eye protection and safety equipment. OSHA Act (T&T). Protection of Eyes Regulations.

ASSESSMENT:

One 2 hr. examination at end of module:	60%
Two in course exams:	20%
Practical Coursework:	20%

LEVEL: 4

SEMESTER: YEAR LONG

COURSE CODE: OPTM 4021

COURSE TITLE: PRIMARY EYE CARE CLINICAL EXTERNSHIP

NUMBER OF CREDITS: 8

PRE-REQUISITES: OPTM 3021 AND OPTM 3031 AND Pass Mark in OSCE

COURSE DESCRIPTION: This course is designed for optometric students who have already mastered the skills and knowledge in OPTM 3021 and OPTM 3031 and demonstrated passing clinical competencies of the OSCE, but need further experience and expertise prior to independent professional optometric practice. Students conduct patient examinations in a primary eye care setting under supervision of registered optometry faculty members, registered optometrists and registered ophthalmology consultants. They will detect, diagnose, treat and/or refer refractive conditions, visual system disorders. They will actively participate in professional grand rounds, journal reviews, case reports and advanced ophthalmic techniques. Students will review and discuss patient data leading to proper clinical diagnosis, treatment or referral and patient management. This clinical course will emphasize integration of knowledge gained in didactic courses with clinical examples. Students will further be assessed through direct and indirect methods such as; practical and clinical exams, case study analysis and comprehensive examinations.

ASSESSMENT

Skills testing:	20%
Patient examination in a clinical setting:	20%
Log book:	20%
Case reports:	20 %
CCs:	20%

LEVEL: 4

SEMESTER: YEAR LONG

COURSE CODE: OPTM 4022

COURSE TITLE: PAEDIATRIC AND BINOCULAR VISION EXTERNSHIP

NUMBER OF CREDITS: 6

PRE-REQUISITES: OPTM 3021 AND OPTM 3031 AND Pass Mark in OSCE

COURSE DESCRIPTION: Paediatric and Binocular Vision Externship is a year-long supervised clinical experience via externships in primary eye care to be conducted at the walk-in clinic of the Optometry Department at UWI and professional settings in the region. Students conduct paediatric patient examinations in a clinical setting under supervision of registered optometry faculty members, registered optometrists and registered ophthalmology consultants. They will detect, diagnose, treat and/or refer refractive conditions and visual system disorders with emphasis on various binocular disorders and paediatric anomalies. They will actively participate in professional grand rounds, journal reviews, case reports and advanced ophthalmic techniques. Students will review and discuss patient data leading to proper clinical diagnosis, treatment or referral and patient management. Students will develop treatment plans for functional vision disorders and carry out appropriate vision therapy methodologies to enhance cognitive and clinical skills. . Students will be assessed through direct and indirect methods such as; practical and clinical exams, case study analysis and comprehensive examinations.

ASSESSMENT:

Log book: 20%

Case Study reports: 20%

CCs: 20%

One 2-hour paper on the Assessment and Management of adults and /or children with Binocular Vision Anomalies at the end of the module: 40%.

LEVEL: 4

SEMESTER: YEAR LONG

COURSE CODE: OPTM 4023

COURSE TITLE: CORNEA AND CONTACT LENS EXTERNSHIP

NUMBER OF CREDITS: 6

PRE-REQUISITES: OPTM 3021 AND OPTM 3031 AND Pass Mark in OSCE

COURSE DESCRIPTION: Students conduct contact lens examinations in a clinical setting under supervision of registered optometry faculty members, registered optometrists and registered ophthalmology consultants. They will detect, diagnose, treat and/or refer refractive conditions and visual system disorders with emphasis on cornea and contact lenses. They will actively participate in professional grand rounds, journal reviews, case reports and advanced ophthalmic techniques. Students will review and discuss patient data leading to proper clinical diagnosis and assessment of associated anterior segment diseases with prescription and management of patient's requiring various specialty contact lenses and management of corneal complications. Students will employ appropriate contact lens modalities to enhance cognitive and clinical skills. Students will be assessed through direct and indirect methods such as; practical and clinical exams, case study analysis and comprehensive examinations.

ASSESSMENT:

Log book: 20%

One 2-hr examination at the end of the module: 40%

Case Study reports: 20%

CCs: 20%

LEVEL: 4

SEMESTER: YEAR LONG

COURSE CODE: OPTM 4024

COURSE TITLE: LOW VISION EXTERNSHIP

NUMBER OF CREDITS: 4

PRE-REQUISITES: OPTM 3021 AND OPTM 3031 AND Pass Mark in OSCE

COURSE DESCRIPTION: Low Vision Externship is a year-long supervised clinical experience via externships in primary eye care to be conducted at the walk-in clinic of the Optometry Department at UWI and professional settings in the region. Students conduct low vision patient examinations in a clinical setting under supervision of registered optometry faculty members, registered optometrists and registered ophthalmology consultants. They will detect, diagnose, treat and/or refer refractive conditions and visual system disorders with emphasis on various visual impairments. They will actively participate in professional grand rounds, journal reviews, case reports and advanced ophthalmic techniques. Students will review and discuss patient data leading to proper clinical diagnosis, treatment or referral and patient management. Students will enhance their cognitive and clinical skills by developing treatment plans based on the patient's needs and specialized testing for maximizing best remaining vision by using vision enhancing devices and patient education. This clinical course will emphasize integration of knowledge gained in didactic courses with clinical examples. This course will further be assessed through the use of practical and clinical examinations, also comprehensive examinations.

ASSESSMENT:

Log book:	20%
One 2-hour examination at the end of the module:	40%
Case Study reports:	20%
CCs:	20%

LEVEL: 4

SEMESTER: YEAR LONG

COURSE CODE: OPTM 4031

COURSE TITLE: MEDICAL, SURGICAL AND PUBLIC HEALTH CLINICAL EXTERNSHIP

NUMBER OF CREDITS: 8

COURSE DESCRIPTION: Medical/Surgical Clinical Externship is a year-long supervised clinical experience via externships in medical/surgical eye care to be conducted at eye clinics in various public hospitals. Students will conduct diagnosis and management of ocular medical/surgical patients. They will perform pre and post-operative care, evaluation and management of patients with systemic ocular health anomalies and ocular medical conditions. Students will observe medical and surgical eye care. Students will work in various eye clinics in the public hospital environment under supervision of registered optometry faculty members, registered optometrists and registered ophthalmology consultants. They will actively participate in professional grand rounds, journal reviews, case reports and advanced ophthalmic techniques. Students will review and discuss patient data leading to proper clinical diagnosis, treatment or referral and patient management. Students will enhance their cognitive and clinical skills by developing treatment plans based on the patient's needs and appropriate specialized testing. This clinical course will emphasize integration of knowledge gained in didactic courses with clinical examples. Students will be assessed through direct and indirect methods such as; practical and clinical exams, case study analysis and comprehensive examinations.

ASSESSMENT:

Log book:	20%
Case Study reports:	20%
CCs:	20%
A two to three-hour paper on the Diagnosis and Management of Ocular Pathologies:	40%

LEVEL: 4

SEMESTER: YEAR LONG

COURSE CODE: OPTM 4041

COURSE TITLE: CURRENT TOPICS IN PRACTICE MANAGEMENT, LAW, ETHICS AND OCCUPATIONAL HEALTH

NUMBER OF CREDITS: 4

PRE-REQUISITES: OPTM 3072 AND OPTM 3041

COURSE DESCRIPTION: Current topics in Practice Management, Law and Ethics and Occupational Health is a two (2) semester course with clinical eye care experience via externships combined with UWI lecture/seminar sessions and a field trip in Occupational Health Safety and lecture seminar sessions in field trip in Business Practice and Communication, Jurisprudence and Ethical Considerations. Current Topics in Practice Management, Law, Ethics and Occupational Health requires experience in professional peer seminar sessions and direct patient care in the public hospital and/or health centre environment and private sector eye care.

The clinical element of this course consists of students conducting a variety of patient eye examinations under supervision of registered optometry faculty members, registered optometrists and/or registered ophthalmology consultants. They will detect, diagnose, treat and/or refer refractive conditions and visual system disorders. Students will enhance their cognitive and clinical skills by reviewing and discuss patient data leading to proper clinical diagnosis, treatment or referral and patient management. Students will enhance their cognitive and clinical skills by developing treatment plans based on the patient's needs. This clinical experience will emphasize assessing methodologies for best management of professional optometric practice consistent with the laws and ethical morays prevailing in Trinidad and Tobago in particular, the Caribbean region in general and with awareness of worldwide optometry standards.

Students will actively participate in a series of professional grand rounds and seminars with a variety of appropriate guest lecturers. Students will prepare reviews of existing case studies/ problem-based learning (PBL) for presentation and examination on relevant topics with peers and appropriate professionals in the seminars. Students will further be assessed through case study analysis and final examinations.

ASSESSMENT:

A two (2) hour paper summarizing and explaining extrapolated understandings of the interrelation of legal law and the ethical practice of optometry in Trinidad and Tobago in particular and the Caribbean region in general on Law and Practice Management at the end of the module: 50%
Case studies on practice management, law, ethics and occupational health in seminars: 40%
Case study/PBL presentation and seminar participation: 10%

SCHOOL OF DENTISTRY

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

DDS – Years 1 & 2

LEVEL: 1

SEMESTER: 1 & 2

COURSE CODE: DENT 1601

COURSE TITLE: BASIC DENTAL SCIENCES

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: DENT 1601, Basic Dental Sciences is a non-elective course that forms part of the Year 1 program in Dentistry. The purpose is to introduce first year Dental Students to develop over the next four (4) years. During the first semester as part of the Oral Biology course students cover lectures in tooth morphology. These are accompanied by laboratory sessions wherein the students develop hand-skills by carving various teeth with all morphological features in blocks of wax. During the second semester students will be introduced to the high and slow speed handpieces and the phantom head workstations. They will perform various laboratory exercises aimed at familiarizing them with the equipment. They will also engage in various exercises designed to introduce them to the hand skills required in Operative Techniques, as well as Prosthetic Dentistry and Crown and Bridge (2nd, 3rd and 4th year classes respectively). This provides the student with a range of experiences which awaken them to the nature of the work to be covered in the next five years. It is a non-elective course and must be completed by all Dental Students during their first year.

LEVEL: 2

SEMESTER: 2

COURSE CODE: DENT 2602

COURSE TITLE: HEAD & NECK ANATOMY

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course aims to consolidate information taught in the various Phase IA blocks to provide an understanding of the detailed 3-dimensional structure of the head and neck region that is so important to dentists. The Anatomy Unit conducts the course using tutorials and practical demonstrations. Teaching is supported within the School using interactive CD-ROM programmed learning.

LEVEL: 1&2

SEMESTER: 1 & 2

COURSE CODE: DENT 2603

COURSE TITLE: ORAL BIOLOGY

NUMBER OF CREDITS: 7

COURSE DESCRIPTION: Oral Biology includes tooth morphology, oral anatomy & embryology, oral histology, oral physiology and oral biochemistry. The course offers study of the gross and microscopic structure of all the components that participate in the stomatognathic system. Physiological and biochemical aspects are included. The embryological development of the face and oral cavity, teeth and associated structures are traced from conception. These studies form the basic concepts of normal structure and function that enable deviations representing oral and dental disease to be studied in later courses of oral pathology and oral medicine. Understanding growth and the establishment of occlusion through the childhood to the permanent adult dentition is fundamental to future studies of child dental health (paediatric and preventive dentistry) and the correction of malocclusions (orthodontics). The course involves lectures and laboratory sessions.

LEVEL: 2

SEMESTER: 2

COURSE CODE: DENT 2604

COURSE TITLE: PRECLINICAL OPERATIVE DENTISTRY

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This integrated course provides theoretical, laboratory and clinical experience of the basic principles of restorative dentistry including conservation, periodontology, removable prosthodontics and dental technology. The preparation and restoration of teeth with amalgam and tooth-coloured materials is practiced in both laboratory and clinical settings. The course gives special attention to the biological aspects involved in the restoration of teeth, with emphasis on preservation of the vital tooth tissue plus prevention and maintenance of the health of the supporting oral tissues. Particular reference is made to the selection of appropriate restorative materials and this cross-references with DENT 2605 (Dental Materials Science). Diagnosis and treatment planning in restorative dentistry is introduced in lectures, seminars and clinics. A special sub-unit of operative dentistry for children is included along with an introduction to orthodontics. Another special sub-unit includes the preclinical laboratory in periodontology. This course must be successfully completed prior to the commencement of supervised patient management in the clinics.

LEVEL: 2

SEMESTER: 2

COURSE CODE: DENT 2605

COURSE TITLE: DENTAL MATERIALS SCIENCE

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: Knowledge of the behaviour and properties of dental materials used clinically and in the laboratory, enables appropriate choice of materials and their correct handling to give optimal results for an individual patient's care. Basic physical and chemical properties and the influence these have upon the mechanical and clinical handling properties of dental materials in current use are explored. This course is intended to comprehensively cover the materials used in everyday clinical dental practice and to give the dental student a thorough understanding of the materials used in the laboratory in the fabrication of indirect restorations. This course content will be delivered mainly via in-class lectures and PBL sessions where student participation is mandatory. Completion of practical tasks, such as, manipulation of specific restorative materials and placement into prepared cavities or handling of laboratory materials will simultaneously take place in the Preclinical Operative Dentistry (DENT 2604) and Preclinical Prosthodontics I (DENT 2606).

LEVEL: 2

SEMESTER: 2

COURSE CODE: DENT 2606

COURSE TITLE: PRECLINICAL PROSTHODONTICS

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: Preclinical Prosthodontics is part of the series of preclinical preparation courses. The purpose of this course is to introduce the student to the basic principles of removable partial prosthodontics. They will learn the fundamentals of nomenclature, classification, survey/design, and mouth preparation along with the basic sequence of treatment as it relates to the construction, delivery and maintenance of an RPD.

LEVEL: 2

SEMESTER: 2

COURSE CODE: DENT 2607

COURSE TITLE: PRECLINICAL PERIODONTOLOGY

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: Pre-Clinical Periodontology is a laboratory-based introduction to periodontology prior to the start of clinical training in periodontology. Foundation concepts of periodontal health and disease will be initially discussed through Problem based Learning (PBL) sessions. The importance of Periodontal Screening through the Basic Periodontal Examination (BPE) and the necessity for Full Mouth Examination to identify patients at risk and those in need for treatment will be emphasized. The course introduces Full Mouth Plaque Scoring (FMPS) and Oral Hygiene methods. Students should not underestimate the importance of this aspect in periodontal treatment and should be able to apply the various oral hygiene aids for specific patient needs. The various hand instruments and powered instruments used in the mechanical debridement shall be demonstrated. Emphasis will be on the appropriate instrumentation technique and opportunity to practice on Phantom Head Jaws will be afforded to each student. Maintenance and sharpening of instruments will also be covered to ensure proper and efficient instrument use.

LEVEL: 2

SEMESTER: 2

COURSE CODE: DENT 2608

COURSE TITLE: PRECLINICAL PAEDIATRIC DENTISTRY

NUMBER OF CREDITS: 1

COURSE DESCRIPTION: Preclinical Paediatric Dentistry is a preparatory course for the specialty of Paediatric Dentistry. Paediatric Dentistry is the practice, teaching of and research in the comprehensive preventive and therapeutic oral care of children from birth to adolescence, including those with special health care needs (Defined by European Academy of Paediatric Dentistry.) Paediatric dentistry comprises disciplines such as behaviour management, care of medically compromised and disabled patients, supervision of orofacial growth and development, caries prevention, sedation and General anaesthesia. This preclinical operative course in Paediatric Dentistry is one of the taught/ laboratory courses in the Child Dental Health Unit. The course is organized as face-to-face lectures and laboratory sessions over one semester. It teaches students about the differences between primary and permanent dentition and the various restorative techniques and materials used in children. The students are given lectures, followed by demonstrations with the use of experiential learning tools which imitate "real life" clinical conditions in dentistry. These include patient stimulation devices such as heads, jaws, teeth and clinical environments.

DDS – Year 3

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3601

COURSE TITLE: DENTAL PUBLIC HEALTH

NUMBER OF CREDITS: 1

COURSE DESCRIPTION This course explores the development of appropriate attitudes, awareness and sensitivity to oral health care and service provision as a public health measure. The characteristics and scope of dental public health activities along with the principles of epidemiology and biostatistics in assessing the oral and dental health care needs of a community are discussed. Dental public health research techniques are explained. The application of managerial skills to optimally utilise auxiliary personnel to achieve high quality, evidence-based oral health care is considered.

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3602

COURSE TITLE: INTRODUCTION TO CLINICAL DENTISTRY

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: Introduction to Clinical Dentistry is a paraclinical course designed to equip the students with the basic knowledge, skills and attitudes to begin seeing patients on the Adult, Paediatric, Emergency and Oral diagnosis and Special Needs Clinics. The course encompasses a variety of disciplines. The course comprises of lectures, online learning, laboratory demonstrations, skills lab sessions and clinical sessions and has a total of 2 credits. It fits with the mission of the department in producing competent dental practitioners of an international standard.

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3603

COURSE TITLE: PERIODONTOLOGY I

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: Periodontology I initiates the formal clinical training in Periodontology during year 3. This is a two (2) credit course that satisfies the mission statement of training competent dentists who are able to examine, diagnose and treat periodontal disease. This course is an essential part of dental education, and it is a core subject that affords a better understanding of clinical practice of Periodontology. DENT 3603 reinforces knowledge and skills introduced in the pre-clinical year and exposes the student to non-surgical therapy in Periodontology. Exposure to the concept of periodontal examination, diagnosis, prognosis and treatment planning is undertaken. Students are introduced to basic academic knowledge related to aetiology, pathogenesis, epidemiology of disease as well as concepts of supportive periodontal therapy and risk assessment. Clinical aspects of Full Mouth Plaque Scoring, Basic Periodontal Examination and Full Periodontal Examination will be covered early on as an introduction to clinical activity. Continuous and Final Assessment in conjunction with a final short answer quiz will contribute to the final mark for DENT 3603.

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3604

COURSE TITLE: FIXED PROSTHODONTICS I

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: Fixed Prosthodontics I is a vital part of the undergraduate curriculum due to growing public awareness of the need for dental health, general practitioners are being called on increasingly for fixed prosthodontic services. Fixed prosthodontics is the science and art of restoration of missing and mutilated teeth by fabrication of fixed or fixed –removable restorations to restore a state of oral health and function. The clinical parameters range from restoration of the occlusal or incisal surface of single teeth through the coordination of related treatments to the final reconstruction of the dentition.

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3605

COURSE TITLE: ENDODONTICS I

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: Endodontics incorporates the study and practice of the basic and clinical sciences of the biology of the healthy dental pulp and the causes, diagnosis, prevention and treatment of diseases and injuries of the dental pulp along with associated peri-radicular conditions. Endodontology is that branch of dental science concerned with the study of the form, function and health of, injuries to and diseases of the dental pulp and peri-radicular region, and their treatment. The aetiology and diagnosis of dental pain and disease are integral parts of endodontic practice.

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3606

COURSE TITLE: OPERATIVE DENTISTRY I

NUMBER OF CREDITS: 1

COURSE DESCRIPTION: Operative (Conservative) Dentistry involves the restoration of tooth structure and function following the ravages of dental caries (decay), trauma, tooth wear or correction of developmental defects. Topics include preventive aspects and cariology, pulpal injuries and therapy, crown & bridge, root canal therapy (endodontics) and cosmetic dentistry, including the use of veneers. Extra-coronal and intra-coronal restoration of teeth using tooth coloured materials, ceramics and precious or semi-precious metals are studied and practised.

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3607

COURSE TITLE: REMOVABLE PROSTHODONTICS I

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: Removable Prosthodontics I is the second part of the series of Preclinical Removable Prosthodontic preparation courses. The purpose of this course is to introduce the student to the basic principles of removable partial prosthodontics.

The course will address the treatment of patients requiring a Complete Denture (CD). Students will acquire the knowledge and skills to diagnose and treatment plan patients requiring Complete Dentures. They will learn the fundamentals of Nomenclature, Classification of edentulous ridges, Oral anatomy in relation to complete denture prosthodontics, Principles of complete denture prosthodontics, and the clinical and laboratory procedures required for the fabrication of a Complete Denture. They will also become proficient in the preparation of all work authorizations for this process required by the dental laboratory.

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3608

COURSE TITLE: ORTHODONTICS I

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: Orthodontics 1 is a three (3) credit course and is concerned with facial growth; development of the dentition and occlusion; the diagnosis, and, where appropriate, interception and/or treatment of occlusal anomalies. The course is organized into didactic lectures, tutorials/case studies, seminar-based teaching, online activities, some directed self-learning, laboratory sessions and you will have a structured exposure to patients on clinics over three academic years. Semester 1 will cover topics such as, Introduction to Orthodontics, Aetiology of malocclusion, Growth and Development, Class1, 11 division 1, 11 division 11, 111 and Bimaxillary Protrusion, Interceptive Orthodontics, Risks and Benefits, Records and Analysis. Semester 2 will cover Orthodontic Assessment, Anchorage, Cephalometrics, Anterior Open Bite, Stability Relapse and Retention, Fixed Appliances.

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3609

COURSE TITLE: PAEDIATRIC DENTISTRY I

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: Paediatric Dentistry considers the differences between the dental treatment of children compared with that of adults. The dynamic and continuous changes in the dentition and occlusion of children, due to growth and development are studied. The approach to the behavioural management of the normal and disabled child dental patient is also examined in detail. Early childhood caries including its aetiology, diagnosis, sequelae, prevention and management will be studied. Preventive techniques such as oral hygiene instruction, dietary analysis, fluoride use and fissure sealant therapy are also discussed. Management includes paediatric local anaesthesia, restorative and endodontic treatment options. The course is supported with clinical and laboratory experience.

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3610

COURSE TITLE: HUMAN DISEASE (GENERAL MEDICINE, GENERAL SURGERY)

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: General Medicine and Surgery are important aspects to understand for the safe and appropriate management of dental patients who have general systemic disease. This includes awareness of how general medical and surgical conditions affect the choice of treatment or medications that a dental patient may require. Study of general Clinical Pathology and Clinical Microbiology form the basis for future studies of Oral Pathology, Oral Medicine and Oral Surgery as well as providing an understanding of the known mechanisms underlying the systemic diseases studied. Clinical pharmacology is an important component within this course. Prescribing drugs for dental patients, who are already taking medications for some medical reason, must avoid adverse drug reactions occurring or interference with the patient's background medical management. The consequences of such interactions may be life threatening for the patient and result from incompetent management of a relatively less important dental related problem. Dentists must also be able to detect signs of undiagnosed medical disease in their patients. This skill must rely upon recognition of such signs from the exposed parts of a dental patient's body that are normally visible during a dental consultation. The course is delivered using a combination of lectures, seminars, ward rounds and clinical/ laboratory sessions.

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3620

COURSE TITLE: RESTORATIVE DENTISTRY CLERKSHIP I

NUMBER OF CREDITS: 7

COURSE DESCRIPTION: The Restorative Dentistry Clerkship provides the student dental clerks with opportunities at the Adult Polyclinic to integrate and synthesize their knowledge, skills and attitudes towards the management of patients with diseases of the teeth and their supporting structures.

Key components of this rotation are the rehabilitation of the dentition to functional and aesthetic requirements of the individual in five areas of restorative dental care: Operative Dentistry, Periodontology, Endodontics and Fixed & Removable Prosthodontics. Students, through the completion of this clerkship rotation, will be exposed to dental laboratory procedures including the impact of these procedures on the clinical situation.

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3630

COURSE TITLE: CHILD DENTAL HEALTH CLERKSHIP 1

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: Child Dental Health Clerkship 1 provides the dental student with an introduction to the knowledge, skills and attitudes required to develop the necessary competencies towards the management of paediatric patients with diseases of the teeth and their supporting structures. Key components of this clerkship are the assessments (including orthodontic) of the paediatric patient and the ability to perform preventive therapies and simple restorative treatment. Students, through the completion of this clerkship rotation, will be exposed to restorative and orthodontic dental laboratory procedures including the impact of these procedures on the clinical situation

LEVEL: 3

SEMESTER: 1 & 2

COURSE CODE: DENT 3640

COURSE TITLE: ORAL DISEASE CLERKSHIP 1

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: The Oral Diseases Clerkship-Year 3 provides the student dental clerks with opportunities at the Emergency/ Oral diagnosis/ Medicine/ Radiology and Oral and Maxillofacial Surgery clinic to integrate and synthesize their knowledge, skills and attitudes towards the management of patients with diseases of the teeth and their supporting structures. Key components of this clerkship are the observation and management of adult patients with acute dental conditions or chronic oral diseases, eliciting thorough histories and head and neck examinations, conducting relevant radiographic and special test investigations, developing differential diagnoses and treating simple oral surgical cases by delivering local anaesthesia and performing simple extractions.

DDS – Year 4

LEVEL: 4

SEMESTER: 1, 2 & 3

COURSE CODE: DENT 4601

COURSE TITLE: DENTAL PUBLIC HEALTH II

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: Dental Public Health is the science and art of preventing and controlling oral diseases and promoting oral health through organized community efforts. The aim of this course is to enable students to view oral health in a broader context than is provided in the purely clinical patient-oriented disciplines as well as from national, regional and international perspectives. Political, economic and ethical considerations play a significant role in the provision of dental care for communities in need and in the implementation of effective public health programmes. Dental professionals should be aware of the various issues that influence the decision-making process with regard to the oral health care in populations.

LEVEL: 4

SEMESTER: 1, 2 & 3

COURSE CODE: DENT 4602

COURSE TITLE: GERODONTOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: Gerodontology is a three (3) credit course and is taught in an integrated manner such that the principles and knowledge acquired can be appropriately applied in the holistic management of patients attending the Special Needs Dental Clinic, Emergency dental health clinic and the Polyclinic as well as to dental problems in the wider community. Students are taught several dental management issues of aging adults and persons with medically compromised conditions and disabilities. Using problem-solving skills, the student will be able to provide comprehensive oral health care to the aged adult and those with special needs.

LEVEL: 4

SEMESTER: 1, 2 & 3

COURSE CODE: DENT 4603

COURSE TITLE: ORAL PATHOLOGY

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: Oral Radiology studies the use and interpretation of imaging techniques for oral and dental diagnosis. This course provides practical and theoretical instruction on the radiological diagnosis of the wide variety of lesions and conditions affecting the dentition, mandible, maxillofacial skeleton/skull and salivary glands.

LEVEL: 4

SEMESTER: 1, 2 & 3

COURSE CODE: DENT 4604

COURSE TITLE: ORAL RADIOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: Oral Radiology studies the use and interpretation of imaging techniques for oral and dental diagnosis. The techniques include the use of X-rays and plain photographic film, Computerised Axial Tomography (CAT), Radioisotope Scanning and Magnetic Resonance Imaging (MRI).

LEVEL: 4

SEMESTER: 1,2 & 3

COURSE CODE: DENT 4605

COURSE TITLE: ORAL MEDICINE

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: Oral Medicine is the branch of Dentistry that encompasses, with Oral Pathology, the study of the aetiology, pathogenesis, investigation, diagnosis, prevention and management of orofacial diseases. It is a relatively new speciality of Dentistry that has arisen due to (a) an increasingly ageing population, (b) advances in medical and surgical sciences and (c) lifestyle changes that have led to the emergence of previously unseen diseases. A typical example of the latter is the advent of the human immunodeficiency virus (HIV) that has resulted in an entirely new pattern of orofacial diseases, which places the responsibility for early recognition and competent management directly at the door of every general dental practitioner's office. The realisation that oral health is important in patients with systemic diseases is also growing. That oral health is an integral part of total body health and, therefore, the health of a community, means the role of a modern dental surgeon has changed from an essentially restorative discipline to that of an oral physician. The implications of systemic diseases, in the presentation and possible special management of dental patients, are fully explored. Lectures are also given by various medical consultants like Oncologists, ENT, Gastroenterology, Hematology, Ophthalmology, Cardiology and Radiology, to give medical dimension to dental diseases in the second semester of year 4 DDS programme.

LEVEL: 4

SEMESTER: 1,2 & 3

COURSE CODE: DENT 4606

COURSE TITLE: ORAL & MAXILLOFACIAL SURGERY I

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: Oral & Maxillofacial Surgery studies the surgical management of oral and dental disease including the surgical management of oral cancer and subsequent reconstructive techniques, correction of facial deformity, cleft lip and palate surgery as well as surgery involving the temporomandibular joints and salivary glands. Elements of plastic surgery are included.

LEVEL: 4

SEMESTER: 1, 2 & 3

COURSE CODE: DENT 4607

COURSE TITLE: PERIODONTOLOGY II

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course continues from Periodontology I and explores adjunctive therapy to include the use of antiseptics and antibiotics. Student interactive presentations cover effects of smoking and systemic disease as well as genetic disease and advanced diagnosis. Surgical therapy in Periodontology is covered and includes Periodontitis management through both resective and regenerative means. Surgical procedures such as muco-gingival techniques and crown lengthening surgery which integrates with restorative dentistry are introduced. Concepts and management of Peri-implant disease such as peri-implantitis and peri-mucositis are also included. The integration of Periodontology with fixed and removable prosthodontics is also covered. Continuous internal formative assessment will contribute to the final mark.

LEVEL: 4

SEMESTER: 1, 2 & 3

COURSE CODE: DENT 4608

COURSE TITLE: FIXED PROSTHODONTICS II

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: Fixed Prosthodontics II consists of case studies and didactic and clinical instruction to ensure the student develops competency. The didactic components consist mainly of classroom teaching, which includes lectures on the clinical management of patients requiring restorations, however, a small component of the course incorporates the concept of problem-based learning to develop clinical problem-solving skills. Additionally, one on one teaching occurs on the adult dental polyclinic during management of patients requiring restorations. The delivery of these restorations and advanced clinical experiences occurs under close supervision of experienced staff. The teaching of the crown and bridgework rests upon a thorough mastery by the student of the fundamentals of biomaterials, dental morphology and occlusion. Delivery of fixed prosthodontic treatment in a clinical environment is closely integrated with all other clinical disciplines. It should be recognized, however, that responsibility for successful clinical treatment resides primarily with the discipline providing the final restorative procedure.

LEVEL: 4

SEMESTER: 1, 2 & 3

COURSE CODE: DENT 4609

COURSE TITLE: ORTHODONTICS II

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: DENT 4609 will be organized into didactic, seminar-based teaching, some directed self-learning and problem-based learning, laboratory sessions, case studies, a group project and a case report and you will have a structured exposure to patients on clinics which started in year 3. Semester 1 would cover treatment planning and facial orthopaedics. Semester 2 will cover case discussions reinforcing topics covered in semester 1 and year 3 thereby deepening students' knowledge. This course is supported by the other disciplines in Child Dental Health, Preventive dentistry and Paediatric dentistry, thereby fitting into the school of dentistry's mission to train professionals that practice a team-centered approach to health care service provision to patients of all ages.

LEVEL: 4

SEMESTER: 1, 2 & 3

COURSE CODE: DENT 4610

COURSE TITLE: PAEDIATRIC DENTISTRY II

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: Paediatric Dentistry II focuses on developing competent dentists to serve the paediatric dental population. This course encompasses topics that are designed to deepen students' knowledge and understanding of aspects of paediatric dentistry and to support the increased clinical experience that they should gain for the management of paediatric patients. Areas covered will include Special Needs Dentistry and the Paediatric patient, Dental Trauma management in Children and Adolescents including Non Accidental Injury and Oral Pathology in Children and Adolescents.

LEVEL: 4

SEMESTER: 2

COURSE CODE: DENT 4611*

COURSE TITLE: ELECTIVE

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: Elective is the dental practice placement programme designed for year four (4) Doctor of Dental Surgery (DDS) students. This placement of undergraduate dental students in carefully selected general dental practices involves experiential learning to gain insight into primary dental care activities within a general dental practice setting. This course builds on knowledge acquired from the course in practice management.

LEVEL: 4

SEMESTER: 2

COURSE CODE: DENT 4612*

COURSE TITLE: THE DENTAL TEAM, PRACTICE MANAGEMENT & CONTINUOUS QUALITY IMPROVEMENT

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: The Dental Team, Practice Management & Continuous Quality Improvement is a two (2) credit core course and is required for all students pursuing the Doctor of Dental Surgery (DDS) Degree. This course is intended to comprehensively cover the issues related to and governing the management of a dental practice generally from a business, finance and human resource perspective and specifically, as it relates to Trinidad and Tobago, from a regulatory and Continuing Quality Improvement (CQI) perspective.

LEVEL: 4

SEMESTER: 1,2 & 3

COURSE CODE: DENT 4620

COURSE TITLE: RESTORATIVE DENTISTRY CLERKSHIP II

NUMBER OF CREDITS: 15

COURSE DESCRIPTION: The Restorative Dentistry Clerkship provides the student dental clerks with opportunities at the Adult Polyclinic to integrate and synthesize their knowledge, skills and attitudes towards the management of patients with diseases of the teeth and their supporting structures. Key components of this rotation are the rehabilitation of the dentition to functional and aesthetic requirements of the individual in five areas of restorative dental care: Operative Dentistry, Periodontology, Endodontics and Fixed & Removable Prosthodontics. Students, through the completion of this clerkship rotation, will be exposed to dental laboratory procedures including the impact of these procedures on the clinical situation.

LEVEL: 4

SEMESTER: 1, 2 & 3

COURSE CODE: DENT 4630

COURSE TITLE: CHILD DENTAL HEALTH CLERKSHIP II

NUMBER OF CREDITS: 10

COURSE DESCRIPTION: This Clerkship provides the dental student with additional knowledge, skills and attitudes required to develop the necessary competencies towards the management of Paediatric patients and patients with special needs with diseases of the teeth and their supporting structures. Patient cases in the Child Dental Health component of fourth year comprise of examinations including caries risk assessment, simple prophylaxis and scalings, restorations, primary molar endodontics and select orthodontics under supervision. Patient cases in the Special Care component include physically disabled, learning disabled, any differently abled patients and medically compromised patients attending the Special Needs Clinic. Conditions including Cerebral Palsy, Down Syndrome, Autism, HIV are also included. Dental health issues outside of this range of treatment will be assessed on an individual basis including the patient care plan and may be referred to other clinics as required.

LEVEL: 4

SEMESTER: 1, 2 & 3

COURSE CODE: DENT 4640

COURSE TITLE: ORAL DISEASES CLERKSHIP II

NUMBER OF CREDITS: 9

COURSE DESCRIPTION: Oral Diseases Clerkship II is a group of integrated clerkships. It builds on the knowledge, skills and competencies gained in the Oral Diseases clerkships in year 3. Key components in this clerkship entail the integration and assimilation of the student's clinical experiences in the areas of Oral Medicine, Oral Pathology, Oral Radiology and Oral and Maxillofacial Surgery. The student will actively participate in the management of adult patients with acute dental conditions or chronic oral diseases, eliciting thorough histories and head and neck examinations, conducting relevant investigations, developing differential diagnoses and treating simple and minor oral surgical cases. This clerkship also encompasses a general anaesthesia component where the student will gain exposure to the operating theatre and observe general anaesthesia and surgical cases. This encompasses the four areas of Oral diseases: Oral Pathology, Oral Medicine, Oral Radiology and Oral and Maxillofacial Surgery.

DDS – Year 5

LEVEL: 5

SEMESTER: 1 & 2

COURSE CODE: DENT 5601

COURSE TITLE: ETHICS, LAW & JURISPRUDENCE

NUMBER OF CREDITS: 1

COURSE DESCRIPTION: Ethics, Law and Jurisprudence will serve as a guide to ethics, professionalism, and ethical decision making as both a student and in your future dental career. It is intended to highlight ethical values and professional integrity and promote ethical conduct in dentistry.

LEVEL: 5

SEMESTER: 1 & 2

COURSE CODE: DENT 5620

COURSE TITLE: RESTORATIVE DENTISTRY CLERKSHIP III

NUMBER OF CREDITS: 8

COURSE DESCRIPTION: Restorative Dentistry Clerkship III is a group of integrated disciplines. It provides the dental student with opportunities on the Adult Polyclinic to integrate and synthesize their knowledge, skills and attitudes and develop the necessary competencies towards the management of adult patients with diseases of the teeth and their supporting structures. Key components of this clerkship are the rehabilitation of the dentition to functional and aesthetic requirements of the adult in five areas of restorative dental care: Periodontology, Operative Dentistry, Endodontics, Fixed Prosthodontics and Removable Prosthodontics.

LEVEL: 5

SEMESTER: 1 & 2

COURSE CODE: DENT 5630

COURSE TITLE: CHILD DENTAL HEALTH CLERKSHIP III

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: Child Dental Health Clerkship III provides the dental student with additional knowledge, skills and attitudes required to develop the necessary competencies towards the management of paediatric patients with diseases of the teeth and their supporting structures. Key components of this clerkship are the assessments (including orthodontic) of the paediatric patient and the ability to perform preventive therapies and restorative treatment and endodontic treatment on primary and permanent teeth and under direction provide simple orthodontic care.

LEVEL: 5

SEMESTER: 1 & 2

COURSE CODE: DENT 5640

COURSE TITLE: ORAL DISEASES CLERKSHIP III

NUMBER OF CREDITS: 10

COURSE DESCRIPTION: Oral Diseases Clerkship III is a group of integrated clerkships. It builds on the knowledge, skills and competencies gained in the Oral Diseases clerkships in years 3 and 4. Key components in this clerkship entails the integration and assimilation of the student's clinical experiences in the areas of Oral Medicine, Oral Pathology, Oral Radiology and Oral and Maxillofacial Surgery. The student will actively participate in the management of adult patients with acute dental conditions or chronic oral diseases, eliciting thorough histories and head and neck examinations, conducting relevant investigations, developing differential diagnoses and treating simple and minor oral surgical cases.

SCHOOL OF VETERINARY MEDICINE

(See Section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

DVM – Year 1

LEVEL:1

SEMESTER:1

COURSE CODE: VETM 1501

COURSE TITLE: VETERINARY GROSS ANATOMY I

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: The veterinary gross anatomy I course (VETM 1501) is taught in modules of limbs, thorax and abdomen. It is a comparative anatomy course based on the equine, the bovine and the canine species. Other species like the feline and the porcine are highlighted when appropriate. The anatomy course is taught using didactic and problem-based methods. Practical sessions involve complete dissections of the dog and a sheep/goat. Areas considered to be of clinical/surgical importance in the course are presented as problems in the problem-based-learning exercises.

ASSESSMENT:

This course is examined by two continuous examinations (35%), PBL (5%) and one phase examination (60%). The continuous assessment modes include a written (MCQ and short essay questions) and practical. The final examination will consist of MCQs, extended response questions and a practical examination.

LEVEL:1

SEMESTER:1

COURSE CODE: VETM 1502

COURSE TITLE: VETERINARY PHYSIOLOGY I

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course studies the function of the body at cellular levels and will concentrate on functions of the blood, cardiovascular system, nervous system, muscular system, digestive system and respiratory system. Pathophysiological aspects will be emphasized and correlated with clinical topics during the course. This course will be taught using veterinary specific examples, relating them to domestic animals (dogs, cats, sheep, goats, cows, pigs and horses) as well as exotic (rabbits, guinea pigs, hamsters, snakes) and aquatic animal species such as dolphins, sea turtles etc. The similarities and differences for the different animal species will be highlighted.

ASSESSMENT:

This course will be assessed by two continuous assessments (17.5% each), PBL (5%) and a final examination (60%).

LEVEL:1

SEMESTER:1

COURSE CODE: VETM 1503

COURSE TITLE: VETERINARY BIOCHEMISTRY

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This introductory course studies the function of the body at molecular levels and will concentrate on general veterinary biochemistry principles and intermediary metabolism. It will cover the fundamental concepts of carbohydrates, lipids, protein and nucleic acid biochemistry and metabolism, including the understanding of enzymes. It also covers a variety of topics including disorders of carbohydrate metabolism, plasma proteins, lipid profile in disease diagnosis, clinical enzymology, disturbance in acid base balance and its diagnosis, biochemistry of digestive orders, biochemistry of oxidative stress and shock, biochemical basis of fluid therapy and detoxification in the body. Correlation of many of these disorders and tests would be done with clinical topics along the course. This course will be taught using veterinary specific examples, relating them to domestic animals (dogs, cats, sheep, goats, cows, pigs and horses) as well as exotic (rabbits, guinea pigs, hamsters, snakes) and aquatic animal species such as dolphins, sea turtles etc. The similarities and differences for the different animal species will be highlighted.

ASSESSMENT:

This course will be assessed by two continuous assessments (17.5% each), PBL (5%) and a final examination (60%).

LEVEL:1

SEMESTER:1

COURSE CODE: VETM 1504

COURSE TITLE: VETERINARY CLINICAL SKILLS AND PROFESSIONAL DEVELOPMENT IA

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: The course is aimed at providing students with practical skills necessary for the practice of veterinary medicine and to function efficiently in the clinical rotations and laboratories. At the end of the course the students will be equipped with the basic skills necessary to restrain different species, to perform a complete physical examination on different species (equine, swine, bovine, avian, small animals) to recognize normal appearance and behaviour in these species and become familiar with normal parameters used in a physical examination, and to perform various diagnostic tests and sampling techniques that are important for the practice of veterinary medicine.

ASSESSMENT

In course and practical examinations

LEVEL:1

SEMESTER:2

COURSE CODE: VETM 1505

COURSE TITLE: VETERINARY CLINICAL SKILLS AND PROFESSIONAL DEVELOPMENT 1B

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course is taught in a number of practical and online sessions, using different species and different instructors. Information/skills taught relate to identification, handling, restraint, and physical examination procedures, expected to be known by a first-year veterinary student. It will also introduce further topics in Ethics in the profession and Financial Literacy. Students will spend time in the Small and Large Animal Clinics to become familiar with these areas.

ASSESSMENT

It will be assessed by in course exams, which are both written and practical.

LEVEL:1

SEMESTER:2

COURSE CODE: VETM 1506

COURSE TITLE: VETERINARY PHYSIOLOGY II

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course studies the function of the body at cellular levels and will concentrate on functions of the renal system, body fluids and homeostasis, endocrine system, reproductive system and lactation, growth and thermoregulation. Pathophysiological aspects will be emphasized and correlated with clinical topics during the course. This course will be taught using veterinary specific examples, relating them to domestic animals (dogs, cats, sheep, goats, cows, pigs and horses) as well as exotic (rabbits, guinea pigs, hamsters, snakes) and aquatic animal species such as dolphins, sea turtles etc. The similarities and differences for the different animal species will be highlighted.

ASSESSMENT

This course will be assessed using two continuous assessment examinations during the semester (17.5% each), PBL (5%) and a final examination (60%).

LEVEL:1

SEMESTER:2

COURSE CODE: VETM 1507

COURSE TITLE: VETERINARY HISTOLOGY AND EMBRYOLOGY

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: This course begins with the study of cell structure and progresses through the basic tissues to the study of organ systems. Histology provides not only the microscopic examination of the body, but also the correlation between structure and function. Knowledge of normal structure is necessary to understand the study of the abnormal (pathology), which deals with the change in structure and function of body tissues/organs due to the disease process. The course also covers the sequence of normal development from gametogenesis and fertilization to the formation of body form and the development of fetal membranes, placenta and various organ systems. Major developmental abnormalities that occur in domestic animals and the various mechanisms that lead to them will be discussed.

ASSESSMENT

Continuous assessment 40 %

Final Examination 60%

LEVEL:1

SEMESTER:2

COURSE CODE: VETM 1508

COURSE TITLE: VETERINARY GROSS ANATOMY II

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: The veterinary gross anatomy course is taught in modules of head and neck, pelvis and perineum and avian anatomy. It is a comparative anatomy course based on the equine, the bovine and the canine species. Other species like the feline and the porcine are highlighted when appropriate. Avian anatomy is taught as a module on comparative basis. The anatomy course is taught using didactic and problem-based methods. Practical sessions involve complete dissections of the dog and a sheep/goat. The avian anatomy module practical involves the use of prosected specimens. Areas considered to be of clinical/surgical importance in the course are presented as problems in the problem-based-learning (PBL) exercises.

ASSESSMENT

This course is examined by two continuous examinations, a PBL exercise and one phase examination. The continuous assessment examinations include written (MCQ and short answer/essay questions) and a practical component. The final examination consists of MCQs and extended response questions as well as a practical.

LEVEL:1

SEMESTER:3

COURSE CODE: VETM 1509

COURSE TITLE: FARM ATTACHMENT

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course exposes students to farm practices outside of the SVM and is meant to give them experience with handling and care of livestock species as well as to inculcate professional and ethical veterinary practices. It is to be completed during the vacation periods of the programme, that is, both June – August and December – January holiday periods.

ASSESSMENT

Based on a clinical competency rubric

DVM – Year 2

LEVEL:2

SEMESTER:1

COURSE CODE: VETM 2501

COURSE TITLE: ANIMAL PRODUCTION I

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: This course is the first of two Animal Production courses delivered within the DVM Programme at the School of Veterinary Medicine. Animal Production I is divided into two modules: Monogastric animal production (Pig and poultry production) and General Farm management. The monogastric production module seeks to introduce students to the concepts and practices involved in the management of poultry and swine herds. The General Farm Management module will introduce students to the various livestock production systems, animal welfare and farm business management. This course will be delivered via a combination of interactive didactic lectures, field trips, directed reading, PBL, and multimedia resources.

ASSESSMENT

Students will be assessed using a combination of MCQs, SAQs and PBL.

LEVEL:2

SEMESTER:1

COURSE CODE: VETM 2502

COURSE TITLE: BIOSTATISTICS

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course focuses on providing the entry level Veterinarian with the basic concepts and skills required for the analysis and interpretation of data sets. This course will be delivered primarily via interactive didactic lectures and problem-based learning (PBL).

ASSESSMENT

Students will be assessed via two continuous assessment examinations (35%), one PBL question (5%), and the final examination (60%). Students are required to score an overall grade of 50% to successfully complete this course.

LEVEL:2

SEMESTER:1

COURSE CODE: VETM 2503

COURSE TITLE: VETERINARY BACTERIOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course consists of both didactic lectures and laboratory sessions. This course provides the students with the required of the common bacterial and fungal diseases of animals with emphasis on those present in tropical climates. Laboratory sessions emphasize the proper selection, collection, and transportation of bacteriologic and fungal specimens. Students are exposed to basic processing of clinical/pathological specimens and identification of bacterial and fungal organisms present; and identification of potential antibiotic/antifungal treatment. This course also introduces students to the concept of good antibiotic stewardship.

ASSESSMENT

Continuous assessment 40 %
Final Examination 60%

LEVEL:2

SEMESTER:1

COURSE CODE: VETM 2504

COURSE TITLE: VETERINARY CLINICAL SKILLS AND PROFESSIONAL DEVELOPMENT-2A

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course is taught in several practical sessions, using different species and different instructors. Information/skills taught relate to different procedures expected to be known by students at this level. This course covers parenteral sites in various species as well as various physical examination techniques. Drug dose and Fluid therapy calculations will also be taught via tutorials. Students are expected to know the information taught in Veterinary Clinical Skills and Professional Development 1A and B. Small groups are used to discuss cases with the emphasis on information taught in level 1 and the current course. Students are also exposed to ethical, mental health and financial literacy topics.

ASSESSMENT

This course will be assessed by in-course exams, which will be both written and practical. There will also be attendance grading for the discussion topics.

LEVEL:2

SEMESTER:1

COURSE CODE: VETM 2506

COURSE TITLE: VETERINARY PARASITOLOGY I

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course introduces students to animal relationships and the evolution of parasitism, adaptation of parasites to parasitism and the host-parasite interphase. A detailed consideration of the morphology, taxonomy, life cycles, geographic distribution, pathology, treatment and control of parasitic protozoa, helminthes and arthropods and the diseases they cause in dogs, cats, pigs and birds shall be covered. VETM 2011 is a 3 credit course and will be delivered through a mixture of didactic lectures, lab sessions and discussions.

ASSESSMENT

This course will be assessed through in-course continuous assessments, short quizzes, PBL and a final written and practical examination. Theory will account for 75% of the credits while practical will account for 25%.

LEVEL:2

SEMESTER:1

COURSE CODE: VETM 2507

COURSE TITLE: VETERINARY PHARMACOLOGY AND THERAPEUTICS

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course introduces students to the study of effects, uses mechanism of action, and toxicity of drugs in veterinary medicine. It covers all aspects of Pharmacokinetics, pharmacodynamics, and systemic pharmacology. The course is taught through lectures and laboratory exercises.

ASSESSMENT

It will be assessed by two written continuous assessment examinations (35%), PBL (5%) and one written final examination (60%) at the end of the semester.

LEVEL:2

SEMESTER:2

COURSE CODE: VETM 2505

COURSE TITLE: VETERINARY CLINICAL SKILLS AND PROFESSIONAL DEVELOPMENT 2B

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course is taught in a number of practical sessions, using different species and different instructors. Information/skills taught relate to different procedures expected to be known by students at this level. It covers various sampling techniques in bovine and small ruminants, and dietary requirements and restraint of laboratory animals. Students are expected to know the information taught in Clinical skills and Professional Development year 1 courses. As started in year 1, ethical discussions are continued in year 2. Topics such as Animal Welfare and Cruelty will be discussed. Students will also be introduced to group discussions on how to discuss difficult information with clients and the topic Euthanasia as a veterinary professional. Students need to understand these issues especially prior to entering their clinical rotations.

LEVEL:2

SEMESTER:2

COURSE CODE: VETM 2508

COURSE TITLE: VETERINARY PARASITOLOGY II

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course was designed to cover the clinical aspects of veterinary parasitology with emphasis on the parasites of ruminants, horses and donkeys. A detailed consideration of the morphology, taxonomy, life cycles and geographic distribution of parasitic protozoa, helminths and arthropods of ruminants, horses and donkeys shall be covered. VETM 3001 consists of a mixture of didactic lectures, discussions and lab sessions.

ASSESSMENT

This course will be assessed through in-course continuous assessments, short quizzes, PBL and a final written and practical examination. Theory will account for 75% of the credits while practical will account for 25%.

LEVEL:2

SEMESTER:2

COURSE CODE: VETM 2509

COURSE TITLE: ANIMAL PRODUCTION II

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course is to introduce the students of Veterinary Medicine to the World of Animals from the standpoint of production, growth, economics and farm management. It is one of three courses [Animal Production I, II and Animal Nutrition] to which the veterinary student will be exposed to domestic and non-domestic animal species. It was designed specifically for the students in the five-year degree programme in Veterinary Medicine at the UWI.

ASSESSMENT

Students will be assessed using MCQs, SAQs and PBL.

LEVEL:2

SEMESTER:2

COURSE CODE: VETM 2510

COURSE TITLE: VETERINARY VIROLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course in basic and applied veterinary virology is designed for undergraduate veterinary students. The course is taught in 3 parts: Part 1 covers basic concepts and principles of virology such as viral structure, replication, classification, cultivation and quantification. It also covers methods of diagnosing viral infections, as well as viral pathogenesis and prevention / control strategies. Part 2 covers specific viral families and their representative diseases. This part is split into two parts: DNA viruses and RNA viruses. Each viral family and their representative diseases will be discussed based on the following criteria: viral family properties and classification, pathogenesis, clinical signs, transmission / epidemiology, diagnosis, control.

ASSESSMENT

Continuous assessment 40 %

Final Examination 60%

LEVEL:2

SEMESTER:2

COURSE CODE: VETM 2511

COURSE TITLE: VETERINARY IMMUNOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course in basic and applied immunology is designed for undergraduate veterinary students. The fundamental aspects of immunology are emphasized, and lecture materials incorporate the major host defenses that limit infection in domestic animals. In addition, the immune cells, tissues and organs and processes by which the host responds to antigenic challenges are addressed. The course also addresses the application of these concepts in veterinary medicine. Lectures and practical sessions describe, compare and contrast diagnostic methods. Lecture topics include immune disorders such as autoimmunity, immunodeficiencies and hypersensitivity reactions. The importance of vaccination, methods of vaccine preparation and various types of vaccines are discussed.

ASSESSMENT

This course will be assessed through two in-course continuous assessment exams (17.5% each), or one continuous assessment exam (20%) and two assignments (7.5% each), one PBL session (5%) and a final written examination (60%).

LEVEL:2

SEMESTER:2

COURSE CODE: VETM 2512

COURSE TITLE: VETERINARY TOXICOLOGY

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course introduces the year two students to understand the concept of toxicity to animals by drugs or other toxic agents that animals come in contact with including plants, animals, microbial, marine, and chemical toxicities including the study of toxicokinetics and toxicodynamics of all these agents, after completing and understanding the concept of pharmacology and therapeutics in the first semester of year two. This course is taught in system-wise modules such as lectures, discussions and guided reading assignments.

ASSESSMENT

It will be assessed by two written continuous assessment examinations, PBL and one written phase examination at the end of the semester.

LEVEL:2

SEMESTER:2

COURSE CODE: VETM 2513

COURSE TITLE: VETERINARY GENERAL PATHOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course introduces students to the aetiology of lesions (gross and microscopic), their pathogenesis, and their effect on normal cell/tissue/organ function. It covers developmental, inflammatory, circulatory, hemostatic, and neoplastic changes.

ASSESSMENT

It will be assessed using in-course continuous assessments (35%), final examination (60%), and problem, based learning case (5%).

LEVEL:2

SEMESTER:2

COURSE CODE: VETM 2210

COURSE TITLE: ANIMAL NUTRITION

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: Nutrition is one of the most important factors in animal production. In this course students will be introduced to basic concepts of feed and ration formulation and nutritional requirements at different physiological states. Interactive lecturing methods are used, and students are engaged in questions and answers through the lecture. Protein and energy utilization and metabolism, in Livestock, dogs, cats and laboratory animals will also be explored.

ASSESSMENT

It will be assessed using MCQs, SAQs and PBL.

DVM – Year 3

LEVEL:3

SEMESTER:1

COURSE CODE: VETM 3005

COURSE TITLE: VETERINARY SYSTEMIC PATHOLOGY I

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: In this course, the pathology of selected organ systems/tissues would be explored. Learners would focus on the diseases associated with each organ system, the associated gross and microscopic lesions, the aetiology and pathogenesis and linkages with clinical signs. The course content is delivered via face-to-face lectures, self-directed learning, myelearning and laboratory sessions. Laboratory sessions involve carcass dissection and discussions on the gross necropsy findings of the week, stored specimens, PowerPoint images and/or histological slides/images. The organ systems that would be explored in this course would include: the alimentary, hepatobiliary, musculoskeletal (bones/joints), integumentary, endocrine and lymphohaematopoietic systems predominantly in domestic animals (horses, cattle, sheep, goats, pigs, dogs and cats), but not excluding exotic species (avian, fish, amphibian, reptile).

ASSESSMENT

Assessment consists of two in-course assessments (35%) consisting of SAQs and MCQs, PBL – case study and discussion (5%) and a final exam (60%) consisting of MCQs, extended response questions and an OSCE (practical spotter questions).

LEVEL:3

SEMESTER:1

COURSE CODE: VETM 3008

COURSE TITLE: VETERINARY EPIDEMIOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The general concepts used in epidemiologic research and data analysis in veterinary medicine are delivered through this course. This discipline involves the study of diseases, the identification and quantification of the effects of factors associated with disease and the assessment of the effects of prevention and treatment of disease in groups of animals. Veterinary Epidemiology also includes knowledge and application of statistical tools in the study of diseases. This course is taught in Year III of the veterinary curriculum, with lecture presentations and a practical session on using statistical software.

ASSESSMENT

Continuous assessment 40%

Final examination 60%

LEVEL:3

SEMESTER:1

COURSE CODE: VETM 3009

COURSE TITLE: VETERINARY PUBLIC HEALTH, ZOOSES AND PREVENTATIVE MEDICINE

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: Zoonoses are infections transmitted between animal and man. This course traces the development of public health and its application in modern veterinary medicine. Zoonotic diseases of regional and international significance are discussed in detail. Concepts in preventative medicine and factors pertinent to successful control and eradication programmes and management of disease outbreak situations are also discussed. This course is taught in Year III of the veterinary curriculum, with lecture presentations and discussions.

ASSESSMENT

Continuous assessment 40%

Final examination 60%

LEVEL:3

SEMESTER:1

COURSE CODE: VETM 3501

COURSE TITLE: AVIAN DISEASES

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The aetiology, pathogenesis, epidemiology, clinical signs, relevant pathology and treatment of poultry (and a few pet bird species) diseases will be discussed. Diseases of chickens and ducks will be emphasized. With respect to disease, the course will focus on the impact of husbandry practices, clinical signs and gross pathology; microscopic pathology will be discussed only for diseases where it is considered critical for diagnostic purposes. Students will learn how to examine birds, reach a diagnosis plus recommend treatment, control and preventive measures. Emphasis will be placed on health maintenance in avian species.

ASSESSMENT

Continuous assessment 40%

Final examination 60%

LEVEL:3

SEMESTER:1

COURSE CODE: VETM 3502

COURSE TITLE: PRINCIPLES OF MEDICINE

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course is designed to give an overview of the principles involved when presented with a medical case. It involves application of the basic knowledge gained in the pre-clinical years to clinical cases. This foundation will be a building block with which the veterinary student will transition to being a competent entry-level veterinarian.

ASSESSMENT

Continuous assessment 40%

Final examination 60%

LEVEL:3

SEMESTER:1

COURSE CODE: VETM 3503

COURSE TITLE: PROFESSIONALISM, ETHICS, STATE MEDICINE AND JURISPRUDENCE

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course introduces students to the concepts and guidelines needed to direct ethical behaviour as a veterinary professional. It covers aspects of veterinary ethics, professional ethics, legislative frameworks and medical records.

ASSESSMENT

Assessment is via coursework only, using case reports, student presentations, a case study for PBL and written examinations.

LEVEL:3

SEMESTER:1

COURSE CODE: VETM 3504

COURSE TITLE: VETERINARY CLINICAL SKILLS AND PROFESSIONAL DEVELOPMENT 3A

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course introduces students to specific tests used in bovine, small ruminants and laboratory animals. It covers topics such as sedation and anaesthesia in laboratory animals, 5-station physical examination in small ruminants and bovine. It is taught in several practical sessions, using different species and different instructors. Students are expected to know the information taught in Veterinary Clinical Skills and Professional Development years 1 and 2 courses. The course also builds on the history taking skills and mental health issues started in years 1 and 2 respectively.

ASSESSMENT

Will be assessed by an in-course exam, which will be written and practical.

LEVEL:3

SEMESTER:2

COURSE CODE: VETM 3010

COURSE TITLE: VETERINARY SYSTEMIC PATHOLOGY II

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: In this course, the pathology of selected organ systems/tissues will be explored. Learners will focus on the diseases associated with each organ system, the associated gross and microscopic lesions, the aetiology and pathogenesis and linkages with clinical signs. The course content is delivered via face-to-face lectures, self-directed learning, myelearning and laboratory sessions. Laboratory sessions involve carcass dissection and discussions on the gross necropsy findings of the week, stored specimens, power point images and/or histological slides/images. Students would generally work independently with group work being involved in laboratory and problem-based learning (PBL) sessions. Case studies would encourage application of knowledge gained during the course. The organ systems that would be explored in this course would include: the nervous, cardiac, respiratory, urinary, and reproductive systems as well as the organs of the eye and the ear, all of these in predominantly in domestic animals (horses, cattle, sheep, goats, pigs, dogs and cats), but not excluding exotic species (avian, fish, amphibian, reptile).

ASSESSMENT

Assessment consists of online quizzes, two in course assessments, forum participation, and a final exam consisting of MCQs and practical spotter questions. PBL will also be included in the final assessment, but this is done at a time separate from the main course schedule.

LEVEL:3

SEMESTER:2

COURSE CODE: VETM 3506

COURSE TITLE: SMALL ANIMAL MEDICINE I

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: The course covers topics in small animal Endocrinology, Respiratory diseases Nutrition, Renal Diseases, Circulatory Disorders, Feline viruses and Parasitic Diseases.

ASSESSMENT

Continuous assessment examinations, PBL, (0%) and final examination (60%).

LEVEL:3

SEMESTER:2

COURSE CODE: VETM 3507

COURSE TITLE: CLINICAL VETERINARY PHARMACOLOGY

NUMBER OF CREDITS: 1

COURSE DESCRIPTION: The fundamental goal of veterinary clinical pharmacology is to optimize therapy for a particular patient (individual, herd, flock, etc.) based on pathophysiology and pharmacology. The clinical pharmacology course is a one-unit course taught using didactic and problem-based methods. It focuses in teaching the students the proper usage of drugs in the clinic based on the classical cases recorded in various clinics applying the knowledge gained in systemic pharmacology, chemotherapy, and toxicology. The course is taught in Year III of the veterinary curriculum.

ASSESSMENT

The course is examined weekly (for 12 weeks) by administering a short quiz (10 questions) to be answered in ten minutes, no final examinations are required.

LEVEL:3

SEMESTER:2

COURSE CODE: VETM 3508

COURSE TITLE: PRINCIPLES OF SURGERY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course introduces students to the basic surgical principles and techniques to be applied in clinical courses, Small and Large Animal Surgery. General surgical principles to be adhered to during veterinary surgical procedures are introduced as well as specific surgical principles applied to Small Animal Soft Tissue and Orthopaedic Surgery.

ASSESSMENT

This course will be assessed using a combination of written examinations, PBL, laboratory session as well as student assignments and projects.

LEVEL:3

SEMESTER:2

COURSE CODE: VETM 3509

COURSE TITLE: VETERINARY CLINICAL PATHOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course teaches about the use of laboratory methods (clinical chemistry, haematology, cytology, urinalysis) for the monitoring of the health status of animals, evaluation of organ systems, and for the diagnosis and treatment of disease.

This course is divided broadly into:

1. Haematology – consisting of the anatomy, physiology, pathology and clinical signs of diseases related to blood and blood-forming tissues.
2. Clinical chemistry – relating to the pathophysiology of the various organ systems including the haemopoietic, endocrine, digestive, urinary and nervous systems at the cellular level.
3. Cytopathology – involving the study of cellular disease and the use of cellular changes for the diagnosis of disease.
4. Urinalysis – consisting of the physical, chemical and microscopic examination of urine to diagnose and screen for diseases and conditions.

This is a 3-credit course and consists of 60 contact hours (lectures and laboratory exercises).

ASSESSMENT

The course will be assessed through two in-course continuous assessment examinations (17.5% each) and PBL (5%) in which students will brainstorm, analyze and discuss a case relating to clinical pathology in small groups.

LEVEL:3

SEMESTER:2

COURSE CODE: VETM 3016

COURSE TITLE: EXOTIC ANIMAL HEALTH AND MANAGEMENT

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: An introduction to the biology, management, health and diseases of fish, marine mammals, wild and zoo animals. The course is divided into three modules:

Module I: **Principles of Exotic Animal Management and Medicine**

Module II: **Fish Health and Management**

Module III: Introduction to Marine Mammal Medicine

Content will be delivered primarily through classroom lectures, however, Problem Based Learning (PBL) and online readings will also be utilised.. In keeping with the UWI SVM's and the University's mission, this course seeks to advance education and knowledge of the health, treatment and management of exotic species of regional significance, thereby contributing to the production of well-trained veterinary practitioners who can in turn contribute to solving the veterinary needs of the Caribbean region and the wider world.

ASSESSMENT

There will be two written in-course assessments (40%) and the final Examination at the end of the Semester (60%).

LEVEL:3

SEMESTER:2

COURSE CODE: VETM 3505

COURSE TITLE: VETERINARY CLINICAL SKILLS AND PROFESSIONAL DEVELOPMENT 3B

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course introduces students to specialized techniques in various species. It covers nasal flushing, wing clipping, and use of an oral speculum in birds. It also details further examination and treatment techniques, e.g., blood collection, ear and eye examination, urinary catheterization. There will be the continuation on topics in Financial Literacy, which was started in the year 1 course.

ASSESSMENT

It will be assessed by in-course exams, which can be either written or practical, and attendance at the lecture/discussion sessions.

LEVEL:3

SEMESTER:2

COURSE CODE: VETM 3510

COURSE TITLE: RESEARCH METHODOLOGY IN VETERINARY SCIENCES

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: Research Methodology is a preparatory course for the Research Project courses which are offered in Year 4. It provides a comprehensive introduction to writing research methodology, research protocols, research problems, scientific methods and experimentation, experimental error and improving experimental accuracy. VETM 3510 is organized in a sequential manner, allowing students to identify a study topic, formulate research questions, organize a literature review and select appropriate research designs and methodologies. It helps to establish a foundation for the research project as students actively participate in developing a research proposal. Students must provide evidence that they have completed and passed the CITI Research Ethics online course before the end of semester II of the same academic year. This course fits into the mission of the SVM because it helps to develop critical thinking, Research and continuing professional development. This course will allow students to develop effective information gathering, critical thinking and problem solving through basic and applied research for lifelong learning.

ASSESSMENT

The assessment of this course is based on 100% coursework. Coursework that will be evaluated include two seminar summaries assessment, group journal article critique and submission of a full project draft proposal and abstract for presentation.

LEVEL:3

SEMESTER:3

COURSE CODE: VETM 3511

COURSE TITLE: SUPERVISED SEEING PRACTICE

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: This course exposes students to clinical practice external to the SVM for 5 weeks after the year 3 programme. Student will be involved in seeing clinical practice under supervision.

ASSESSMENT

Competency based rubric for clinical assessment (100 %).

DVM – Year 4

LEVEL:4

SEMESTER:1

COURSE CODE: VETM 4503

COURSE TITLE: RESEARCH PROJECTS

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: Research Projects is a year-long course offered in Year 4 of the DVM programme, where students undertake a scientific study/research project, which commences in the course VETM 3510 Research Methodology in Veterinary Sciences and is completed in Semester II, Year 4. This course allows DVM students to perform practical components and skills of conducting research that were learnt in the Year 3 course VETM 3510: Research Methodology in Veterinary Sciences. During the pre-requisite course VETM 3510: Research Methodology in Veterinary Sciences, the students are formed into groups of 3, 4 or 5 students, where they will present and submit a proposal for a scientific study/research project under the guidance of a main supervisor who must be a full-time lecturer at The School of Veterinary Medicine, UWI, St Augustine. The course will be assessed by self and peer assessments submitted by students and supervisors.

ASSESSMENT

At completion of the project, the students will present their findings with an oral presentation (40%) and submit a written report of the project (60%). There will be no lectures or laboratory sessions for the course, however meetings with course coordinators, students and supervisors will be held where necessary for guidance while the students undertake the project.

LEVEL:4

SEMESTER:1

COURSE CODE: VETM 4211

COURSE TITLE: LARGE ANIMAL MEDICINE I

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: VETM 4211 is a 4-credit compulsory course and is an integral part of the DVM curriculum. This course is offered only to 4th year Veterinary students who have completed all previous courses. The primary purpose of this food animal medicine course is to develop the knowledge and skills required for a graduate to enter food animal practice. This course presents the information necessary for the student to develop an understanding and appreciation of the key concepts in food animal medicine and integrate this with the knowledge assimilated in previous years. This course has three (3) main modules: Swine Medicine, Small ruminant Medicine and Bovine Medicine. This course will be delivered using a range of modalities including interactive didactic classes, laboratory/practical sessions, directed online readings, and a group assignment.

ASSESSMENT

The course will be assessed by In Course Assessment and a Final Examination. The In Course Assessment (40%) will be composed of written examinations, practical examination, and group assignments. The Final Examination (60%) will be a written examination.

LEVEL:4

SEMESTER:1

COURSE CODE: VETM 4003

COURSE TITLE: VETERINARY ANAESTHESIOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course introduces students to anaesthesia in veterinary patients. It covers all stages of the anaesthetic process from patient evaluation and preparation to chemical restraint using sedatives, tranquilizers, and general anaesthetics to patient monitoring and recovery from anaesthesia. It also covers adjunctive procedures in veterinary anaesthesia such as local anaesthetic techniques, artificial ventilation, etc.

ASSESSMENT

It will be assessed using two continuous assessment written exams of MCQ's and SAQ's (20% each) and a final written exam of MCQs and extended response questions. (60%)

LEVEL:4

SEMESTER:1

COURSE CODE: VETM 4004

COURSE TITLE: THERIOGENOLOGY I

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: Reproduction and Obstetrics in the common farm animal species – ruminants and porcine. Techniques for reproductive examination and pregnancy diagnosis. Description of major infectious and non- infectious causes of abortion and pregnancy wastage, evaluation and enhancement of reproductive performance. Diagnosis and treatment of problems associated with gestation and the peri-parturient period. Physiology of normal parturition and diagnosis and obstetrical management of abnormal parturition. Effect of stress on sub-fertility in the dairy cow. Therapeutic options for induction of parturition and abortion. Diagnosis and therapeutic approach to male and female sub-fertility. Breeding soundness evaluation of the male and reproductive conditions of the male relevant to male fertility. The application of assisted reproductive technologies e.g. Artificial insemination, embryo transfer and oestrous synchronisation. The economic role of reproduction in the various farm animal industries.

ASSESSMENT

Continuous assessment 40%

Final examination 60%

LEVEL:4

SEMESTER:1

COURSE CODE: VETM 4501

COURSE TITLE: SMALL ANIMAL SURGERY I

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course teaches students about the common surgical diseases of dogs and cats. This includes the recognition, diagnostic techniques as well as management for these small animal surgical conditions.

ASSESSMENT

Will be assessed using written examinations as well as laboratory assignments.

Continuous assessment 40%

Final examination 60%

LEVEL:4

SEMESTER:1

COURSE CODE: VETM 4502

COURSE TITLE: SMALL ANIMAL MEDICINE II

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: The course covers topics in small animal Gastroenterology, Oncology, Canine Infectious Diseases, Cardiology, Dermatology and Neurology. It will be delivered by didactic lectures and assessed via continuous assessment examinations, an OSCE, and final examination.

ASSESSMENT

Continuous assessment 40%

Final examination 60%

LEVEL:4

SEMESTER:2

COURSE CODE: VETM 4504

COURSE TITLE: INTRODUCTION TO CLINICAL ROTATIONS

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course includes contributions from Eight (8) clinical disciplines, that is, Small Animal Medicine, Small Animal Surgery, Food Animal Medicine and Surgery, Equine Medicine and Surgery, Avian and Exotics Diseases, Public Health, Pathology and Diagnostic Imaging. Each week the student will move from one discipline to a new discipline, whilst developing practical skills in diagnosing common diseases, formulating treatment plans, communicating with clients and conducting common procedures in the clinical setting. This 4-credit course covers the major areas that are relevant to clinical practice.

ASSESSMENT

It will be assessed using an Objective Structured Clinical Examination (OSCE).

LEVEL:4

SEMESTER:2

COURSE CODE: VETM 4008

COURSE TITLE: THERIOGENOLOGY II

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course will cover reproduction and Obstetrics in the small animal and equine species. Techniques for reproductive examination and pregnancy diagnosis. Description of major infectious and non-infectious causes of abortion and pregnancy wastage, evaluation and enhancement of reproductive performance in mares and bitches. Diagnosis and treatment of problems associated with gestation and the peri-parturient period. Physiology of normal parturition and diagnosis and obstetrical management of abnormal parturition. Therapeutic options for induction of parturition and abortion. Diagnosis and therapeutic approach to male and female sub-fertility. Breeding soundness evaluation of the male and reproductive conditions of the male relevant to male fertility. The application of assisted reproductive technologies with particular reference to the illegality of use in certain industries e.g., Artificial insemination and embryo transfer.

ASSESSMENT

Continuous assessment 40%

Final examination 60%

LEVEL:4

SEMESTER:2

COURSE CODE: VETM 4212

COURSE TITLE: LARGE ANIMAL MEDICINE II

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: The course will attempt to assist the student in acquiring sufficient up-to-date knowledge of disease concepts in equine medicine. This will be done via the use of didactic lectures and practical laboratory sessions. The breadth of information in equine medicine is vast, therefore the student is also expected to do additional self-directed reading around the topics presented. This course will also stimulate the student to apply the knowledge learned to analysis and problem-solving situations in equine medicine that will likely be encountered in examinations, in final year equine rotation and later in equine practice. The course will primarily focus on selected common and significant equine diseases found in the West Indies and internationally. This course will use a range of learning activities including face-to-face lectures and discussions, facilitated by utilizing multi-media systems in the classroom, and the virtual learning environment (VLE) i.e. myeLearning.

ASSESSMENT

Assessment will be multimodal including written (essay, short answer and multiple-choice questions), oral and portfolio presentation.

LEVEL:4

SEMESTER:2

COURSE CODE: VETM 4505

COURSE TITLE: LARGE ANIMAL SURGERY

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: The primary emphasis is directed towards developing the skills, knowledge & attitudes that will permit the entry-level veterinarian to develop strategies to deal with common surgeries. Common surgical conditions encountered in the food-producing and equine species are presented in terms of diagnosis, treatment and management. This 5-credit course will be delivered through a mixture of didactic lectures, discussions and labs.

LEVEL:4

SEMESTER:2

COURSE CODE: VETM 4506

COURSE TITLE: VETERINARY DIAGNOSTIC IMAGING

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course introduces students to the use of ionizing radiation and ultrasound waves in veterinary diagnostic imaging. It covers physics, operating procedures, safety protocols, image generation and interpretation of radiographs and ultrasonograms in dogs, cats, and horses. Students will develop an appreciation for the importance of radiation safety in daily practice. The positioning of the various body parts will be taught and competency in the interpretation of the normal radiographic anatomy and common pathological conditions of all body systems in companion animals will be emphasized. The normal and pathological radiographic findings of the common diseases of the skull and the equine limb will also be covered. Students will also be exposed to the physics and the application of ultrasonography. The interpretation of the normal abdomen and its comparison to common abdominal diseases as well as changes in the musculocutaneous system will be addressed. Newer imaging modalities such as Magnetic Resonance Imaging (MRI), Computed Tomography (CT) and Nuclear Scintigraphy will be introduced where these applicable.

ASSESSMENT

This course will be assessed using continuous assessments, a final exam and group presentations.

LEVEL:4

SEMESTER:2

COURSE CODE: VETM 4009

COURSE TITLE: VETERINARY OPHTHALMOLOGY

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: Veterinary Ophthalmology is taught by lecture presentations, and emphasizes the normal structure, normal variation and abnormalities of each part of the eye and relevant adnexal tissue. It covers the clinical signs, diagnosis and treatment options, both medical and surgical, of the problems presented. The course is offered in Year 4 Semester 2.

ASSESSMENT

The course is examined by two in course written exams during the semester. There is no final examination for this course

LEVEL:4

SEMESTER:2

COURSE CODE: VETM 4507

COURSE TITLE: FOOD HYGIENE/SAFETY

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course introduces students to the general concepts involved in meat hygiene and meat inspection including the inspection of poultry, rabbits and fish. Current food safety issues in the meat and milk industry, an understanding and application of Hazard Analysis Critical Control Points (HACCP) to the food manufacturing industry are also discussed. This course is taught in Year IV of the veterinary curriculum, with lecture presentations and discussions.

ASSESSMENT

Continuous assessment 40%

Final examination 60%

DVM – Year 5

LEVEL:5

SEMESTER: YEAR LONG

COURSE CODE: VETM 5501

COURSE TITLE: ELECTIVE CLINICAL ROTATION / CLERKSHIP and CLINICAL CASE REVIEWS

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: This course allows students to participate in a two-week elective clerkship in an effort to broaden the options available to them in developing and planning their professional career goals and it allows extra exposure to an area of their interest. It also provides students with experience in clinical case work-up, relevant clinical research, and presentation to an academic audience.

ASSESSMENT

Final examination (Observational, summative) 50%, Case summary 5%, Oral presentation 35%, case report 10%.

LEVEL:5

SEMESTER: YEAR LONG

COURSE CODE: VETM 5003

COURSE TITLE: EQUINE MEDICINE, SURGERY & THERIOGENOLOGY CLINICAL CLERKSHIP

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The purpose of this clerkship is to expose students to all aspects of equine medicine, surgery, theriogenology, diagnostic imaging and pharmacotherapy. It is a foundation for practical work that will be performed following graduation. Knowledge and skills developed in this course will provide an essential basis for a career involving clinical skills with horses. It will build on earlier courses in pre-clinical studies (anatomy, physiology, pharmacology and pathology) and clinical studies (large animal medicine, surgery and theriogenology) of which students are expected to have a thorough working knowledge.

ASSESSMENT

It will be assessed by a combination of in course assessments, assignments and examinations based on case material.

LEVEL:5

SEMESTER: YEAR LONG

COURSE CODE: VETM 5210

COURSE TITLE: FOOD ANIMAL MEDICINE, SURGERY & THERIOGENOLOGY CLINICAL CLERKSHIP

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: Course Description: To provide the relevant teaching, training and clinical exposure for students to develop the competencies required for an entry level veterinary surgeon to serve the ruminant and swine industries. The emphasis would be on animal health and production management, diagnosis, clinical management, prevention and control of diseases and animal welfare.

ASSESSMENT

It will be assessed by a combination of in course assessments, assignments and examinations based on case material.

LEVEL:5

SEMESTER: YEAR LONG

COURSE CODE: VETM 5006

COURSE TITLE: PUBLIC HEALTH CLINICAL CLERKSHIP

NUMBER OF CREDITS: 2

COURSE DESCRIPTION: The Public Health Clerkship is structured to enable every student to be exposed to the same clinical material through organized visits to various facilities. The advantage is the students' evaluation is based on exposure to the same materials. During the first semester, the following aspects of the clinical clerkship are covered: Milk Hygiene, Herd Health, Meat Hygiene, Public Health and Preventive Medicine. The principal objectives enumerated for Herd Health and Meat Hygiene in Semester I also apply to Semester II. In addition, there is a Food Hygiene Laboratory component which involves working on meat or milk samples inoculated with unknown pathogens. Teaching will include small group discussions, practical sessions as well as site visits to various companies.

ASSESSMENT

Assessments will include coursework weighted at 50% and a final OSCE examination weighted 50%

LEVEL:5

SEMESTER: YEAR LONG

COURSE CODE: VETM 5007

COURSE TITLE: SMALL ANIMAL MEDICINE III CLINICAL CLERKSHIP

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: This course is one of the clinical clerkships in Level 5 (clinical) year of the DVM programme. The course is taught by case interactions using the cases seen through the Small Animal Teaching Hospital and clinical rounds/discussion sessions based on those cases and other relevant topics. The course is offered for 3 weeks to each student in their rotating group in semesters 1 and 2 weeks in semester 2.

ASSESSMENT

Exams consist of oral and spotter exams at the end of the rotation; a written exam at the end of Semester 1, and a practical/oral/spotter exam at the end of the course. Students are also required to submit case reports at the end of each rotation block.

LEVEL:5

SEMESTER: YEAR LONG

COURSE CODE: VETM 5502

COURSE TITLE: SMALL ANIMAL SURGERY II & ANAESTHESIOLOGY CLINICAL CLERKSHIP

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: This clerkship is a yearlong course taught in year 5 (4 weeks in semester 1 and 1 week in semester2). The students participate in actual clinical scenario and get involved in actual treatment of cases under the supervision of a faculty. The students will interact with clients in history taking and other formalities. They will do physical examination of the patient, plan for the diagnosis of the cases and execute them after approval from the faculty. All clinical cases requiring anaesthesia will similarly be guided by proper clinical examination such that the appropriate American Society of Anesthesiologists (ASA) grade would be selected, and the tailor-made selection of pre-anaesthetic, anaesthetic, analgesic and post-anaesthetic drugs will be discussed, supervised and instructed as they develop clinical competencies in this area. They will assist the staff with soft tissue and orthopaedic surgical procedures. They will be trained to perform surgeries like aural haematoma drainage, laceration repair and other minor procedures. At the end of the course, they are expected to perform ovariohysterectomy and castration in dogs and cats independently with confidence.

ASSESSMENT

This course will be assessed using a combination of spotter and oral examinations at the end of rotation, end of semester and phase examination. In addition, they will be assessed based on the elaborate surgery report and anaesthesiology report that they submit on the surgery they assist with.

LEVEL:5

SEMESTER: YEAR LONG

COURSE CODE: VETM 5503

COURSE TITLE: DIAGNOSTIC IMAGING CLINICAL CLERKSHIP

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This clerkship enables the final year veterinary student to practice and develop clinical skills in linking abnormal clinical physical examination findings to choosing the appropriate imaging modality in the diagnosis of diseases of all body systems. For each imaging modality, students will develop the clinical skills required for patient preparation, positioning and interpretation of the images. Competency in operating the specialized equipment e.g., x-ray generator, fluoroscopy, endoscopy and the ultrasound machine will be achieved. An appreciation for the rules that apply to the use of ionizing radiation in the work place will be executed. Students will develop and practice appropriate record keeping and reporting in this area. All students will be rotated through the Diagnostic Imaging Clerkship. This rotation consists of Radiology, Endoscopy and Ultrasonography.

ASSESSMENT

Assessments are face to face and consist of OSCE style practical and oral assessments and timed spotter examinations for each component.

LEVEL:5

SEMESTER: YEAR LONG

COURSE CODE: VETM 5011

COURSE TITLE: AVIAN AND EXOTIC MEDICINE CLINICAL CLERKSHIP

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This clerkship continues the process of developing the student's clinical and diagnostic skills with respect to health and management problems associated with the captive rearing of avian and exotic (A&E) animals. The avian component will emphasize pet birds commonly kept in the Caribbean region as well as poultry (chickens and ducks). The exotic animal component will focus on relevant mammals and reptiles. Mammals will include rabbits and hamsters plus guinea pigs and other Neotropical mammals that are likely to be seen by regional veterinarians. Reptiles will include freshwater turtles (red-eared slider, spot-legged turtle or galap and scorpion mud turtle), tortoises (red-footed and yellow-footed), lizards (green iguana) and snakes (Boas).

ASSESSMENT

This clerkship will be assessed by continuous assessments (30%), a written assessment at the end of semester one (20%) and a final OSCE examination (50%). Students will be evaluated / assessed for each competency based on their ability to perform the specific activity OR demonstrate an understanding of the relevant activity via discussion.

SCHOOL OF PHARMACY

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

BSC PHARMACY

MM – MIXED MODE COURSE CODES

SEMESTERS AND YEARS LISTED ARE FOR FULL-TIME PROGRAMME ONLY

YEAR I COURSES

COURSE TITLE: PHARMACY PRACTICE I

COURSE CODE: PHAR 1201

SEMESTER: 1 & 2

COURSE CREDITS: 5

COURSE DESCRIPTION: *Orientation to the Profession of Pharmacy, Introduction to Dosage Forms (Semester 1, 3 credits)*

This course introduces the student to the profession of pharmacy. It covers the development of pharmacy since the emergence of scientific medicine through the current pharmaceutical care era. It includes the position of pharmacy in the delivery of health care by exploring major issues such as societal, political, philosophical, economic, legal and ethical issues affecting the practice of the profession. It emphasizes the requirements, responsibilities and attitudes that are essential for success as a professional and examines the various career pathways and roles of the pharmacists.

Pharmacy Calculations (Semester 2, 2 Credits)

This course deals with various types of calculations required for compounding and dispensing of medications, including conversions of different units of measurement, interpretation of prescription orders and accurate dosage calculations.

COURSE TITLE: PHARMACEUTICAL CHEMISTRY

COURSE CODE: PHAR 1202

SEMESTER: 1 & 2

COURSE CREDITS: 6

COURSE DESCRIPTION: This course covers the study of organic, inorganic and physical chemistry of chemicals to provide an understanding of chemical structures, physicochemical properties and behaviour of drugs at the molecular level. The course also includes the study of various classes of compounds like alkanes, alkyl halides, alkenes, cyclic aliphatic, aromatic and heterocyclic compounds; stereochemistry and its applications to the activities of pharmaceuticals; chemical reactions of various functional groups; concepts of acidity and alkalinity, solubility, partition coefficient and chemical kinetics; and the use of different classes of inorganic compounds in pharmaceutical/ medicinal applications, including radionuclides. Laboratory experiments are designed to illustrate the applications of these concepts in the analysis of drugs and pharmaceuticals.

COURSE TITLE: INTEGRATED BASIC HEALTH SCIENCES I (Anatomy and Physiology)

COURSE CODE: PHAR 1204

SEMESTER: 1

COURSE CREDITS: 4

COURSE DESCRIPTION: Integrated Basic Health Sciences 1 builds a foundation of knowledge for the understanding of pathophysiology of diseases involving the various organ systems in the human body. Using this acquired knowledge, students will be able to gain a better understanding of the mechanistic actions of drugs on diseases that affect the various organ systems. The course is delivered concurrently with Integrated Basic Health Sciences II (Biochemistry). This course is delivered as a series of lectures, and via Problem Based Learning exercises that shows the functional interrelationship between Anatomy & Physiology and Biochemistry.

COURSE TITLE: INTEGRATED BASIC HEALTH SCIENCES II (Introductory Biochemistry)

COURSE CODE: PHAR 1205

SEMESTER: 1

COURSE CREDITS: 3

COURSE DESCRIPTION: This course introduces students to the basic concepts of biochemistry. The course shows how the science of Biochemistry plays a pivotal role, in the function of the various organs systems within the human body. This integration of Biochemistry with Anatomy & Physiology is further explored in Integrated Basic Health Sciences I, via Problem Based Learning Exercises. Students are encouraged to use the knowledge obtained from both Integrated Basic Health Sciences I & II and apply it to solving problems orientated towards the allied healthcare professional.

COURSE TITLE: INTEGRATED BASIC HEALTH SCIENCES III (Anatomy & Physiology II)

COURSE CODE: PHAR 1206

SEMESTER: 2

COURSE CREDITS: 4

COURSE DESCRIPTION: This course builds on the knowledge acquired from Integrated Basic Health Sciences I & II and introduces the students to the remaining organ systems of the human body. Students will learn about the biochemical, anatomical and physiological aspects of organ systems such as respiratory, urinary, digestive, reproductive and endocrine. In addition, this course is concurrent with The Integrated Basic Health Sciences IV (Community Health). The integration of these basic health sciences is delivered the Problem Based Learning activities that students are required to complete. This type of learning enhances the students' communication skills through group-based learning.

COURSE TITLE: INTEGRATED BASIC HEALTH SCIENCES IV (Community Health)

COURSE CODE: PHAR 1207

SEMESTER: 2

COURSE CREDITS: 1

COURSE DESCRIPTION: The Community Health portion of the Integrated Basic Health Sciences courses, instructs students on the epidemiology of human disease. It focuses on the major diseases and practices that are affecting the Caribbean community, and strategies for their treatment. The general aim of this course is to reach students the importance of community health issues in direct relation to the diseases that afflict humans in society.

COURSE TITLE: INTEGRATED BASIC HEALTH SCIENCES I & II (MM)

COURSE CODE: PHAR 1401 & PHAR 1402

SEMESTER: 1 & 2

COURSE CREDITS: 6 per course

COURSE DESCRIPTION: The study of Basic Health Sciences, including anatomy, physiology and biochemistry, is important for building a strong foundation of knowledge of natural drugs and their actions within the body, and also for further understanding of pathophysiology of diseases involving various organ systems in the body.

These basic medical sciences are taught in an integrated approach, covering various topics such as cells and cell biology; tissues and organ systems like cardiovascular, central and peripheral nervous systems; digestion and metabolism; cardiovascular and renal; respiration; endocrines and reproduction; and muscles, bones and joints. The course also includes community health aspects involving public health, primary care and epidemiology of diseases related to various organ systems.

YEAR II COURSES

COURSE TITLE: MICROBIOLOGY, IMMUNOLOGY AND GENERAL PATHOLOGY

COURSE CODE: PHAR 2105 (MM: PHAR 2401)

SEMESTER: 2

COURSE CREDITS: 3

COURSE DESCRIPTION:

Microbiology. Students are expected to develop knowledge and understanding of the pharmaceutical aspects of microbiology, the nature and use of antibiotics and other antimicrobial agents, and the types and use of antiseptics, disinfectants and preservatives. The course includes a study of microorganisms and the clinical infections they cause; theoretical and practical aspects of active and passive immunization against infectious diseases; classification or range of antimicrobial agents; sterilization methods preventing contamination of pharmaceutical products; and understanding the need for a well-developed strategy for controlling infectious diseases.

Immunology. Incorporates an overview of the immune system (organization of the immune system, innate and acquired immunity, antibodies, including generation of diversity, structure and function relationships, T-cells – structure, function and effects mechanisms); Major histocompatibility antigens, antigen processing and presentation; Overview of cytokines; Immunopathology, including immunodeficiency, hypersensitivity, autoimmunity, transplantation and immunosuppressive modality; and immunization.

General Pathology. Basic pathophysiological and morphological changes that are associated with some common pathological states like cell injury, acute and chronic inflammation, cell growth, oedema, haemorrhage, thrombosis, wound healing, mechanisms of carcinogenesis and characteristics of neoplasms are covered.

COURSE TITLE: PHARMACY PRACTICE II (COMPOUNDING, STERILE PRODUCT PREPARATION)

(MM-PHARMACY PRACTICE I)

COURSE CODE: PHAR 2201 (MM: PHAR 2409)

SEMESTER: 1 & 2

COURSE CREDITS: 4 (MM: 2)

COURSE DESCRIPTION: *Compounding Skills (Semester 1, 2 credits)*

The student receives instructions on the art and science of compounding products that are used for (self) treatment to cure or alleviate specific (dermatological, ophthalmic etc.) conditions as well as for physician-prescribed medicaments. Techniques used in compounding are emphasised to ensure that good manufacturing practices are achieved. Storage and handling, aseptic techniques and preparation, equipment, labelling, expiration dating, documentation and patient counselling are discussed, among other topics.

Sterile Product Preparation (Semester 2, 2 Credits) – (MM: PHAR 2409)

The sterile products laboratory module introduces the students to sterile preparations and intravenous admixtures. Emphasis is placed on the sterile environment, aseptic techniques, effective use of a laminar flow hood, manipulations of the various injectable packages/needles/syringes, dose calculations, incompatibilities, safe compounding/dispensing/administration, quality assurance, the preparation of Parenteral Nutrition and the safe preparation and handling of cytotoxic agents. Student learn the role and responsibilities of the clinical pharmacist in parenteral nutrition prescription and cytotoxic agents' prescriptions.

COURSE TITLE: MEDICINAL CHEMISTRY

(MM-MEDICINAL CHEMISTRY I & II)

COURSE CODE: PHAR 2202 (MM: PHAR 2402 & 2404)

SEMESTER: 1 & 2

COURSE CREDITS: 6 (MM: 3 per course)

COURSE DESCRIPTION: This course has been designed to assist the students in understanding the structure, Structure-Activity-Relationships (SAR), physicochemical and structural basis of drug action; drug sources; mechanisms of drug action; drug design and drug selectivity; drug incompatibility; drug interactions of commonly used drugs affecting autonomic, cardiovascular, central and peripheral nervous, gastrointestinal, blood and renal systems; and also drugs used to prevent or treat various bacterial, viral, protozoal and fungal infections and cancer.

The course also describes how the physical features of the drug such as pKa and partition coefficient, and the chemical features such as conformational and configurational features, contribute to drug activity and affect its administration, distribution, metabolism and excretion.

COURSE TITLE: PHARMACEUTICS I & II

(Includes dosages, form design, biopharmaceutics, new drug delivery systems and devices)

(MM-PHARMACEUTICS)

COURS CODE: PHAR 2212 & PHAR 2213

(MM: PHAR 2408)

SEMESTER: 1 & 2

COURSE CREDITS: 8 (4 per course) (MM:4)

COURSE DESCRIPTION:

Dosage Form Design (Semester 1, 4 credits)

An introduction to the technologic and scientific principles underlying the preparation of dosage forms and drug delivery systems. Students should develop an understanding of the inter-relationship between physical pharmacy principles, biopharmaceutics and dosage form design, including modifying the release pattern of a drug from its dosage form/device (sustained-release, controlled-release and site specific drug delivery systems) and the clinical applications in patient care. Product examples and the applications of each type of dosage forms are emphasised to give the beginner an orientation to pharmacy practices.

Biopharmaceutics, New Drug Delivery Systems and Devices (Semester 2, 4 Credits) – (MM: PHAR 2408)

Biopharmaceutics provides an understanding of the relationship between physical, chemical and biological principles as they apply to drug absorption, distribution, metabolism, excretion and factors that influence the bioavailability of orally administered drugs.

COURSE TITLE: PHARMACEUTICAL ANALYSIS COURSE CODE: PHAR 2106

SEMESTER: 2

COURSE CREDITS: 3

COURSE DESCRIPTION: This course involves the practical application of modern analytical techniques such as spectroscopy and chromatography to the identification and quantisation of drugs and pharmaceutical products.

COURSE TITLE: PHARMACOLOGY

(MM-PHARMACOLOGY I & II)

COURSE CODE: PHAR 2209 (MM: PHAR 2403 & 2405)

SEMESTER: 1 & 2

COURSE CREDITS: 6 (MM-3 per course)

COURSE DESCRIPTION: This course has been designed to assist the students in learning about the most often used medications to treat patients. It will provide a framework for more in-depth study of pharmacology and support the student in learning the names, mechanisms/actions, uses, and side effects of commonly used drugs affecting autonomic, cardiovascular, central and peripheral nervous, gastrointestinal, blood and renal systems, and also of the drugs used to prevent or treat various bacterial, viral, protozoal and fungal infections and cancer.

COURSE TITLE: MICROBIOLOGY, IMMUNOLOGY AND GENERAL PATHOLOGY

COURSE CODE: PHAR 2105 (MM: PHAR 2401)

SEMESTER: 2

COURSE CREDITS: 3

COURSE DESCRIPTION:

Microbiology. Students are expected to develop knowledge and understanding of the pharmaceutical aspects of microbiology, the nature and use of antibiotics and other antimicrobial agents, and the types and use of antiseptics, disinfectants and preservatives. The course includes a study of microorganisms and the clinical infections they cause; theoretical and practical aspects of active and passive immunization against infectious diseases; classification or range of antimicrobial agents; sterilization methods preventing contamination of pharmaceutical products; and understanding the need for a well-developed strategy for controlling infectious diseases.

Immunology. Incorporates an overview of the immune system (organization of the immune system, innate and acquired immunity, antibodies, including generation of diversity, structure and function relationships, T-cells – structure, function and effects mechanisms); Major histocompatibility antigens, antigen processing and presentation; Overview of cytokines; Immunopathology, including immunodeficiency, hypersensitivity, autoimmunity, transplantation and immunosuppressive modality; and immunization.

General Pathology. Basic pathophysiological and morphological changes that are associated with some common pathological states like cell injury, acute and chronic inflammation, cell growth, oedema, haemorrhage, thrombosis, wound healing, mechanisms of carcinogenesis and characteristics of neoplasms are covered.

YEAR III COURSES

COURSE TITLE: PHARMACY PRACTICE III

(MM-PHARMACY PRACTICE II)

PRESCRIPTION DISPENSING AND SITE VISITS (FT only)

DRUG INFORMATION/LITERATURE EVALUATION (FT & MM)

COURSE CODE: PHAR 3201 (MM: PHAR 3406)

SEMESTER: 2

COURSE CREDITS: 5 (MM: 2)

COURSE DESCRIPTION: The course simulates actual pharmacy practice with a problem-solving approach. It is intended as a transition between the didactic course work and later externship and clerkship experiences. It cultivates in the student an ability to utilize professional knowledge to analyze and solve problems that occur in the domains of community and institutional practice. In this process, the student learns to communicate effectively with patients, peers and other health professionals, and exhibits confidence during these interactions.

Drug information and Literature Evaluation (Semester 2, 2 credits) – (MM: PHAR 3406)

Pharmacy Practice seeks to acquaint the student with various information resources, and knowledge to appropriately utilize these references in responding to drug information requests. The course will review the primary, secondary and tertiary literature, indexing and abstracting systems, the systemic search strategy, and the principles of preparing, communicating and documenting the exact information needed for responding to a drug information request in an acceptable and timely manner. Additionally, it is intended that the student would become familiar with electronic databases and the internet.

COURSE TITLE: APPLIED THERAPEUTICS I & II

COURSE CODE: PHAR 3205 & 3206

(MM: PHAR 3401 & 3404)

SEMESTER: 1 & 2

COURSE CREDITS: 6 PER COURSE

COURSE DESCRIPTION: Study of this course involves a description of the basic pathophysiology and clinical manifestations of disease states; how the pharmacological actions of drugs and their pharmacokinetic properties are utilised in the clinical setting to produce therapeutics effect; to explain the toxicities, interactions and contraindications to these drugs; to acquire the skill required to ensure the most effective and efficient use of drugs as therapeutic tools from a knowledge of the desired therapeutic objectives and feasible therapeutic alternatives, by selecting and individualising a drug treatment regimen and by designing a patient monitoring plan to achieve the stated therapeutic goals. It provides opportunities for a student to select, interpret and integrate patient, drug and disease information in order to prevent, detect and resolve drug-related problems.

COURSE TITLE: PHARMACOKINETICS (BASIC & CLINICAL)

(MM – PHARMACOKINETICS I & II)

COURSE CODE: PHAR 3203 (MM: PHAR 3402 & 3405)

SEMESTER: 1 & 2

COURSE CREDITS: 6 (MM: 3 PER COURSE)

COURSE DESCRIPTION: This course aims to provide a basic understanding of the time-course of drug and metabolites in the body, including the time-course of drugs and metabolites in the body, including the quantitative aspects of drug absorption, distribution, metabolism and excretion. Compartmental and non-compartmental treatment of kinetic data, parameter calculations and the applications of these concepts in estimation of loading and maintenance doses will be employed.

Clinical Pharmacokinetics: This course aims to provide an understanding of the potential clinical applications of the principles of pharmacokinetics through presentation and solution of common clinical problems. The students must integrate information from pharmacokinetics, biopharmaceutics and therapeutics to decide how to maximize a patient's drug therapy while minimising untoward effects. The student learns about therapeutic drug level monitoring, how to summarise the influence of other drugs, diseases and patient factors on pharmacokinetic parameter values and make pharmacokinetics-bases dosage alterations.

COURSE TITLE: PHARMACY LAW & ETHICS

COURSE CODE: PHAR 3104

SEMESTER: 1

COURSE CREDITS: 2

COURSE DESCRIPTION: Students will demonstrate communication skills in the use of legal writing and terminology. They would be able to relate a number of Acts and Regulations to the ethico-legal practice of Pharmacy from WHO and a number of Pharmacy Associations, boards and Councils. Students in Trinidad and Tobago will pay special attention to the Food and Drugs Regulations, The pharmacy Board Act, The Antibiotic Ordinance, the Dangerous Drugs Act, the Narcotic Ordinance, The Dangerous Drugs Act, the Narcotic Ordinance, The conditions for registration and removal of a Pharmacist, and the Code of Ethics adopted by the Pharmacy board.

COURSE TITLE: BIOSTATISTICS & RESEARCH METHODOLOGY

COURSE CODE: PHAR 3105 (MM: PHAR 3403)

SEMESTER: 1

COURSE CREDITS: 3

COURSE DESCRIPTION: The Biostatistical module of this course is intended to introduce students to elementary statistical concepts and commonly used analytical tools while providing the rationale underlying their use. More specifically, the course will enable students to understand basic probability concepts and use them; familiarize themselves with statistical reasoning and skills; draw inferences using statistical logic; and use statistical packages for data management and processing. The research methodology module is intended to expose students to basic research designs and principles applicable to medical health fields.

COURSE TITLE: COMPLEMENTARY/ALTERNATIVE MEDICINE & NON-PRESCRIPTION DRUGS

COURSE CODE: PHAR 3106 (MM: PHAR 2407)

SEMESTER: 1

COURSE CREDITS: 3

COURSE DESCRIPTION: The social and scientific foundations of complementary and alternative medicine (CAM) leading to an evidence-based approach are covered in this course. The course covers the safety of complementary and alternative medicine products and practices (herbal products, homeopathy, acupuncture, etc.); common aspects of traditional healing systems across cultures; and overviews of CAM systems, such as ayurvedic medicine, herbal medicine, homeopathy, naturopathic medicine, nutritional biotherapy and traditional Chinese medicine.

Non-Prescription Drugs: This course describes the intention to use non-prescription/Over-The-Counter (OTC) drugs by the prerogative of the lay public to alleviate symptoms of a disease with or without the advice of a physician. Scenarios are used to expound when patient selection of an OTC is appropriate or referral to a physician for consultation is deemed to be in the patient's interest. The Physiology, Pharmacology, Adverse Drug reactions and Patient Counselling with respect to OTCs are covered.

YEAR IV COURSES

COURSE TITLE: PATIENT CARE SKILLS

COURSE CODE: PHAR 4109

SEMESTER: 1

COURSE CREDITS: 2

COURSE DESCRIPTION: This course combines two areas of patient care that will be used by practitioners in patient assessment and management, in clinical and non-clinical settings: patient counselling and clinical care skills. Teaching and assessment approaches utilize didactic lectures, interviews, case studies, patient simulation and clinical practice labs to allow students to develop skills required for medication counselling and basic clinical assessment.

COURSE TITLE: INTRODUCTORY PHARMACY PRACTICE EXPERIENCE

COURSE CODE: PHAR 4110

SEMESTER: 1

COURSE CREDITS: 6 CREDITS

PREREQUISITES: COMPLETION OF ALL COURSES IN YEARS 1, 2 AND 3.

COURSE DESCRIPTION: The experiential aspect of the course is designed to introduce students to the practice pharmaceutical care in collaboration with physicians, nurses and other health care providers on patient care units and in community, through the use of skills in communication, information evaluation and provision, care planning and pharmacy management. Students will develop professional judgement and practise these while gaining an understanding of the extended role and assume responsibility for outcomes of decisions made in providing pharmaceutical care. Rotations in public and community dispensaries will be designed to facilitate learning in pharmacy-based patient care and pharmacy administration. This course supports the mission of the School to produce pharmacy professionals with foundation skills for pharmacy practice.

COURSE TITLE: RESEARCH PROJECT

COURSE CODE: PHAR 4104

SEMESTER: 2 CREDITS

COURSE CREDITS: 2 CREDITS

PREREQUISITES: PASS IN PHAR 3105 – BIOSTATISTICS & RESEARCH METHODOLOGY; PHAR 3201 – DRUG INFORMATION/LITERATURE EVALUATION

COURSE DESCRIPTION: The research project is a full academic year course which provides an opportunity for the student to engage in independent or collaborative research activities by systematic investigation of a topic of interest. They will utilize knowledge gained in the Biostatistics/ Research Methodology and drug information/literature courses to investigate any particular research area. This course will provide real-world research experience and help to develop skills in data collection, data analysis and interpretation, effective communication, problem solving and critical thinking. The student will have the opportunity to choose a topic for the research project, submit a research proposal, obtain the necessary ethical approvals, complete a research project and communicate results both written and orally. Students are expected to work independently and closely with their supervisor(s).

COURSE TITLE: CLINICAL PHARMACY EXPERIENTIAL CLERKSHIP (INPATIENT MEDICINE)

COURSE CODE: PHAR 4203

SEMESTER 2

COURSE CREDITS: 6 CREDITS

**PREREQUISITES: COMPLETION OF ALL COURSES IN YEARS 1, 2 AND 3
PASSES IN PHAR 4109 AND 4110. STUDENTS WHO FAIL THESE COURSES ON THE SECOND ATTEMPT
MUST ATTEMPT AND PASS THEM BEFORE ADVANCING TO CLERKSHIPS.**

COURSE DESCRIPTION: The experiential aspect of the course is designed to allow students to extend the practice pharmaceutical care on patient care units for general medicine and selected specialty, through bedside rotations and application of skills in communication, information evaluation and provision, care planning and pharmacy management. Students will continue to develop professional judgement and practise these while gaining an understanding of the extended role and assume responsibility for outcomes of decisions made in providing pharmaceutical care. Learning will be primarily facilitated by bedside rounds and inpatient pharmacy services. This course supports the mission of the School to produce pharmacy professionals with required skills for institutional pharmacy practice.

COURSE TITLE: CLINICAL PHARMACY EXPERIENTIAL CLERKSHIP II (AMBULATORY MEDICINE)

COURSE CODE; PHAR 4204

SEMESTER: 2

COURSE CREDITS: 6 CREDITS

**PREREQUISITES: COMPLETION OF ALL COURSES IN YEARS 1, 2 AND 3
PASSES IN PHAR 4109 AND 4110. STUDENTS WHO FAIL THESE COURSES ON THE SECOND ATTEMPT
MUST ATTEMPT AND PASS THEM BEFORE ADVANCING TO CLERKSHIPS.**

COURSE DESCRIPTION: The experiential aspect of the course is designed to allow students to practice pharmaceutical care in collaboration with physicians, nurses and other health care providers in outpatient clinics and in community pharmacy, through the use of skills in communication, information evaluation and provision, care planning and pharmacy management. Students will have opportunities to develop an understanding of the extended role of the pharmacist in these settings and assume responsibility for outcomes of decisions made in providing pharmaceutical care. This course supports the mission of the School to produce pharmacy professionals with required skills for community practice.

Patient Counselling (Semester 1, 1 credit)

(MM: PHAR 4407, 2 credits)

Student will be able to practice basic counselling techniques in skills sessions with their peers through role-play and with simulated and real patients seeking pharmaceutical care. They will be able to practice these skills having been provided with information on the counselling process, behaviour in groups and the ethics of counselling.

Introduction to Clerkship (Semester 1, 6 credits)

(MM: PHAR 4407, 2 Credits)

Full-time students would be introduced to pharmacy practice in institutional and community pharmacy practice in institutional and community pharmacy settings. Part-time students will apply management principles and pharmaceutical care approaches to current practice and expand patient care services. All students will be expected to develop an appreciation of the role of pharmaceutical distribution of medicines to patients. They are expected to apply knowledge and skills of communication, professional information, research, patient interviewing and judgement to provision of Pharmaceutical Care and the pharmacist's clinical role in the health care delivery systems.

Clinical Clerkship (Semester 2, 12 credits)

(MM: PHAR 4408, 4409 & 4410)

This course will be delivered as experimental rotations in ambulatory and inpatient settings, as well as community pharmacy. The purpose of the clerkship is to ensure that the integration of classroom knowledge gained in the foundation years is transferred effectively to "hands-on" clinical skills in institutional and ambulatory settings. Students will work alongside experienced practitioners at all levels of health care to develop skills in identifying and resolving drug-related problems, therapeutic monitoring, drug information, services, inventory management and patient care.

COURSE TITLE: PHARMACY PRACTICE III and CLERKSHIPS I-III (MM)

COURSE CODE: PHAR 4407, 4408, 4409, 4410)

**(CLINICAL SKILLS, PATIENT COUNSELLING, INTRODUCTION TO CLERKSHIP/GENERAL/INSTITUTIONAL MEDICINE/
AMBULATORY SERVICES/SPECIALTY**

SEMESTER: 1 & 2

COURSE CREDITS: 4 per course

COURSE DESCRIPTION: Students would be introduced to Clinical Clerkship and the Health Care Team in the institution. They could commence the application of communication skills, professional laws, ethics, counselling, drug therapy monitoring, drug information, research, patient interviewing and judgment to provision of Pharmaceutical Care and the pharmacist's clinical role in the health care delivery systems. They would develop a systematic approach to patient pharmacotherapy monitoring through ward rounds, working in clinics/wards and reviewing/presenting clinical case studies.

Students are taught the skills relevant to Pharmaceutical Care and optimal patient management. Focus is placed on the methods of interviewing a patient, assessing organ systems, interpreting signs and symptoms, performing diagnostic/monitoring tests and conducting life support functions.

Students will be able to practice basic counselling techniques in skills laboratory sessions with their peers through role-play and with simulated and real patients seeking pharmaceutical care. They will be able to practice these skills having been provided with information on the counselling process, behaviour in groups and the ethics of counselling. Students will also appraise modalities of counselling that have been found to be effective in dealing with adherence (compliance), convalescence, rehabilitation, sexuality, family planning, AIDS, substance abuse, bereavement and pharmaceutical care.

PHAR 4408 Clinical Clerkship I:

- General - Adult Inpatient Medicine Rotations (placement in adult inpatient medical wards.)

PHAR 4409: Clinical Clerkship II:

- Ambulatory Medicine Rotations (placement in adult outpatient clinics)

PHAR 4410 Clinical Clerkship III:

- Specialty – Either Paediatric or Obstetrics/Gynecology or Emergency Medicine or Adult Surgical Medicine or Intensive/Critical Care (based on student interest and availability)

COURSE TITLE: PHARMACY ADMINISTRATION

COURSE CODE: PHAR 4102 (MM: PHAR 4402)

SEMESTER: 1

COURSE CREDITS: 4

COURSE DESCRIPTION: An introduction to pharmacy practice environment and professional issues that includes the application of marketing principles of products, pricing and promotion; the use of inventory control concepts to manage inventory and work effectively; how to manage technical personnel with proper human resources management and efficient work delegation and work flow pattern; application of the principles of planning, organizing, communicating, coordinating and controlling to evaluate and propose changes in the operations of pharmaceutical care practice in community, hospital, long-term managed care or other setting; the use of financial statements and financial analysis to diagnose financial and management problems and prepare a budget for a pharmacy; understanding the basic concepts of risk management and rational decisions regarding insurance; applying principles of strategic planning to develop a course of action for any pharmacy; and applying principles of business planning to implement pharmaceutical care services, and evaluate success of service.

COURSE TITLE: PHARMACY SEMINARS

COURSE CODE: PHAR 4103 (MM: PHAR 4401)

SEMESTER: 1

COURSE CREDITS: 2

COURSE DESCRIPTION: Students in groups of five will select a topic of general interest in pharmacy practice, in consultation with the pharmacy practice staff and preceptors, and present it to an audience consisting of students and faculty, including preceptors. Topics may be selected from contemporary issues such as health economics, pharmacoeconomics, pharmacoepidemiology, generic drugs and drug regulatory aspects, contemporary pharmacy practice in the country vis-à-vis practice in other countries, and related areas which may have some impact on the pharmacy profession and clinical cases they have come across during their experiential rotation. Each group will be assessed by faculty and peers.

PHARMACY ELECTIVES

COURSE TITLE: RESEARCH PROJECT

COURSE CODE: PHAR 4403

SEMESTER: 1

COURSE CREDITS: 2

COURSE DESCRIPTION: The research project aims to provide a basic level of training in systematic investigation of a topic of interest to the student. It provides an opportunity to learn about research methods, gain skill in writing a research proposal in an appropriate format, skill in literature survey and to collect the relevant research papers, design the experiment or questionnaire giving due consideration to principles of selection of subjects, inclusion/exclusion criteria, sample size and statistical consideration, collection of data, organising it and representing it in the form of tables or graphs, apply statistical methods wherever required,, transform the data into useful information, discuss the results and draw a conclusion from the whole exercise. Students get an opportunity to report their findings in an appropriate format and style, present orally to an audience and defend their findings.

COURSE TITLE: COMMUNITY PHARMACY PRACTICE MANAGEMENT

COURSE CODE: PHAR 4105

SEMESTER: 1

COURSE CREDITS: 2

COURSE DESCRIPTION: This course explores selected topics in the organisation and operation of a retail pharmacy. Topics include organising and financing a pharmacy, examining the economic and political environment, marketing pharmaceutical services, assessing automation and computerising the pharmacy and other current issues. The goal is to provide the knowledge and managerial skills to succeed in a competitive marketplace. The community practice of pharmacy also entails the clinical responsibility for the safe and appropriate use of drugs, and the control of the patient's overall medication profile within the framework of pharmaceutical care.

COURSE TITLE: INSTITUTIONAL PHARMACY PRACTICE MANAGEMENT

COURSE CODE: PHAR 4106 (MM: PHAR 4404)

SEMESTER: 1

COURSE CREDITS: 2

COURSE DESCRIPTION: The student is introduced to hospital pharmacy management and to the services frequently associated with hospital pharmacy. The director of the pharmacy coordinates the services and activities of the pharmacy department with other departments. The pharmacy is responsible for the procurement, storage, compounding, manufacturing, packaging, dispensing, distribution and monitoring of medications through drug therapy management for hospitalised and ambulatory patients by legally qualified and professionally competent pharmacists. The hospital practice of pharmacy also includes clinical responsibility for the safe and appropriate use of drugs and control of the patient's overall drug regimen within the framework of Pharmaceutical Care.

COURSE TITLE: CLINICAL TOXICOLOGY

COURSE CODE: PHAR 4107 (MM: PHAR 4406)

SEMESTER: 1

COURSE CREDITS: 2

COURSE DESCRIPTION: Students will be able to recall the basic principles of toxicology and the molecular mechanisms in toxicity. Students will be able to relate the acute poisoning, toxicities of drugs, noxious industrial chemicals, household and agricultural products, drugs of abuse and environmental toxicology to relevant mechanisms.

COURSE TITLE: PHARMACOECONOMICS

COURSE CODE: PHAR 4108 (MM: PHAR 4406)

SEMESTER: 1

COURSE CREDITS: 2

COURSE DESCRIPTION: Pharmacoeconomics attempts to identify, measure, evaluate and improve the effectiveness of health care and to control the cost of inappropriate care. Emphasis is placed on greater accountability of providers, who must accept responsibility for meeting society's goal of high-quality care at an affordable price. The student must understand that care includes both the direct medical costs and benefits associated with therapeutic options and the indirect or out of pocket costs borne by patients, their families and employers.

SCHOOL OF NURSING

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

BSc NURSING (Pre-registration)

LEVEL: 1

SEMESTER: 1

COURSE CODE: NURS 1004

COURSE TITLE: COMMUNICATION SKILLS WRITING

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course is designed to help students to critically engage with texts, research and write effective essays for academic audiences, and participate intelligently in oral and written discussions on a variety of topics, while developing an understanding of the linguistic context in which they operate in the Caribbean. Students in the social sciences are expected to demonstrate an awareness of the emphasis and perspective of their discipline. The course aims to provide students with requisite techniques for reviewing, questioning, analysing texts related to the social sciences. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs, e.g., through Problem Based Learning (PBL) activities and active participation in both classroom and clinical areas. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 1

COURSE CODE: NURS 1109

COURSE TITLE: HUMAN ANATOMY & PHYSIOLOGY I

NUMBER OF CREDITS: 5

PREREQUISITE(S): NIL

COURSE DESCRIPTION: An organ to system approach, the correlation between anatomical structure and physiological functions, the interaction of chemicals, tissues, organs and organ systems in the maintenance of homeostasis is presented in this course. The course is divided into two parts. Part 1 introduces anatomy and physiology and focus on the integumentary, musculo-skeletal, nervous, endocrine, and respiratory systems. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs, e.g., through activities and active participation in both classroom and laboratory areas. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 1

COURSE CODE: NURS 1110

COURSE TITLE: BIOCHEMISTRY

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: The course also allows the student to explore biochemical reactions affecting homeostasis and to discuss concepts and functions pertinent to the chemistry of the human body. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs, e.g., through Problem Based Learning (PBL) activities and active participation in both classroom and clinical areas. The course will be assessed by a variety of formative and summative assessments.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 1

COURSE CODE: NURS 2010

COURSE TITLE: INTRODUCTION TO PROFESSIONAL NURSING

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course introduces students to the evolution of nursing and nursing practice as a profession. It examines the theories of nursing, nursing as a profession and the requirements for practicing as a Registered Nurse. The historical, philosophical, scientific, ethical and legal bases for the profession are explored. Students will critically analyse the influence of religious, military, socioeconomic, geopolitical, legislative, technological, scientific and organizational factors on the development of the profession. The impact of nursing legends on the advancement of nursing locally, regionally and internationally will also be explored. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs. The course will be assessed by a variety of formative and summative assessments.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 1

COURSE CODE: SOCI 1002

COURSE TITLE: SOCIOLOGY OF THE CARIBBEAN

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course provides an introduction to the problems, issues, themes and main ideas of sociology. It is intended to provide basic social facts about the Caribbean and other similar developing societies, and to enable students to adopt a scientific approach to understanding and interpreting social phenomena. Sociology for the Caribbean lays the foundation upon which advanced academic work in sociology and the other social sciences can be built. Furthermore, the course enables students to tackle contemporary policy problems in a theoretically and empirically informed manner. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 30%

Final Exam: 70%

LEVEL: 1

SEMESTER: 1

COURSE CODE: PSYC 1000

COURSE TITLE: INTRODUCTION TO PSYCHOLOGY: DEVELOPMENTAL, SOCIAL, ABNORMAL

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This is an introductory level or foundational survey course, which provides an introduction to psychology. Psychology is a discipline concerned with human thought, emotion, and behaviour. The science and practice of psychology are based on knowledge developed from both human and animal research. The course will therefore introduce many key topics, and specifically those in the sub-fields of developmental, abnormal, and social psychology. After a brief introduction to the history of the discipline and the research methods that provide the foundation for psychological investigation and knowledge building, the focus will be on the subareas of developmental, personality, and social psychology. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs. The course is assessed by course work and a final examination.

ASSESSMENT:

Coursework: 30%

Final Exam: 70%

LEVEL: 1

SEMESTER: 2

COURSE CODE: NURS 1005

COURSE TITLE: COMMUNICATION SKILLS INTERPERSONAL

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course is designed to enhance students' competencies in interpersonal interactions in the broad sense whether it be with patients, their families, other members of the healthcare team, and the community. The course will provide a theoretical framework through which students can understand human interaction and then apply that understanding to the nursing/healthcare context with the ultimate aim of improving patient care outcomes and quality of experience. Course assessment is done using a variety of formative assessments.

ASSESSMENT:

Coursework: 100%

COURSE CODE: NURS 1111

COURSE TITLE: MICROBIOLOGY

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: An introduction to the history of microbiology, eukaryotic and prokaryotic cell structure and taxonomy, the course also covers the diversity of microbes, as well as their nutritional needs, growth and reproduction. In addition, the course focuses on the control of microbes by physical and chemical agents, microbial ecology, pathogenicity, immunity and immune response. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs, e.g., through Problem Based Learning (PBL) activities and active participation in both classroom and clinical areas. Laboratory exercises are included. The course is assessed by a variety of course work and final examinations.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 2

COURSE CODE: NURS 1114

COURSE TITLE: HUMAN ANATOMY & PHYSIOLOGY II

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: Human Anatomy and Physiology II is a continuation of Human Anatomy and Physiology 1. The course examines the structure and function of the cardiovascular, lymphatic, digestive, urinary, and reproductive systems. Laboratory exercises will allow the students to focus on the examination of selected parts of these systems through histological and skeletal preparations. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs through active participation in both classroom and laboratory areas. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 2

COURSE CODE: NURS 2011

COURSE TITLE: HEALTH PROMOTION

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course explores concepts of health, primary health care, health promotion, health protection and illness prevention throughout the lifespan. It introduces the student to factors influencing health and wellness and the strategies for promotion and maintenance of health in the individual, family, and community. Concepts, models and strategies of health promotion including international, regional and national policies, charters and declarations, as well as issues and barriers to health promotion are explored. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 2

COURSE CODE: NURS 2014

COURSE TITLE: COMMUNITY HEALTH NURSING

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course introduces the student to the foundations of community-based nursing, focusing on health of the family and community. Principles, theories, and concepts of community health are utilized to generate an understanding of the roles and functions of community health nurses. Cultural, lifestyle, socioeconomic, environmental, epidemiological influences and community resources on health promotion and protection in individuals, families and communities are examined. The related clinical practicum is provided in Community Health Nursing Clinical Practicum. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs through active participation in both classroom. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 2

COURSE CODE: FOUN 1101

COURSE TITLE: CARIBBEAN CIVILISATION

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course is designed to give students a survey of the Caribbean's history and culture, commencing with the arrival of the Neo-Indian peoples (ca. 5000 BCE) through to the present-day Caribbean. The course stresses the commonality of the region, comprising more than individual island nations or linguistic groups. The idea of civilization is key to comprehending the Caribbean's progression through time and will play an important role in understanding the cultural, economic, social and intellectual trends and their supportive institutions that have emerged in the Caribbean. While the course focuses on the similarities in the Caribbean, it also highlights the differences that have emerged because of colonialism, demography, climate and historical progress. The course aims to stimulate students' interests in the concept of a Caribbean civilization and places it within the context of understanding their individual lives and the lives of those around them. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs, e.g., through active participation in both classroom and clinical areas. The course is assessed by course work and a summative assessment as a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 3

COURSE CODE: NURS 2015

COURSE TITLE: COMMUNITY HEALTH NURSING PRACTICUM

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course focuses on community health and community health nursing in the community. Guided clinical experiences are provided at selected community-based agencies and organizations to enable students to assess the health of a community, practice health teaching, and observe the role of members of the health team in the practice environments. Students will demonstrate progressive independence in selected areas of experience in the community. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs, e.g., through Problem Based Learning (PBL) activities and active participation in clinical areas. Assessment of this course will be by course work only.

ASSESSMENT:

Coursework: 100%

LEVEL: 2

SEMESTER: 1

COURSE CODE: NURS 1112

COURSE TITLE: PATIENT HEALTH CARE & WORKER SAFETY

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This theory and clinical practice course provides the student with key concepts and principles of infection prevention and control, injection safety, and blood safety, which are fundamental to safe nursing practice. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs activities and active participation in both classroom and clinical areas. Laboratory exercises are included. Assessment of the course is by means of formative assessments and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 1

COURSE CODE: NURS 1115

COURSE TITLE: NUTRITION

NUMBER OF CREDITS: 2

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course introduces the students to the principles of human nutrition and current dietary trends across the lifecycle. It emphasizes nutrients, food sources and functions in the body, nutrients and the relationship to health throughout the lifespan of the Caribbean people with a focus on Jamaica. Content includes cultural and economic influences on dietary practices. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs, e.g., through Problem Based Learning (PBL) activities and active participation in both classroom and clinical areas. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 1

COURSE CODE: NURS 1116

COURSE TITLE: EPIDEMIOLOGY

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course introduces the student to the key concepts of epidemiology. It examines the modes of disease transmission characteristics of communicable diseases, methods of prevention, at the local, regional and international levels. Students will be guided in the identification of sources of data, the use of appropriate measures of calculations, the analysis and interpreting of data and the application of findings to infection prevention and control. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs, e.g., through Problem Based Learning (PBL) activities and active participation in both classroom and clinical areas. Assessment is by a variety of course work and a final examination

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 1

COURSE CODE: NURS 2012

COURSE TITLE: HUMAN PATHOPHYSIOLOGY

NUMBER OF CREDITS: 3

PREREQUISITE(S): Successful completion of NURS 1109 and NURS 1114

COURSE DESCRIPTION: A study of the structural and physiological changes occurring in the body as a result of disease processes. The course introduces students to the concepts of abnormality and provides information on the sequel of diseases, alterations in body structure, body functions, and associated clinical manifestations. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs, e.g., through Problem Based Learning (PBL) activities and active participation in both classroom and clinical areas. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 1

COURSE CODE: NURS 2013

COURSE TITLE: THE NURSING PROCESS & HEALTH ASSESSMENT

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course introduces the student to the nursing process and health assessment of well individuals throughout the lifecycle. The nursing process framework is used for interviewing, data collection and performing physical assessment. Opportunities are provided for students to engage critical thinking skills in data collection and health assessment with healthy individuals of all ages through interviewing and performing physical examination. The importance of cultural, gender and religious diversity in health assessment and the provision of health and nursing care are introduced. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs. Laboratory exercises are included. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 2

COURSE CODE: NURS 1113

COURSE TITLE: HEALTH INFORMATICS

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course introduces the student to health informatics. Emphasis is placed on current trends and concerns in information management in healthcare including legal, social, cognitive and economic issues. It also links information with the utilization of technology to support nursing practice and assists learners to contribute to the development of information systems to promote quality in nursing care. Students will apply critical thinking skills to examine the various ways in which technology can support evidence-based information to improve the quality of nursing care. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs, e.g., through) activities and active participation in classroom and laboratory areas. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 2

COURSE CODE: NURS 2016

COURSE TITLE: DIET THERAPY

NUMBER OF CREDITS: 2

PREREQUISITE(S): SUCCESSFUL COMPLETION OF NURS 1115

COURSE DESCRIPTION: The focus of this course is dietary management of common nutritional problems found in individuals, families and communities. Emphasis will be placed on the dietary management of individuals with diabetes mellitus, cardiovascular and renal diseases, malnutrition, burns, and obesity. Diet management is applied throughout the respective nursing courses. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs through activities and active participation in classroom. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 2

COURSE CODE: NURS 2017

COURSE TITLE: FIRST AID AND BASIC LIFE SUPPORT

NUMBER OF CREDITS: 3

PREREQUISITE(S): SUCCESSFUL COMPLETION OF NURS 1109, NURS 1114 AND NURS 2012

COURSE DESCRIPTION: This course provides students with the knowledge of the principles of managing first aid in emergency situations in the home, community and health care facilities. The purpose of this course is to provide the student nurse with the necessary skill set to manage first aid and life support situations that the student may encounter. The general goal of this course is to develop the abilities of individuals to think critically and make reasonable judgements, when taking action to deal with situations requiring first aid or life support measures. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs through activities and active participation in both classroom and laboratory areas. Laboratory exercises are included. Assessment is by course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 2

COURSE CODE: NURS 2018

COURSE TITLE: PHARMACOLOGY AND THERAPEUTICS IN NURSING

NUMBER OF CREDITS: 3

PREREQUISITE(S): SUCCESSFUL COMPLETION OF NURS 2012

COURSE DESCRIPTION: This course introduces the student to pharmacological sciences with respect to drug origin and administration. It exposes students to the legal and ethical responsibility and accountability inherent in the nursing functions related to the administration of drugs, as well as the cultural, social and psychological aspects of drug therapy. Emphasis is placed on safety and accuracy in administering prescribed medication dosages to persons throughout the life cycle and along the wellness-illness continuum. Part 1 gives the history of pharmacology. The classification of drugs, their actions in the body and their therapeutic use is covered in Part 2. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs through activities and active participation in classroom. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 2

COURSE CODE: NURS 2019

COURSE TITLE: CONCEPTS APPLIED TO NURSING

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course introduces the student to basic nursing skills. It focuses on concepts of caring, body image, pain, loss, grief and the grieving process, dying and death, immobility and chronicity. The student is introduced to hospitalization and the nurse's responsibility in relation to surgical interventions is also examined. This course serves to give the student information on human concepts such as caring, pain etc. that clients experience as part of hospitalisation. This information will enhance their understanding or their roles as care giver. Students will develop into empathetic practitioners with knowledge of human concepts that can impact on the health and wellness of individuals, families and communities. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 2

COURSE CODE: SOCI 1005

COURSE TITLE: INTRODUCTORY STATISTICS FOR BEHAVIOURAL SCIENCES

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course aims to introduce students to basic univariate and bivariate statistics. A student who successfully completes this course will possess a reasonable level of knowledge of basic statistics and their interpretations. The course introduces students to basic statistics, which lays part of the foundation for the nursing research thesis. Students will become competent and comfortable using and interpreting statistics, for the purpose of enhancing evidence- base practice. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs activities and active participation in the classroom. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 3

COURSE CODE: NURS 2020

COURSE TITLE: CONCEPTS APPLIED TO NURSING PRACTICUM

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course provides an opportunity for students to implement selected basic nursing skills relative to the course Concepts Applied to Nursing in acute care and community settings. The focus of the course is to assist students develop competence and confidence in the application of basic skills prior to progressing to more advanced clinical nursing courses. Basic clinical skills are practiced in the Nursing Skills Laboratory prior to engaging in clinical experience in the health care and community settings. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs through activities and active participation in clinical areas. Assessment in this course is by course work only.

ASSESSMENT:

Coursework: 100%

LEVEL: 3

SEMESTER: 1

COURSE CODE: NURS 3010

COURSE TITLE: RESEARCH METHODOLOGY

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course exposes the students to the scientific method of enquiry and its relevance in investigating phenomena in health care. It engages students in critical thinking to critique published research findings and theoretical frameworks that have applicability to nursing practice. The course facilitates the development of students' competencies in using the research process; using inferential statistics and transferring evidence-based knowledge to practice. The course also exposes students to ethical frameworks for conducting research and using evidence-based knowledge. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs. Assessment is by course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 3

SEMESTER: 1

COURSE CODE: NURS 3011

COURSE TITLE: MENTAL HEALTH NURSING

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course focuses on mental health, as well as the basic psychopathology of mental disorders of individuals and families throughout the lifecycle who are experiencing varying states of mental health. The environmental influences affecting the mental health of the individual are examined within the context of the family and/or community. The nurse/patient relationship is emphasized as the foundation for therapeutic communication and nursing interventions. Collaboration with other health team members and/or community resources is explored as a way to address the needs of the individual and family using various treatment modalities. Students are expected to apply critical thinking skills and evidence-based knowledge to patient situations in the clinical settings during the Mental Health Nursing Clinical Practicum course. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 3

SEMESTER: 1

COURSE CODE: NURS 3012

COURSE TITLE: MENTAL HEALTH NURSING PRACTICUM

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This practicum emphasizes mastery in the application of the nursing process in caring for individuals across the life cycle, families and communities with mental health problems. It engages the students in independent and supervised evidence-based practice specific to mental health nursing. Interpersonal relationship, critical thinking and problem-solving skills are considered pivotal to efficient and accurate assessing, planning, implementing and evaluating therapeutic nursing interventions in the clinical settings, both hospitals and community health facilities. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs through active participation in the clinical areas. Assessment is by a variety of course work examinations.

ASSESSMENT:

Coursework: 100%

LEVEL: 3

SEMESTER: 1

COURSE CODE: NURS 3013

COURSE TITLE: NURSING CARE FOR ADULTS

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This course focuses on common health problems affecting the adult (ages 19-64 years). It facilitates students' development of an evidence-based framework to inform nursing practice in caring for adults along the wellness-illness continuum. The course engages students' critical thinking in decision-making to deliver nursing care in various clinical settings. Emphasis is placed on the nursing process as central to patient-focused care. The ethical and legal frameworks will be integrated into the caring approach to care. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 3

SEMESTER: 1

COURSE CODE: NURS 3014

COURSE TITLE: NURSING CARE FOR ADULTS PRACTICUM

NUMBER OF CREDITS: 3

PREREQUISITE(S): NIL

COURSE DESCRIPTION: This clinical practicum course focuses on safe, ethical and legal care of the adult (19-64 years) patient in all health care settings. It provides the student with foundational clinical experiences necessary for the management of adult health, including health promotion, illness prevention and treatment, utilizing the nursing process, critical thinking and evidence-based practice in the assessment and management of adult patients with common health conditions of related body systems. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs through active participation in clinical areas. Assessment in this course is by course work examinations.

ASSESSMENT:

Coursework: 100%

LEVEL: 3

SEMESTER: 2

COURSE CODE: NURS 3015

COURSE TITLE: NURSING CARE OF OLDER ADULTS

NUMBER OF CREDITS: 3

PREREQUISITE(S): SUCCESSFUL COMPLETION OF YEARS 1 AND 2 COURSES

COURSE DESCRIPTION: This course critiques and applies social and biological theories of ageing (65 years and over) and psychosocial models of growth and development to the study of older adults in a variety of acute and long-term care, and community facilities. It focuses on factors, which encourage healthy ageing. Epidemiological, demographic and socio-economic determinants are explored, as well as issues and implications of physiological, emotional and psychological changes and community initiatives and resources. International and national declarations and standards are applied to meet the needs of the older adult patient. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs through activities and active participation in both classroom and clinical areas. Assessment in this course is by course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 3

SEMESTER: 2

COURSE CODE: NURS 3016

COURSE TITLE: NURSING CARE OF OLDER ADULTS PRACTICUM

NUMBER OF CREDITS: 3

PREREQUISITE(S): SUCCESSFUL COMPLETION OF YEARS 1 AND 2 COURSES

COURSE DESCRIPTION: The application of health and nursing concepts and theories in the care of the older adult patient and family. Emphasis is on practicing interdisciplinary health care and advocacy in order to promote health and prevent illness, disability and disease of the older adult. The role of the nurse in assisting the older adult to maintain wellness and minimize effects of chronic conditions is also stressed. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs through activities and active participation in clinical areas.

Assessment is by course work.

ASSESSMENT:

Coursework: 100%

LEVEL: 3

SEMESTER: 2

COURSE CODE: NURS 3017

COURSE TITLE: PARENT CHILD NURSING

NUMBER OF CREDITS: 3

PREREQUISITE(S): SUCCESSFUL COMPLETION OF YEARS 1 AND 2 COURSES

COURSE DESCRIPTION: This course focuses mainly on the child-bearing family and specifically on healthy mothers and well neonates. It engages the student in critical thinking and application of evidence-based practice in parent and child health. It prepares students to demonstrate caring in delivering appropriate and effective nursing care to the parents during the normal pre-pregnancy period, parental and foetal health during pregnancy, labour, delivery and the puerperium. Emphasis is placed on foetal and neonatal transitions and neonatal life. Social, cultural, traditional and contemporary influences, sexuality, parenting and family life, gender issues, ethical and legal issues are explored as are health education, health promotion and family planning. Students will spend time in the clinical settings observing and providing ethical and legal care for the childbearing family. Related clinical practicum skills are provided in the associated Parent Child Nursing Clinical Practicum. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs, through activities and active participation in both classroom and clinical areas. Assessment in this course is by course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 3

SEMESTER: 2

COURSE CODE: NURS 3018

COURSE TITLE: PARENT CHILD NURSING PRACTICUM

NUMBER OF CREDITS: 3

PREREQUISITE(S): SUCCESSFUL COMPLETION OF YEARS 1 AND 2 COURSES

COURSE DESCRIPTION: This course provides the experience for the student to integrate theory and skills in the nursing interventions for parental and foetal health during pregnancy, childbirth and the post-partum periods, and the neonate up to 28 days of life. Practice settings include inpatient hospital settings, health care centres/clinics, as well as supportive community agencies. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs through activities and active participation in clinical areas. Assessment is by coursework only.

ASSESSMENT:

Coursework: 100%

LEVEL: 4

SEMESTER: 1

COURSE CODE: NURS 4010

COURSE TITLE: NURSING CARE FOR CHILDREN & ADOLESCENTS

NUMBER OF CREDITS: 3

PREREQUISITE(S): SUCCESSFUL COMPLETION OF YEARS 1, 2 AND 3 COURSES

COURSE DESCRIPTION: This course focuses on common health conditions affecting children and adolescents (ages 0-18). It facilitates students' development of a sound evidence-based framework to inform nursing practice in caring of children, adolescents and their families along the wellness-illness continuum. The course will engage students' critical thinking in decision-making to deliver nursing care for children in various clinical settings. Particular emphasis is placed on the unique developmental needs of each age group and on the ethical and legal aspects that are relevant to paediatric nursing. Approaches to teaching, learning and assessment will be done not only in classrooms, but also in skill lab, children wards of the hospitals, basic schools, in the community areas, and mentally & physical challenged institutions. Students will utilize the nursing process as the central component to patient focused care and the ethical/legal framework, which will be integrated into caring and approaches to care. Assessment in this course is by course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 4

SEMESTER: 1

COURSE CODE: NURS 4011

COURSE TITLE: NURSING CARE FOR CHILDREN & ADOLESCENTS PRACTICUM

NUMBER OF CREDITS: 3

PREREQUISITE(S): SUCCESSFUL COMPLETION OF YEARS 1, 2 AND 3 COURSES

COURSE DESCRIPTION: This practicum course concentrates on health maintenance and the prevention of illness and care of the child 1 month to 18 years with common health problems. The practicum provides opportunities for students to provide nursing care that is adapted to the unique health and developmental needs of children and their families in Trinidad & Tobago. Additionally, the practicum promotes critical thinking and application of evidence-based practice to nursing care management along the wellness-illness continuum, unique to the named stages of human development in the clinical settings. Assessment in this course is by course work examinations.

ASSESSMENT:

Coursework: 100%

LEVEL: 4

SEMESTER: 1

COURSE CODE: NURS 4012

COURSE TITLE: NURSING CARE FOR PATIENTS IN SPECIALIZED SETTINGS

NUMBER OF CREDITS: 3

PREREQUISITE(S): SUCCESSFUL COMPLETION OF YEARS 1, 2 AND 3 COURSES

COURSE DESCRIPTION: This course provides information on the organisation, structure, functions, personnel and care of patients in the specialized units, namely the Operating Theatre, Recovery Room, and Intensive Care Unit. Accident and Emergency/Trauma Management, Disaster preparedness including emergency management. The course will engage students' critical thinking in decision-making to deliver nursing care for critically ill patients in critical care settings. Particular emphasis is placed on the seriously ill patients' needs of all age group and on the ethical and legal aspects that are relevant to intensive nursing care. Students also learn perioperative care of patients, theatre techniques including different types of sterilization and different types of anaesthetics. Approaches to teaching, learning and assessment will be done not only in classrooms, but also in skill lab, Intensive care units of the hospitals. Students will utilize the nursing process as the central component to patient focused care and integrated while providing care. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 4

SEMESTER: 1

COURSE CODE: NURS 4013

COURSE TITLE: NURSING CARE FOR PATIENTS IN SPECIALIZED SETTINGS PRACTICUM

NUMBER OF CREDITS: 3

PREREQUISITE(S): SUCCESSFUL COMPLETION OF YEARS 1, 2 AND 3 COURSES

COURSE DESCRIPTION: This course provides skills on the organisation, structure, functions, personnel and care of patients in the specialized units, namely the Operating Theatre, Recovery Room, and Intensive Care Unit. Accident and Emergency/Trauma Management, Disaster preparedness including emergency management. The course will engage students' expertise in decision-making to deliver nursing care for critically ill patients in critical care settings.

Students also earn skills on perioperative care of patients, theatre techniques including different types of sterilization and different types of anaesthetics. Approaches to teaching, learning and assessment will be done in skill lab, specialized units at different care sites. Students will utilize the nursing process as the central component to patient focused care. Assessment is by a variety of course work examinations.

ASSESSMENT:

Coursework: 100%

LEVEL: 4

SEMESTER: 2

COURSE CODE: NURS 4014

COURSE TITLE: RESEARCH PROJECT

NUMBER OF CREDITS: 3

PREREQUISITE(S): SOCI 1005, NURS 3010, SUCCESSFUL COMPLETION OF YEARS 1 AND 2 COURSES

COURSE DESCRIPTION: This course provides students with mentorship and supervision in using the research process and evidence-based approach to conduct a small research study using the proposal developed in Research Methodology. Students are expected to collect data using an approved instrument, analyse and interpret data and write a project report. This small study observes the scientific rigour of larger studies. Students will be able to conduct research studies independently in any given area. They will be able to perceive the research problem and conduct scientific investigations using appropriate research designs, sampling methods and statistical measurements.

ASSESSMENT:

Coursework: 100%

LEVEL: 4

SEMESTER: 2

COURSE CODE: NURS 4015

COURSE TITLE: LEADERSHIP AND MANAGEMENT IN NURSING

NUMBER OF CREDITS: 3

PREREQUISITE(S): Successful completion of Years 1, 2 and 3 courses

COURSE DESCRIPTION: This course explores basic management and leadership concepts, theories, processes and systems, and their application to the health care system. It prepares the graduates for assuming leadership and management roles as first line managers within the social, legal and economical contexts of a fiscally constrained health service. The role of the nurse as a supervisor, leader, change agent and manager is emphasized. Current issues, opportunities and challenges for nursing leadership in different nursing, community and organizational venues are included. The course will engage students' critical thinking and decision-making while assuming leadership roles through applying principles of theories. With the knowledge of leadership theories and processes, Students will be able to manage given leadership roles as a supervisor, change agent and manager. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs through activities and active participation in both classroom and clinical areas. Assessment is by course work and a final examination.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 4

SEMESTER: 2

COURSE CODE: NURS 4016

COURSE TITLE: LEADERSHIP AND MANAGEMENT IN NURSING PRACTICUM

NUMBER OF CREDITS: 4

PREREQUISITE(S): SUCCESSFUL COMPLETION OF YEARS 1, 2 AND 3 COURSES

COURSE DESCRIPTION: The application of the concepts and theories of the Leadership and Management in Nursing course to the management of patient care units. All previously learned knowledge and skills will be integrated in the practicum. Students will apply leadership skills and patient care management theories in managing patient care units. It prepares the graduates for assuming leadership and management roles as first line managers within the social, legal and economical contexts of a fiscally constrained health service. The role of the nurse as a supervisor, leader, change agent and manager is emphasized. The course will engage students' critical thinking and decision-making while assuming leadership roles through applying principles and theories. Approaches to teaching, learning and assessment will be done in skill lab, and at health care facilities. Assessment is by course work only.

ASSESSMENT:

Coursework: 100%

LEVEL: 4

SEMESTER: 3

COURSE CODE: NURS 4017

COURSE TITLE: CLINICAL INTERNSHIP

NUMBER OF CREDITS: 3

PREREQUISITE(S): SUCCESSFUL COMPLETION OF YEARS 1, 2 AND 3 COURSES

COURSE DESCRIPTION: This clinical internship course provides students the opportunity for integration and synthesis of previous knowledge, skills and professional role behaviours acquired in the BSc N programme. The experience will bridge the gap between undergraduate education and 'real life' professional nursing practice, by assisting the student to transition to an independent, competent professional. The student will be supported in consolidation of clinical and leadership skills to work collaboratively within a multidisciplinary team. The practicum experience will also allow students to analyze the broad gender, cultural, environmental, socioeconomic, and political systems that contribute to health status and outcomes, health policies, and health care delivery systems of Trinidad and Tobago. Students will develop skills while providing care to different types of patients admitted in the hospitals. Students will gain experience in managing different varieties of clinical settings. They develop expertise in leadership roles as managers and supervisors

LEVEL: 4

SEMESTER: 3

COURSE CODE: NURS 4018

COURSE TITLE: SENIOR NURSING REVIEW

NUMBER OF CREDITS: 3

PREREQUISITE(S): SUCCESSFUL COMPLETION OF YEARS 1, 2 AND 3 COURSES

COURSE DESCRIPTION: The focus of this senior review is the preparation for the Regional Examination for Nurse Registration (RENr). The review will cover all courses taught in the curriculum. Students will be provided with an overview of the RENr process, as well as strategies for preparation for, and sitting of the examination. There will be a mock examination and a period for remedial work if necessary. Students will study all the subjects thoroughly while clearing all doubts with teachers and will be able to appear examination-ready for successful results. Assessment is through a mock RENr examination.

BSC NURSING (Post registration)

LEVEL: 1

SEMESTER: 1

COURSE CODE: NURS 1100

COURSE TITLE: INTEGRATED BASIC HEALTH SCIENCES FOR NURSES I

NUMBER OF CREDITS: 5

PREREQUISITE(S):

COURSE DESCRIPTION: This course is the first of two courses which develops on prior knowledge of anatomy and physiology. Students are facilitated to acquire in-depth knowledge and understanding of the principles of genetics, fluid, electrolyte and acid-base balance. In addition, the cell and tissue biology module provides a foundation for the discussion of the structure and function in the immune and nervous systems.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 1

COURSE CODE: NURS 1201

COURSE TITLE: PATHOPHYSIOLOGY/IMMUNOLOGY & GENETICS I

NUMBER OF CREDITS: 3

PREREQUISITE(S):

COURSE DESCRIPTION: This is an online course which focuses on general concepts, principles and processes of pathophysiology, immunology and genetics. It creates an understanding of altered body processes as occurs in some common disease conditions from the cellular to the systemic level.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 1

COURSE CODE: NURS 1500

COURSE TITLE: NURSING INFORMATICS

NUMBER OF CREDITS: 3

PREREQUISITE(S): COMPUTER LITERACY

COURSE DESCRIPTION: The course introduces nurses to the roles of computer information and communication technologies in the delivery of efficient health care (in relation to patients, problems and procedures) and for research. Students will acquire technical competence in health information management as they collect, retrieve and manipulate health data, for use in communication, planning and decision-making. A thorough exploration of the need for nursing information standards and systems will be encouraged.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 1

COURSE CODE: NURS 2502

COURSE TITLE: CLINICAL EPIDEMIOLOGY & BIOSTATISTICS

NUMBER OF CREDITS: 3

PREREQUISITE(S):

COURSE DESCRIPTION:

Epidemiology: This will provide students with the ability to develop a systematic understanding of how the evidence-based for patient care is developed and assessed.

Biostatistics: This course focuses on health statistics as a basis for epidemiological methods used by health care managers to assess health trends and situations, and monitoring of the process of the various interventions. The objective of this course is to introduce students to the role of statistics in health science, health care delivery, the study of human population, and management on uncertainty.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 2

COURSE CODE: NURS 1202

COURSE TITLE: HEALTH ASSESSMENT

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 1201, NURS 2201, NURS 1100, NURS 2100

COURSE DESCRIPTION: This course is designed to provide the nursing student with advanced knowledge and health **assessment** skills utilising the nursing process. Focus is on acquiring, analysing, and refining of health **assessment** data as a basis for the development of an accurate nursing and medical problem list. Common normal variations and abnormalities characteristic of different developmental, cultural and ethnic groups are considered throughout the course. The laboratory portion of the course allows the students to practice advanced **assessment** skills using simulators and peers as clients in the laboratory, and patients/clients in hospital/clinics and schools.

ASSESSMENT:

Coursework: 50%

Final Exam 50%

LEVEL: 1

SEMESTER: 2

COURSE CODE: NURS 1203

COURSE TITLE: PRIMARY HEALTH CARE & HEALTH PROMOTION

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 1201; NURS 2201 OR EQUIVALENT. (MAY BE TAKEN CONCURRENTLY); NURS 1100; NURS 2100 OR EQUIVALENT (MAY BE TAKEN CONCURRENTLY); NURS 1202

COURSE DESCRIPTION: This course introduces nurses to the concept and operationalisation of Health Promotion as a new approach to addressing the determinants of health in realising the goals of Primary Health Care. The module is aimed at enhancing participant's understanding of PHC as well as analysis and theoretical application of the foundational health behaviour change models and theories that have influenced the development of health promotion concepts, models and theorists. Students should gain an understanding of the role of nurses in PHC and the operationalisation of the health promotion strategies in addressing identified health issues impacting on individuals, families and communities.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 2

COURSE CODE: NURS 2100

COURSE TITLE: INTEGRATED BASIC HEALTH SCIENCES FOR NURSES II

NUMBER OF CREDITS: 5

PREREQUISITE: NURS 1100

COURSE DESCRIPTION: This course is the second of two courses in which the structural, biochemical and functional properties of the endocrine, cardiovascular, respiratory, renal, reproductive, digestive and musculoskeletal systems of the human body are studied, developing on prior knowledge of anatomy and physiology.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 1

SEMESTER: 2

COURSE CODE: NURS 2201

COURSE TITLE: PATHOPHYSIOLOGY/IMMUNOLOGY & GENETICS II

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 1201

COURSE DESCRIPTION: The course follows part one online and builds on pathophysiological concepts, principles and processes introduced in NURS 1201. It utilizes a scientific and systematic approach in the analysis of disease processes affecting different body systems. This course is intense and requires the student to commit to the outlined course of study as found online.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 1, 2 & 3

COURSE CODE: NURS 2300 & 2301

COURSE TITLE: NURSING RESEARCH PROJECT I & II

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 2500 & NURS 1500

COURSE DESCRIPTION: These courses will provide opportunities, intended to assist the student to appreciate research as a nursing function in the practice of professional nursing. Research design, data collection techniques and the critique of nursing research literature will be emphasised as applicable to the beginning professional practitioner of nursing. The student will identify a clinical nursing problem, formulate a research proposal, and systematically carry out the proposal through the stages of data collection and analysis. Expansion of theoretical basis of research methodology with emphasis on analysing, criticising and interpreting nursing research. Development and implementation of a research proposal focusing on a nursing problem.

ASSESSMENT:

Coursework: 100%

LEVEL: 2

SEMESTER: 1

COURSE CODE: NURS 2510

COURSE TITLE: CLASSROOM TEACHING, ASSESSMENT & EVALUATION

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The course will introduce students to classroom concepts and skills. The content will include assessment literacy, designs and develop to be integrated into the learning process. Effective testing and evaluation will be also linked to the learning outcomes.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 1

COURSE CODE: NURS 2511

COURSE TITLE: ETHICAL, LEGAL & MORAL ASPECTS OF NURSING & HEALTH CARE

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course is intended to expose the students to the various ethical-legal conceptualisations of nursing ethics, providing an opportunity to participate in the contextual dialogue/analysis in order to arrive at appropriate decisions in their professional practice. The ethical component of this course provides for an in-depth understanding and appreciation of the contextual nature of nursing. Students will explore concepts relating to the socialisation of the nurse, the moral significance of nursing, the relevance of moral theory to nursing and the impact of ethics on health policy. The course also provides a framework for ethical analysis and decision-making. The legal component will provide an understanding of law as it relates to nursing practice – its regulation, legal liability of the nurse and the rights of the client.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 1

COURSE CODE: NURS 2512

COURSE TITLE: EDUCATIONAL PSYCHOLOGY & COUNSELLING

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The course will focus on the psychological principles of education and human development across the lifespan. Understanding the social, cognitive, moral and emotional theories that define and shape the experience of the development and how these inform teaching and counselling practices is an essential component of effective teaching and counselling. Throughout this course, the emphasis will be on the application and relevance of the theoretical principles to a classroom and counselling settings. To facilitate this, the case-study approach will be utilised, as Problem Based Learning (PBL) will be the main instructional strategy that will give students an opportunity to analyse and think about situations that they are likely to encounter in their professional roles.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 1

COURSE CODE: NURS 2513

COURSE TITLE: THEORIES IN EDUCATION

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 1200; NURS 1202; NURS 1203

COURSE DESCRIPTION: This course provides students with a broad understanding of how people learn. It gives an insight into current behavioural and cognitive theories and explores their implications for learning and instruction in a variety of educational settings. The distinctions between the ways in which children and adults learn are explored. Theories/concepts covered include cognitive theories, motivational theories, adult learning theories, multiple intelligences, engagement theory and learning styles. Heavy emphasis will be placed on class discussion of selected readings and related issues.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 1

COURSE CODE: NURS 3100

COURSE TITLE: NURSING PHARMACOTHERAPEUTICS

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 1100, NURS 1201, NURS 2100, NURS 2201

COURSE DESCRIPTION: The course provides knowledge of the pharmacological management of selected health care problems. The use of alternative treatment regimen will be explored and the roles and responsibilities of the nurse in the treatment of individuals and groups will be emphasised. The focus will also be on the movement and action of drugs through the body.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 2

COURSE CODE: NURS 3200

COURSE TITLE: NURSING SCIENCES

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The course introduces students to the study of philosophy, knowledge and theory and socio-cultural factors that have influenced the development of nursing as a profession. The many changes in society that have impacted on the earlier conceptualisations of nursing will be explored and specific application will be made to nursing in Trinidad and Tobago and the Caribbean region. The course addresses the eclectic knowledge base of nursing and the types of theory that can enhance its development with particular emphasis on Evidenced Based Nursing.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 2

COURSE CODE: NURS 2501

COURSE TITLE: NURSING LEADERSHIP & MANAGEMENT

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 1500

COURSE DESCRIPTION: The course explores organisational, leadership and motivational theories as they apply to nursing/health care administration and prepares the learner to apply principles of leadership to the management and coordination of care for groups of patients, to better understand and manage the health care environment and its resources, and to supervise the care delivered by those with less education and experience.

Upon completion of the course the learner will be able to apply principles of leadership and management in nursing and in the health care delivery system.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 2

COURSE CODE: NURS 3310

COURSE TITLE: HEALTH POLICY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course introduces the student to the components and functions of health care systems. The main focus will be on the Trinidad and Tobago health care system, but approaches to health care in other countries will be discussed. Health care systems will be critically examined. Attention will be given to the roles of the health care systems. Basic concepts of economics with elements of budgeting and cost accounting will be explored to provide students with an awareness of cost-effectiveness in the provision of health care and the containment of resources within a health care delivery system.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 2

COURSE CODE: NURS 3510

COURSE TITLE: CURRICULUM METHODS & STRATEGIES

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course is intended to introduce the student to traditional and contemporary considerations for effective curriculum planning and design as applied to endeavours in community settings. This exploratory and research opportunity is made available to students to enhance their knowledge and abilities in working with diverse populations across the life span in a variety of circumstances toward specified health related issues or initiatives. This course includes learning theory, human development and learning styles as considerations for design and planning of educational interventions in community settings. In keeping with community-based service roles, this course supports linkages with established institutions or agencies in community settings. The diverse roles filled by community health educators and accompanying impacts on curriculum planning are explored. Concepts of curriculum development will allow students to become aware of the psychosocial issues involved in the curriculum process. Given the existing thrust in lifelong learning, the students will be able to match curriculum methods and strategies to the needs of various audiences of students.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 2

COURSE CODE: NURS 3511

COURSE TITLE: NURSING & HEALTH EDUCATION

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 1200, NURS 1202; NURS 1203

COURSE DESCRIPTION: This course is designed to prepare the participant to apply the principles and practices of Health Education and Health Promotion to maintain the well-being of the Toddler, School Age Child, Adolescent, Adults and Elders. It also prepares the participant to work with teaching staff, parents and with the community. It incorporates Child Health Screening and Surveillance, Health Education and Health Promotion, Immunisation, Adolescent Health, Environmental Health, Children with special needs, Accident Prevention and Safety and Family Life Education.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 2

SEMESTER: 3

COURSE CODE: NURS 2400

COURSE TITLE: NURSING SEMINAR

NUMBER OF CREDITS: 3

PREREQUISITES: CONSENT OF INSTRUCTOR

COURSE DESCRIPTION: The course of study examines the strategies used in management of a variety of health problems identified through examination and treatment of individuals and groups. Primary health care and health promotion strategies including education and counselling will be implemented and evaluated. The course will use a case study approach of problems experienced by individual and aggregates at various stages of the life cycle. Emphasis will be placed on PBL where critical thinking problem solving skills will be enhanced.

ASSESSMENT:

Coursework: 100

LEVEL: 3

SEMESTER: 3

COURSE CODE: NURS 3500

COURSE TITLE: HIGH RISK POPULATIONS

NUMBER OF CREDITS: 3

PREREQUISITES: SUCCESSFUL COMPLETION OF ALL UNIVERSITY REQUIRED COURSES AND CORE CURRICULUM.

STUDENTS ARE REQUIRED TO HAVE MAINTAINED A MINIMUM LEVEL OF 50% IN THE COMPONENTS OF TRAINING ASSOCIATED WITH NURSING STUDIES AND NURSING PRACTICUM.

COURSE DESCRIPTION: This course will review common high-risk health illnesses of the adult and provide a review of systems. Learning experiences that apply theoretical and clinical concepts of the complex needs for the high-risk adult with multi-system alterations in health will be provided. Leadership, management and caregiver roles of the professional nurse with clients and their families in selected areas of nursing practice will be emphasised.

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL: 3

SEMESTER: 3

COURSE CODE: NURS 3300

COURSE TITLE: SCHOOL NURSE PRACTICUM

NUMBER OF CREDITS: 6

PREREQUISITES: Consent of Instructor; Successful completion of all University required courses and core curriculum. Students are required to have maintained a minimum level of 50% in the components of training associated with Nursing Studies and Nursing Practicum.

COURSE DESCRIPTION: The course is designed to prepare participants to lead the process and give direction to the co-ordinated school health Programme. Participants will develop new and advanced skills in identifying the strengths and weaknesses of the School's policies and programmes for promoting health and safety; and developing interventions for improving students' health and safety.

ASSESSMENT:

Coursework: 100%

LEVEL: 3

SEMESTER: 3

COURSE CODE: NURS 3301

COURSE TITLE: NURSING EDUCATOR PRACTICUM

NUMBER OF CREDITS: 6

PREREQUISITES: Consent of Instructor; successful completion of all University required courses and core curriculum. Students are required to have maintained a minimum level of 50% in the components of training associated with Nursing Studies and Nursing Practicum.

COURSE DESCRIPTION: The course is designed to allow participants to increase their confidence, develop new and advanced skills and competence in their area of specialisation through the application of theoretical and research based knowledge to practice.

ASSESSMENT:

Coursework: 100%

LEVEL: 3

SEMESTER: 3

COURSE CODE: NURS 3302

COURSE TITLE: NURSE ADMINISTRATOR PRACTICUM

NUMBER OF CREDITS: 6

PREREQUISITES: *Successful completion of all University required courses and core curriculum. Students are required to have maintained a minimum level of 50% in the components of training associated with Nursing Studies and Nursing Practicum.*

COURSE DESCRIPTION: This practicum experience is designed for students to integrate theory in a reality context of the administrator's role. Opportunities will be provided to participate in all phases of the executive role in different administrative settings. Case studies will be utilised where possible, and relevant searches will be used to study current practices in routine administration, use of research and technology, and other emerging trends. The role of key stakeholders including Government, Industry and Industrial Unions in health care systems will be investigated.

ASSESSMENT:

Coursework: 100%

LEVEL: 1

SEMESTER: 3

COURSE CODE: NURS 2302 (For Oncology Nursing students only)

COURSE TITLE: INTRODUCTION TO NURSING RESEARCH

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 1500, NURS 2502

COURSE DESCRIPTION: This course will provide the student with a detailed description of the research process and its utility to applied nursing. Specific focus would be on the ability to critiquing articles while providing practice in reading research articles, understanding research reports, and applying the components of the research process to the formulation of a research proposal, integrating scientific knowledge with practice to make informed judgements and valid clinical decisions that are evidenced based.

ASSESSMENT:

Coursework: 100%

LEVEL 2

SEMESTER: 1

COURSE CODE: NURS 2514

NUMBER OF CREDITS: 3

PREREQUISITES: NURS 1004; NURS 1005

COURSE DESCRIPTION: The development of therapeutic communication skills that address the specific needs of patients and families with complex, cancer related issues is the focus of this course. Skills relevant to the role of the Oncology Nurse in various health care settings are developed.

ASSESSMENT:

Coursework: 100%

LEVEL 2

SEMESTER: 1

COURSE CODE: NURS 2515

COURSE TITLE: CRITICAL APPRAISAL AND EVIDENCE-BASED PRACTICE

NUMBER OF CREDITS: 4

PREREQUISITES: NURS 2302, NURS 2502

COURSE DESCRIPTION: This course provides a review of research methods, and an introduction to in depth critical appraisal (or assessment) of research evidence from the health sciences literature. The basic principles of research for both quantitative and qualitative research designs will be reviewed. Student will refine important research skills such as how to write an answerable clinical research question, how to efficiently search for evidence (i.e. literature to answer their questions) and how to critically appraise the strengths and weaknesses of a particular piece of evidence (research article).

ASSESSMENT:

Coursework: 40%

Final Exam: 60%

LEVEL 2

SEMESTER: 1

COURSE CODE: NURS 2600

COURSE TITLE: CONCEPTS AND THEORIES IN ONCOLOGY NURSING

NUMBER OF CREDITS: 3

PREREQUISITES: NURS 1100; NURS 2100; NURS 1201; NURS 2201

COURSE DESCRIPTION: In this course students will apply and integrate knowledge and skills from the biological, physical, psychological and social sciences with Nursing Science and concepts of caring. Pre-developed health care problems will help students learn to more effectively assist individuals, families and communities with health promotion and maintenance, cancer prevention and recovery from cancer, using Interventions that are caring in nature and evidence-based where possible. The course objectives are set up within conceptual categories and important explicitly-stated education behaviours are listed under each concept/theme.

ASSESSMENT:

Coursework: 100%

LEVEL 2

SEMESTER: 2

COURSE CODE: NURS 2601

COURSE TITLE: CONCEPTS & THEORIES IN ONCOLOGY NURSING II

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 2600

COURSE DESCRIPTION: This course is a continuation of Concepts and Theories in Oncology Nursing I. In this theory course students continue to apply and integrate at an increasingly sophisticated level, knowledge and skills from biological, physical, psychological and social sciences with nursing science and concepts of caring.

ASSESSMENT:

Coursework: 100%

SEMESTER: 2

COURSE CODE: NURS 2610

COURSE TITLE: INTRODUCTION TO PALLIATIVE CARE IN NURSING

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 1100; NURS 2100; NURS 1201; NURS 2201; NURS 1202; NURS 2514; NURS 3100

COURSE DESCRIPTION: This course is designed for health care professionals and those working in fields related to cancer and/or palliative care. Individuals who care for patients with life-threatening illnesses can face particularly pressing and difficult moral choices. This course provides them with an opportunity to gain a deeper and more systematic understanding of these issues, and to explore the moral problems they may face in their work. The course aims to increase the students understanding of the philosophical basis of good practice, and to enhance their ability to think systematically about the ethically challenging decisions that they may face in the course of their work. Lectures will cover the pharmacology of analgesics, pain management, pathophysiology of nausea and vomiting, and other issues of management of dying patients. The roles of spirituality, ethics, and social work in palliative care are explored. Care of the geriatric patient with an end of life condition is reviewed. Several lectures are devoted to psychological and psychiatric issues for both patients and families.

ASSESSMENT:

Coursework: 100%

SEMESTER: 2

COURSE CODE: NURS 2611

COURSE TITLE: ONCOLOGY HEALTH ASSESSMENT

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 1202; NURS 1203

COURSE DESCRIPTION: This is a clinically oriented course, focusing on the acquisition of knowledge and skills in patient assessment relevant to the role of the nurse in an oncology setting. It will provide an opportunity for students to gain knowledge and skills in focused, problem-oriented assessment related to common concerns in the oncology population. Focused patient assessment involves the assessment of a specific patient need or concern (e.g. ventilation, cognition, mobility) unique to a specific patient in a defined setting/situation (e.g. hospital, home, clinic, telephone)

ASSESSMENT:

Coursework: 50%

Final Exam: 50%

SEMESTER: 3

COURSE CODE: NURS 3400

COURSE TITLE: GUIDED NURSING PRACTICE (CLINICAL COURSE)

NUMBER OF CREDITS: 3

PREREQUISITE(S): NURS 1100, NURS 2100, NURS 1201, NURS 2201, NURS 2611; NURS 2514

COURSE DESCRIPTION: This clinical course promotes the integration of theory and concepts of cancer nursing with nursing practice in a variety of cancer care settings. Clinical practice provides the opportunity for students to pursue personal learning objectives, examine issues, concepts related various cancer nursing roles and settings and develop increasing skills and autonomy. Previous and/ or concurrent problem-based learning courses promote the integration of critical thinking and clinical reasoning with practice.

ASSESSMENT:

Coursework: 100%

SEMESTER: 3

COURSE CODE: NURS 3512

COURSE TITLE: CANCER CARE FOR CHILDREN AND YOUNG PEOPLE (ELECTIVE)

NUMBER OF CREDITS: 3

PREREQUISITES: NURS 1100, NURS 2100, NURS 1201, NURS 2201, NURS 2611, NURS 2515

COURSE DESCRIPTION: The course will cover the use of epidemiologic methods to study prostate cancer in populations. Students will examine primary health care and health promotions strategies used in the management through examination and treatment of individuals with prostate cancer. The course will use a case study approach emphasizing leadership, management and caregiver roles of the professional nurse with clients and their families

ASSESSMENT:

Coursework: 100%

LEVEL 2

SEMESTER: 3

COURSE CODE: NURS 3515

COURSE TITLE: CANCER OF THE PROSTATE (ELECTIVE)

NUMBER OF CREDITS: 3

PREREQUISITES: NURS 1100, NURS 2100, NURS 1201, NURS 2201, NURS 2611, NURS 2515

COURSE DESCRIPTION: This course will cover the use of epidemiological method to study prostate cancer in populations. Students will examine primary health care and health promotion strategies using the management through examination and treatment of individuals with prostate cancer. The course will use a case study approach, emphasising leadership, management and care giver roles of the professional nurse with clients and their families.

ASSESSMENT:

Coursework: 100%

DIPLOMA IN HEALTH VISITING

SEMESTER: 1

COURSE CODE: NURS 1000

COURSE TITLE: PHYSIOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This is a continuation of, and builds on Human Anatomy and Physiology covered in the students' basic curriculum. The course examines the function of the body's systems. Laboratory exercises will allow the students to focus on the examination of selected parts of these systems through histological and skeletal preparations. Emphasis is on student-centered learning, and strategies such as brainstorming, lecture/discussion, questioning and group work will be used to facilitate learners to actively engage with content and develop critical thinking skills.

ASSESSMENT

Assessment is 100% coursework

SEMESTER: 1

COURSE CODE: NURS 0110

COURSE TITLE: PSYCHOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course is designed as an introductory level or foundational course, which provides an introduction to psychology. Psychology is a discipline concerned with human thought, emotion, and behaviour. The science and practice of psychology are based on knowledge developed from both human and animal research. The course will therefore introduce many key topics, and specifically those in the sub-fields of developmental, abnormal, and social psychology such as history of psychology, human development and growth, biological foundations of psychology, perception, learning, personality, social cognition, health, stress and coping, human development, cognition and language and social influence, psychological/personality disorders, in addition to other interesting topics. The course also focuses on intelligence, memory, emotions and motivation. After a brief introduction to the history of the discipline and the research methods that provide the foundation for psychological investigation and knowledge building, the focus will be on the sub-areas of developmental, personality, and social psychology. This course will be delivered using a variety of teaching/learning experiences including lectures/discussions, group work, and individual assignments.

ASSESSMENT

Assessment is 100% coursework

SEMESTER: 1

COURSE CODE: NURS 0120

COURSE TITLE: SOCIOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course provides an introduction to the problems, issues, themes and main ideas of sociology. It is intended to provide basic social facts about the Caribbean and other similar developing societies, and to enable students to adopt a scientific approach to understanding and interpreting social phenomena. Sociology for the Caribbean lays the foundation upon which advanced academic work in sociology and the other social sciences can be built. Furthermore, the course enables students to tackle contemporary policy problems in a theoretically and empirically informed manner. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs, e.g., through Problem Based Learning (PBL) activities and active participation in both classroom and clinical areas.

ASSESSMENT

Assessment is 100% coursework

SEMESTER: 1

COURSE CODE: NURS 0130

COURSE TITLE: SOCIAL HISTORY AND SOCIAL ADMINISTRATION

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course introduces the students to social policy as it addresses the development of social history and the influence of non-governmental organizations in Trinidad and Tobago. The role of central and local government in this respect will also be examined. The course will be assessed by a variety of formative assessments.

ASSESSMENT

Assessment is 100% coursework

SEMESTER: 1

COURSE CODE: NURS 0140

COURSE TITLE: HEALTH VISITING STUDIES

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course introduces the students to the principles of health visiting through the application of the nursing process to delivery of care from a primary health care perspective. Various models of care will be examined to determine approaches which may be applied to situations in health visiting. Students will be required to conduct neighbourhood assessments and develop appropriate responses to address the identified needs of individuals, families and communities.

ASSESSMENT

Assessment is 100% coursework

SEMESTER: 2

COURSE CODE: NURS 0150

COURSE TITLE: PRINCIPLES AND PRACTICE OF TEACHING

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course introduces the student to the principles and practice of teaching within community based settings. Students will examine the concepts of health and wellness, the determinants of health behavior, national health status, the history of health education and health promotion. The student will be provided with opportunities to apply principles of teaching as an important foundation for population-based health care.

ASSESSMENT

Assessment is 100% coursework

SEMESTER: 1

COURSE CODE: NURS 0160

COURSE TITLE: PRINCIPLES AND PRACTICE OF MANAGEMENT

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The course provides the student with opportunities to explore organizational, leadership and management motivational theories and their application to midwifery health care administration. It prepares the learner to apply principles of leadership to the management and coordination of care for groups of patients, to better understand and manage the health care environment and its resources, and to supervise the care delivered by members of staff under their supervision. Students will utilize a number of teaching/learning strategies to engage the materials provided in this course in reflecting on health care organizational systems and structures as well as principles of effective leadership/management that is rooted in theoretical perspectives. Upon completion of the course the learner will be able to apply principles of leadership and management in midwifery and in the health care delivery system.

ASSESSMENT

Assessment is 100% coursework

SEMESTER: 2

COURSE CODE: NURS 0170

COURSE TITLE: RESEARCH METHODS

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This introductory research methods course is intended for students as their first introduction to basic research methodology, proposal writing, data analysis and report writing. The goal is to produce a "user-friendly", highly accessible, and straightforward introduction to research methods couched within the quantitative and qualitative traditions of research. It seeks to promote an enthusiastic and knowledgeable interest in research by helping students to become familiar with the language, tools and purposes of research. The course examines qualitative and quantitative approaches to the research process and also guides students in examining strategies for research, its utilization and dissemination in their study discipline or their area of special interest. It will be assessed using formative and summative assessments.

ASSESSMENT

Assessment is 100% coursework

SEMESTER: 1

COURSE CODE: NURS 0180

COURSE TITLE: ORGANIZATION OF HEALTH SERVICES IN TRINIDAD AND TOBAGO

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: describes the organization, role and function of the health and social services in Trinidad and Tobago. The influence of local, regional and international organizations would also be highlighted. The laws pertaining to the provision of health and social services in Trinidad and Tobago will be addressed. The course will be evaluated through a number of formative assessments.

ASSESSMENT

Assessment is 100% coursework

SEMESTER: 2

COURSE CODE: NURS 0190

COURSE TITLE: ECOLOGY & ENVIRONMENTAL HEALTH

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: This course examines health issues, scientific understanding of causes, and possible future approaches to control of the major environmental health problems in industrialized and developing countries. Topics include how the body reacts to environmental pollutants; physical, chemical, and biological agents of environmental contamination; vectors for dissemination (air, water, soil); solid and hazardous waste; susceptible populations; biomarkers and risk analysis; the scientific basis for policy decisions; and emerging global environmental health problems.

ASSESSMENT

Assessment is 100% coursework

SEMESTER: YEAR LONG

COURSE CODE: NURS 0200

COURSE TITLE: PROFESSIONAL ASPECTS OF HEALTH VISITING

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: This course introduces the students to the concepts, philosophy and principles upon which health visiting in Trinidad and Tobago are based. The origin and development of health visiting at national, regional and international levels will be addressed. Issues for which ethical decisions are required will be examined.

ASSESSMENT

Assessment is 100% coursework

SEMESTER: YEAR LONG

COURSE CODE: NURS 0210

COURSE TITLE: MAJOR DISEASES AND CONDITIONS AFFECTING HEALTH

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: This course introduces the students to the epidemiological trends in disease surveillance. It will examine the common public health challenges affecting individuals, families and communities along the continuum from a primary care perspective which emphasizes health promotion and maintenance. Students will also examine the role of major health conditions on the country's national development.

ASSESSMENT

Assessment is 100% coursework

SEMESTER: 3

COURSE CODE: NURS 0220

COURSE TITLE: SCOPE OF HEALTH VISITING AREA OF PRACTICE

NUMBER OF CREDITS: 6

COURSE DESCRIPTION: This course is concerned with the application of skills taught in the programme to the professional activities of the health visitor. The course offers opportunities for the participant to integrate concepts and principles which are taught in other areas of the programme to clinical situations. The four family groupings will be used as the basis for identifying family-related problems that may be actual or potential in nature. They will also be provided with opportunities for developing their competence in the conduct of physical assessments, make home visits as well as manage a health facility.

ASSESSMENT

Assessment is 100% coursework

BSC MIDWIFERY

SEMESTER: 1

COURSE CODE: MIDW 3001

COURSE TITLE: RESEARCH METHODOLOGY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This introductory research methods course is intended for students as their first introduction to basic research methodology, proposal writing, data analysis and report writing. The goal is to produce a "user-friendly", highly accessible, and straightforward introduction to research methods couched within the quantitative and qualitative traditions of research. It seeks to promote an enthusiastic and knowledgeable interest in research by helping students to become familiar with the language, tools and purposes of research. The course examines qualitative and quantitative approaches to the research process and also guides students in examining strategies for research, its utilization and dissemination in their study discipline or their area of special interest. It will be assessed using formative and summative assessments.

ASSESSMENT:

Coursework 40%

Final examination 60%

SEMESTER: 1

COURSE CODE: MIDW 3002

COURSE TITLE: MIDWIFERY CONCEPTS, PRECONCEPTION & PREGNANCY PLANNING

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course is designed to prepare students to develop partnerships with the family and community for healthy childbearing and childrearing practices. It builds on prior knowledge related to biological, behavioural and social sciences as well as introduction to midwifery practice. The course introduces the philosophy of midwifery and the midwifery care process as the main modality of midwifery care and emphasizes the use therapeutic communication in Planned Parenthood counselling. The context for pre-pregnancy planning is examined through analysis of the global and local health status of women, childbearing families, and socio-cultural factors that influence family planning and parenting. Additionally, genetic counselling and testing will be explored. The course is assessed by a variety of course work and a summative assessment as a final examination.

ASSESSMENT:

Coursework 40%

Final examination 60%

SEMESTER: 1

COURSE CODE: MIDW 3003

COURSE TITLE: MIDWIFERY ETHICS AND LAW

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course will expose students to the ethical, legal and moral aspects of midwifery. Midwifery as a profession, encompasses the delivery of care to clients along the chronological continuum who may come from social environments in which social norms influence their health beliefs and behaviours. Students will be provided with opportunities to explore the sociocultural nuances that impact on moral and ethical behaviours as well as examine the ethico-legal responsibilities of the nurse in clinical and other situations. Students will be expected to build on previous knowledge gained previously in their midwifery training related to ethical codes of conduct and legal aspects of midwifery practice. The course is structured in such a way as to allow students to confront their ethical values and belief systems in addressing the contemporary roles of the Midwife in the 21st century. Sessions will be interactive since a variety of teaching/learning strategies will be used including lecture/discussions, role plays, group discussions and presentations, the media as well as personal reflections. A combination of formative and summative assessments will be used as the strategies for evaluating the course.

ASSESSMENT:

Coursework 40%

Final examination 60%

SEMESTER: 1

COURSE CODE: MIDW 3004

COURSE TITLE: ANTENATAL CARE

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course introduces learners to the principles of the care, management and promotion of health of the woman and her family, experiencing normal pregnancy during the prenatal period. Emphasis is placed on the anatomy and physiology of the female reproductive systems, pregnancy and the growth of the foetus. It will facilitate the students' knowledge of the effects of the physiological and psychological changes of pregnancy. In addition, the course will focus on the foetal and maternal health during the antenatal period. The course is assessed by a variety of course work and a summative assessment as a final examination.

ASSESSMENT:

Coursework 40%

Final examination 60%

SEMESTER: 1

COURSE CODE: MIDW 3005

COURSE TITLE: ANTENATAL CARE PRACTICUM

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course provides the experience for the student to integrate theory, attitude and skills in monitoring the normal progress of pregnancy for the childbearing family during the prenatal period. Students will be empowered to utilize their knowledge of these changes for the diagnosing of pregnancy and identifying factors which contribute to or may affect the adaptation to pregnancy. Emphasis will be placed on the midwifery management process when caring for the pregnant family. Practice settings include inpatient hospital settings, health care centres/clinics, as well as supportive community agencies. The course is assessed by a variety of course work and a practical examination.

ASSESSMENT:

Assessment is 100% coursework

SEMESTER: 2

COURSE CODE: MIDW 3006

COURSE TITLE: CARE DURING LABOUR, BIRTH & PUERPERIUM

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course builds on the content of Normal Pregnancy. Students will integrate evidence-based knowledge to guide and critically analyze the management of the childbearing family during labour and delivery. It will also equip the students with the required knowledge in the care and management of women during the first 6-8 weeks post-delivery. The course will highlight health education & promotion and family process planning. In addition, health assessment of the woman and her family within their natural environment will be emphasized. The course is assessed by a variety of course work and a summative assessment as a final examination.

ASSESSMENT:

Coursework 40%

Final examination 60%

SEMESTER: 2

COURSE CODE: MIDW 3007

COURSE TITLE: CARE DURING LABOUR, BIRTH & PUERPERIUM PRACTICUM I

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course provides the clinical experience necessary for the student under the supervision of a midwife to integrate theory into clinical practice. It is specific to monitoring and managing the care of the childbearing family in the normal transition from pregnancy to labour and delivery and postnatal period. It provides opportunities for emersion into clinical settings in order to develop and refine psychomotor skills. The student will be guided in assisting the woman and fetus during labour and delivery and puerperium. Practice settings include simulation labs, inpatient hospital settings, health care centres/clinics, as well as supportive community agencies. The course is assessed by a variety of course work and a practical examination.

ASSESSMENT:

Assessment is 100% coursework

SEMESTER: 2

COURSE CODE: MIDW 3008

COURSE TITLE: CARE OF THE NEWBORN

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course provides experiences for the pupil midwives to integrate theory and skills in providing comprehensive nursing interventions for the normal full-term newborn. Practice settings include inpatient hospital, post-partum, infant welfare clinics/health centers and supportive community agencies. The course will provide a basis for immediate and subsequent care of the newborn. The course is assessed by a variety of course work and a summative assessment as a final examination.

ASSESSMENT:

Coursework 40%

Final examination 60%

SEMESTER: 2

COURSE CODE: MIDW 3009

COURSE TITLE: PHARMACOLOGY APPLIED TO MIDWIFERY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course builds on the students' knowledge of pharmacology with respect to drug origin and administration. It exposes students to the legal and ethical responsibility and accountability inherent in the midwifery functions related to the administration of drugs, as well as the cultural, social and psychological aspects of drug therapy. Emphasis is placed on safety and accuracy in administering prescribed medication dosages specific to midwifery. The teaching and learning environment is student-centred where students are encouraged to take responsibility for their learning needs and active participation in both classroom and clinical areas. Laboratory exercises are included. Assessment is by a variety of course work and a final examination.

ASSESSMENT:

Coursework 40%

Final examination 60%

SEMESTER: 3

COURSE CODE: MIDW 3010

COURSE TITLE: CARE DURING LABOUR, BIRTH & PUERPERIUM PRACTICUM II

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course provides the clinical experience necessary for the student under the supervision of a midwife; to integrate theory into clinical practice. It is specific to monitoring and managing the care of the childbearing family in the normal transition from pregnancy to labour and delivery and postnatal period. It provides opportunities for emersion into clinical settings in order to develop and refine psychomotor skills. The student will be guided in assisting the woman and fetus during labour and delivery and puerperium. Practice settings include simulation labs, inpatient hospital settings, health care centres/clinics, as well as supportive community agencies. The course is assessed by a variety of course work and a practical examination.

ASSESSMENT:

Assessment is 100% coursework

SEMESTER: 1

COURSE CODE: MIDW 4001

COURSE TITLE: COMPLICATIONS OF PREGNANCY, CHILD BIRTH & PUERPERIUM

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course builds on the students' knowledge and competencies acquired in the previous courses. This course is designed to assist the student in the acquisition of the required knowledge that are required to effectively prevent maternal and neonatal deaths and improve the pregnant family quality of life. The course offers the students opportunity to focus on various complications that can affect the family during pregnancy, childbirth and the puerperium. Emphasis will be placed on the psychosocial impact that complications in pregnancy can have on the child-bearing family. (ICM competencies # 2, 3 & 7). The course is assessed by a variety of course work and a summative assessment as a final examination.

ASSESSMENT:

Coursework 40%

Final examination 60%

SEMESTER: 1

COURSE CODE: MIDW 4002

COURSE TITLE: COMPLICATIONS OF PREGNANCY, CHILD BIRTH & PUERPERIUM PRACTICUM

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course provides the clinical experience necessary for the student under the supervision of a midwife; to integrate theory into clinical practice. It is specific to monitoring and managing the care of the childbearing family in the normal transition from pregnancy to labour and delivery and postnatal period. It provides opportunities for emersion into clinical settings in order to develop and refine psychomotor skills. The student will be guided in assisting the woman and fetus during labour and delivery and puerperium. Practice settings include simulation labs, inpatient hospital settings, health care centres/clinics, as well as supportive community agencies. The course is assessed by a variety of course work and a practical examination.

ASSESSMENT:

Assessment is 100% coursework

SEMESTER: 1

COURSE CODE: MIDW 4003

COURSE TITLE: THE HIGH-RISK NEWBORN

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: Maternal and foetal illness states existing prior to, during and after pregnancy can have deleterious effects on normal growth and development. The neonatal period provides opportunity for early detection and management of alterations that place the growing individual at risk. The role of early intervention in mitigating mortality and morbidity associated with neonatal complications has been widely documented. Emphasis has been placed on reducing and managing neonatal and infant mortality rates as a global priority. Comprehensive quality midwifery care must therefore include protocols that are responsive to the needs of the neonate and family experiencing altered health states (ICM competencies # 2, 3 & 7). The course is assessed by a variety of course work and a summative assessment as a final examination.

ASSESSMENT:

Coursework 40%

Final examination 60%

SEMESTER: 1

COURSE CODE: MIDW 4004

COURSE TITLE: THE HIGH-RISK NEWBORN PRACTICUM

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: Maternal and foetal illness states existing prior to, during and after pregnancy can have deleterious effects on normal growth and development. The neonatal period provides opportunity for early detection and management of alterations that place the growing individual at risk. The role of early intervention in mitigating mortality and morbidity associated with neonatal complications has been widely documented. Emphasis has been placed on reducing and managing neonatal and infant mortality rates as a global priority. Comprehensive quality midwifery care must therefore include protocols that are responsive to the needs of the neonate and family experiencing altered health states (ICM competencies # 2, 3 & 7). This practicum provides student midwives with opportunities to respond appropriately to newborn babies with high risks. The course is assessed by a variety of course work and a practical examination.

ASSESSMENT:

Assessment is 100% coursework

SEMESTER: 2

COURSE CODE: MIDW 4005

COURSE TITLE: RESEARCH PROJECT

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The course is designed to assist the students to build on their experience in developing an understanding of basic concepts of research, to use the findings of research in midwifery practice, to apply the knowledge in conducting project(s) and to solve problems related to midwifery, using scientific methods. Research design, data collection techniques, critique of midwifery research literature as well as the implementation of the research protocol will be emphasized as applicable to the beginning professional midwifery research practitioner. The student will build on the clinical midwifery problem that was formulated as a research proposal consistent with the problem identified in the previous semester. As a result, students will be provided with opportunities to apply the theoretical principles of research from the proposal level to implementation of the research project in addressing a midwifery or related problem. The course is assessed by a variety of course work as a research project.

ASSESSMENT:

Assessment is 100% Coursework

SEMESTER: 2

COURSE CODE: MIDW 4006

COURSE TITLE: LEADERSHIP & MANAGEMENT IN MIDWIFERY

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: The course provides the student with opportunities to explore organizational, leadership and management motivational theories and their application to midwifery health care administration. It prepares the learner to apply principles of leadership to the management and coordination of care for groups of patients, to better understand and manage the health care environment and its resources, and to supervise the care delivered by members of staff under their supervision. Students will utilize a number of teaching/learning strategies to engage the materials provided in this course in reflecting on health care organizational systems and structures as well as principles of effective leadership/management that is rooted in theoretical perspectives. Upon completion of the course the learner will be able to apply principles of leadership and management in midwifery and in the health care delivery system. The course is assessed by a variety of course work and a summative assessment as a final examination.

ASSESSMENT:

Coursework 40%

Final examination 60%

SEMESTER: 2

COURSE CODE: MIDW 4007

COURSE TITLE: LEADERSHIP & MANAGEMENT IN MIDWIFERY PRACTICUM

NUMBER OF CREDITS: 4

COURSE DESCRIPTION: This course introduces the learner to the clinical rudiments of managing personnel, resources and patient care on a maternal and child-care unit. It familiarizes the learner with leadership roles and management functions required to guide care delivery in maternal and child health settings. It provides opportunities to integrate management and midwifery processes into planning; implementing and evaluating midwifery care; utilizing contemporary midwifery roles and functions. In addition, the course assists the learner to incorporate evidence-based knowledge to effectively manage diverse midwifery situations including sudden and impending disasters. The course is assessed by a variety of course work and a practical examination.

ASSESSMENT:

Assessment is 100% Coursework

SEMESTER: 2

COURSE CODE: MIDW 4008

COURSE TITLE: FREE/GENERAL ELECTIVE

NUMBER OF CREDITS: 3

COURSE DESCRIPTION: This course is an independent activity that is selected by the student to enhance their level of competence or knowledge to be more effective practitioners as midwives. The course may or may not be assessed dependent on the nature of the elective.

ASSESSMENT:

No assessment

SEMESTER: 3

COURSE CODE: MIDW 4009

COURSE TITLE: CLINICAL MIDWIFERY INTERNSHIP PRACTICUM

NUMBER OF CREDITS: 5

COURSE DESCRIPTION: This course introduces the learner to the clinical rudiments of managing personnel, resources and patient care on a maternal and child-care unit. It familiarizes the learner with leadership roles and management functions required to guide care delivery in maternal and child health settings. It provides opportunities to integrate management and midwifery processes into planning; implementing and evaluating midwifery care; utilizing contemporary midwifery roles and functions. In addition, the course assists the learner to incorporate evidence-based knowledge to effectively manage diverse midwifery situations including sudden and impending disasters. The course is assessed by a variety of course work and a practical examination.

ASSESSMENT:

Assessment is 100% Coursework

PRE-HEALTH PROFESSIONS PROGRAMME (PHPP)

SEMESTER: I

COURSE CODE: MEDC 0101

COURSE TITLE: BIOLOGY FOR PRE-HEALTH SCIENCE I

CREDITS: 5

COURSE DESCRIPTION: This course introduces students to the key concepts in Biology: Unity in Diversity; Structure/ Function relationships at the molecular, cellular, organ and organismal levels; Adaptation and Evolution. Topics include: Cell and Molecular Biology; Bioenergetics, Mendelian and Molecular Genetics; Evolution and Speciation and a brief survey of Microorganisms (Taxonomy, nutrition, and significance).

The course is delivered through lectures, tutorials, labs and group research project. Assessment consists of in-course essay type, MCQs, Lab reports and evaluation of group research projects. Final examination consists of MCQs, structured and essay type questions.

ASSESSMENT:

Coursework: 40% Final Examination 60%

SEMESTER: I

COURSE CODE: MEDC 0201

COURSE TITLE: CHEMISTRY FOR PRE-HEALTH SCIENCE I

CREDITS: 3

COURSE DESCRIPTION: This is the first of two preparatory courses that introduces students to fundamental concepts in chemistry appropriate for entry level into medical sciences. It covers atomic structure and properties, stoichiometry, bonding, energetics, reaction kinetics, equilibria and periodicity. This is an F2F course and as such material will be delivered in class lectures, weekly tutorials and will be assessed using in-course examinations, marked tutorials, laboratory reports and end of semester final examination.

ASSESSMENT:

Coursework: 40% Final Examination 60%

SEMESTER: I

COURSE CODE: MEDC0301

COURSE TITLE: ENGLISH FOR PRE-HEALTH SCIENCE I

CREDITS: 3

COURSE DESCRIPTION: MEDC 0301 seeks to introduce students to important elements of communication (both written and oral) practised in and relevant to health professions. The course is particularly geared towards writing for professional and academic purposes pertinent to entry for a degree programme at the University of the West Indies. Elements of writing include thesis statements, paragraphing, modes of exposition and essay structure. Students will be able efficiently and appropriately employ the fundamentals of grammar, sentence structure, syntax, etymology of medical terms and continuous vocabulary acquisition. Building on their own techniques, students will be able to appraise paragraph coherence, writing style and exposition development. This course will use a range of learning activities including face-face lectures, role play, discussions, online activities and workshops.

ASSESSMENT:

Coursework: 50% Final Examination 50%

SEMESTER: I

COURSE CODE: MEDC 0401

COURSE TITLE: MATHEMATICS FOR PRE-HEALTH SCIENCE I

CREDITS: 3

COURSE DESCRIPTION: The course is organized around four (4) areas of Mathematics essential for the Health Sciences: Basic Algebra, Functions, Matrices and Calculus. It builds on students' understanding of elementary mathematics (as gained at CXC Mathematics - General Proficiency or G.C.E. 'O' Level Mathematics) and provides the necessary mathematical foundation to enable students to handle mathematical concepts which will be encountered in a health-related Sciences programme.

Teaching will take the form of lectures, group problem solving activities tutorials. Assessment will be based on self-diagnostic online quizzes, fortnightly assignments tests, midterm examination and a final examination.

ASSESSMENT:

Coursework: 40%

Final Examination 60%

SEMESTER: I

COURSE CODE: MEDC 0501

COURSE TITLE: PHYSICS FOR PRE-HEALTH SCIENCE I

CREDITS: 5

COURSE DESCRIPTION: This course seeks to establish the interconnectedness of knowledge between life, activity and basic Physics. The general objective is to do this by delivering the general knowledge of the basic principles of Physics and the significance of Physics in the Medical Sciences. It is also hoped that students will be encouraged to widen their studies in this area by infusing the delivery with technology, via seminars and small group discussions. This course will be assessed using a final examination, in-course assessments and laboratory exercises. Face-to-face lectures along with tutorials will aid in the delivery of the content.

ASSESSMENT:

Coursework: 40%

Final Examination 60%

SEMESTER: II

COURSE CODE: MEDC 0102

COURSE TITLE: BIOLOGY FOR PRE-HEALTH SCIENCE II

CREDITS: 5

COURSE DESCRIPTION: This course introduces students to the key concepts in Biology emphasizing Unity in Diversity, Homeostasis and Structure/Function relationships. It covers the 5-kingdom classification of living organisms. The structure, function, biosystems maintenance and homeostasis are all covered with specific reference to the Mammalian body plan and physiology. The course is delivered through lectures, tutorials, labs and a group research project. Assessment consists of in-course essay, MCQs, Lab reports and evaluation of group research project. Final examination consists of MCQs, structured and essay type questions.

ASSESSMENT:

Coursework: 40%

Final Examination 60%

SEMESTER: II

COURSE CODE: MEDC 0202 – PRE-HEALTH CHEMISTRY II

COURSE TITLE: CHEMISTRY FOR PRE-HEALTH SCIENCE II

CREDITS: 3

COURSE DESCRIPTION: This is the second of two preparatory courses that introduces students to fundamental concepts in chemistry appropriate for entry level into medical sciences. It covers pH, buffers, redox reactions, electrochemistry, solubility product phase equilibria kinetic theory of gases colligative properties and transition metals. Course material will be delivered via in-class lectures weekly tutorials and laboratory exercises. It will be assessed using in-course examinations, marked tutorials and laboratory reports and an end of semester final examination.

ASSESSMENT:

Coursework: 40%

Final Examination 60%

SEMESTER: II

COURSE CODE: MEDC 0302

COURSE TITLE: COMMUNICATION SKILLS FOR PRE-HEALTH SCIENCE II

CREDITS: 3

COURSE DESCRIPTION: PHPP 0302 seeks to reinforce communication (oral and written) skills introduced in Semester I while introducing elements of presentation, argumentation and new modes of exposition. Presentations made individually, in pairs and in small groups develop confidence and enhance collaboration techniques. The art of persuasion and argumentation will be enhanced through debate as students become advocates for the underserved. Thus, oral and written proficiency will give students the confidence to express their thoughts and ideas in both written and oral situations. In this stead students continue to develop their academic writing skills to assist in their study, profession, research and research publication.

This course will use a range of learning activities including face-face lectures, role play, discussions, online activities and workshops. Assessments will include three in-course assignments, participation and critical analysis, and a final examination.

ASSESSMENT:

Coursework: 50%

Final Examination 50%

SEMESTER: II

COURSE CODE: MEDC 0402

COURSE TITLE: FUNDAMENTALS OF BIostatISTICS AND EPIDEMIOLOGY FOR PRE-HEALTH SCIENCE II

CREDITS: 3

COURSE DESCRIPTION: This course introduces basic concepts of epidemiological and biostatistical principles and procedures for the surveillance and investigation of health-related issues. Emphasis will be placed on the principles and methods of epidemiologic investigation, appropriate summaries and displays of data, and the use of statistical approaches to describe the health of populations. Students will also review sources of information and connections between diseases and their precipitating factors. Teaching will take the form of lectures, case-based teaching, group problem solving activities and classroom discussions and demonstrating practical work in the computer laboratory.

ASSESSMENT:

Coursework: 40%

Final Examination 60%

SEMESTER: II

COURSE CODE: MEDC 0502

COURSE TITLE: PHYSICS FOR PRE-HEALTH SCIENCE II

CREDITS: 5

COURSE DESCRIPTION: This course aims to continue expanding the knowledge of the correlation between life, activity and basic Physics. This goal will be achieved by the delivery of the general knowledge of the basic principles of Physics and its importance in the Medical Sciences field. It is also hoped that students will be encouraged to widen their studies in this area by infusing the delivery with technology, via lectures and small group discussions. This course will be assessed using a final examination, in-course assessments and laboratory exercises. Face-to-face lectures along with tutorials and class assignments will aid in the delivery of the content.

ASSESSMENT:

Coursework: 40%

Final Examination 60%

SEMESTER: III (SUMMER)

COURSE CODE: MEDC 0103

COURSE TITLE: BIOLOGY FOR PRE-HEALTH SCIENCE III

COURSE DESCRIPTION: This course builds on the concepts previously covered in other biology courses with a focus on the ecosystem, microbiology, and mycology. The course is delivered through lectures, tutorials, labs and group research project. Assessment consists of in-course essay type, MCQs, Lab reports and evaluation of group research projects. Final examination consists of MCQs, structured and essay type questions

ASSESSMENT:

Coursework: 40%

Final Examination 60%

SEMESTER: III - SUMMER SESSION

COURSE CODE: MEDC0203 – CHEMISTRY FOR PRE-HEALTH III

COURSE TITLE: CHEMISTRY FOR PRE-HEALTH SCIENCE III

COURSE DESCRIPTION: This module focuses on the chemistry of proteins, carbohydrates, lipids and other physiologically important compounds. Course material will be delivered via in-class lectures weekly tutorials and laboratory exercises. It will be assessed using in-course examinations, marked tutorials and laboratory reports and an end of semester final examination.

ASSESSMENT:

Coursework: 40%

Final Examination 60%

SEMESTER: III (SUMMER)

COURSE CODE: MEDC0403

COURSE TITLE: STATISTICS FOR PRE-HEALTH III (EPIDEMIOLOGY)

CREDITS: 3

COURSE DESCRIPTION: Epidemiology (Working Definition):

Epidemiology is the study of the distribution and determinants of health-related states or events in specified populations, and the application of this study to the control of health problems.

This course therefore, enables the students to extend the principles and methods of Applied Statistics that were covered in MEDC0402 (Principles and Methods of Biostatistics) to the design of Health-related studies; and subsequent data analysis.

The diagram below is reminder of the nature and scope of that course. Specifically, this course places emphasis on the prediction component of Inferential Data Analysis.

ASSESSMENT:

Coursework: 40% Final Examination 60%

SEMESTER: III (SUMMER)

COURSE CODE: MEDC0503

COURSE TITLE: PHYSICS FOR PRE-HEALTH SCIENCE III

CREDITS: 3

COURSE DESCRIPTION: This course aims to continue expanding the knowledge of the correlation between life, activity and basic Physics. This goal will be achieved by the delivery of the general knowledge of the basic principles of Physics and its importance in the Medical Sciences field. It is also hoped that students will be encouraged to widen their studies in this area by infusing the delivery with technology, via lectures and small group discussions. This course will be assessed using a final examination, in-course assessments and laboratory exercises. Face-to-face lectures along with tutorials and class assignments will aid in the delivery of the content.

ASSESSMENT:

Coursework: 40% Final Examination 60%



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