



THE UNIVERSITY OF THE WEST INDIES
MONA CAMPUS

FACULTY OF SCIENCE AND TECHNOLOGY

REGISTRATION GUIDE

UNDERGRADUATE STUDENTS
2017 - 2018

The Faculty App 'FST Go' is Here

This app is the ultimate quick guide for students in the Faculty of Science and Technology



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FEATURES:

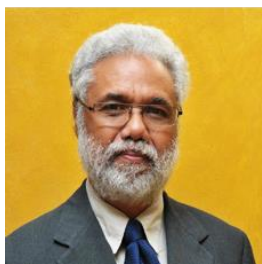
- Latest Faculty news
- Map to locate your classes
- Information for Departments
- Scholarships & Bursaries
- Faculty events

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**From the Dean,
Professor Paul B. Reese
To All New Students, 2017 - 2018**



It is my pleasure to welcome you to the Faculty of Science and Technology. I congratulate you for choosing The University of the West Indies (UWI) as your preferred institution to pursue Higher Education. We assure you that you have made the right decision and that we are here to facilitate the full realization of your potential.

Over the years the University in general, and the Faculty of Science and Technology in particular, have played a pivotal role in nation building throughout the Caribbean and beyond. You are here to continue to build on that tradition of excellence; however, I must hasten to warn you that it will take a tremendous amount of unremitting effort on your part, a well-trained mind, fixity of purpose, and hard work. We have no doubt that you are up to the challenge of fulfilling that expectation.

The Staff at the Dean's Office and Departmental Offices will assist you in making your transition to life at the University as smoothly as possible. Feel free to make your enquiries and to interact with the staff. Our Lecturers are among the best, and many have received prestigious awards for research and teaching. They are ready to provide you with the resources and the tools that can place you among the top achievers in the University.

I encourage you to listen keenly to the presentations during the Faculty's Orientation as well as the General Orientation Programme that will take place August 2017. You should make every effort to understand how the Grade Point Average (GPA) programme works, as this will be used to determine your status at the University.

It is your responsibility to ensure that you are in good academic and financial standing with the University. The records show that students whose financial obligations are not met on a timely basis subsequently suffer from poor performance and eventual withdrawal.

I wish you every success at The UWI, and I hope that your learning experience here will be exciting and rewarding. We are here to help you achieve this. Use every opportunity to your advantage.

**From the Associate Dean,
Dr. Eric Hyslop
To All New Students, 2017 - 2018**



Welcome to the Faculty of Science and Technology (FST). Thank you for accepting our invitation to pursue your higher educational goals with us. We are confident that you have made an excellent choice and that you will thoroughly enjoy the academic and social experience of studying in the FST, UWI. You will be exposed to a range of disciplines and experiences embodied in the words “*Higher Education*”. In order to fully benefit from this exposure you must actively participate in your own education. Education is about your curiosity, probing, analysis and arriving at your own conclusions. Rather than regurgitating information, you must seek to understand the concepts and theories which you will encounter. Never unquestioningly accept the teachings of lecturers or tutors and the “*facts that you see in print*”. We are interested in developing scholars with inquiring minds. Learning is not only cognitive, but also social. There is much you will learn from your classmates.

The Faculty and staff are here to give advice, assistance and clarification on matters concerning your academic progress. I would like to advise you of the following: Please use all sources of information, read notice boards and electronic notes placed on your registration page carefully and ask for assistance and clarification if you are unsure of the information. Failure to seek advice and deal with problems as soon as they arise will lead to retardation of your progress in the Faculty and a waste of time and resources. Never forget, you owe it to your country to make the best of your opportunities here.

It is our firm belief that you have the ability to realize your full potential. We are confident that we will not only graduate scientists, but persons who are well rounded; ready to play their part as a citizen and who will advance the human condition. Welcome again to the Faculty of Science and Technology where you will orchestrate your future.

REGISTRATION GUIDELINES

WHEN DO CLASSES BEGIN?

To find out when classes begin each semester, consult the **Academic Diary**. For Semester 1, academic year 2017 - 2018, teaching begins on Monday, September 04, 2017.

HOW DO I REGISTER?

Before you register for classes, you must be admitted to the University of the West Indies, Mona Campus. Students can only register for their courses using the UWI Mona Student Administration System (SAS). It is advisable that you speak with your Department's Undergraduate Coordinator and seek academic advice.

WHAT ARE PRELIMINARY COURSES?

Preliminary Courses are equivalent to the Caribbean Advanced Proficiency Examinations (CAPE) and 'A' Level programmes. However, the credits that are accumulated from these examinations will not be counted as part of your general degree requirements. These credits can be used to advance to Level I.

WHAT IS A LOWER LEVEL MATRICULATION?

Lower Level Matriculation (Preliminary Offer) is given to an applicant who does NOT have the two units of CAPE Science subjects or the requisite 'A' Level passes. This degree takes four years. This offer is normally made to applicants with CSEC (CXC) passes ***only or one 'A' Level or one unit of CAPE science subject.***

Note: Preliminary Credits do not count towards your degree credits.

WHAT IS UPPER LEVEL MATRICULATION?

This is referred to as Normal Matriculation. The applicant would have satisfied the University and the Faculty's requirements for matriculation. Upper Level Matriculation is offered to students who are qualified to do their degrees over three years.

Note: This offer is given to an applicant who has two units of CAPE/‘A’ Level Science passes.

HOW MANY CREDITS CAN I REGISTER FOR EACH SEMESTER?

Full-time Student Registration: A full-time student can register for a **minimum of 33 credits and a maximum of 39** credits per year. That is, **18 credits per semester** (a combination of 2, 3 and/or 6 credits courses) **AND** one (1) Foundation Course (3 credits) per year = **39 Credits (Max.)**

Part-time Student Registration: A part-time student can register for a **minimum of 18 credits and a maximum of 27** credits per year. That is **12 credits per semester** (a combination of 2, 3 and/or 6 credits courses) **AND** one (1) Foundation Course (3 credits) per year = **27 Credits (Max.)**

Note: FST students MUST complete 3 Foundation Courses; EXCLUDING (FOUN1201/FD12A). It is also highly recommended that students complete their Foundation Courses in Semester 2 of each academic year.

HOW DO I ACCESS MY COURSE MATERIALS?

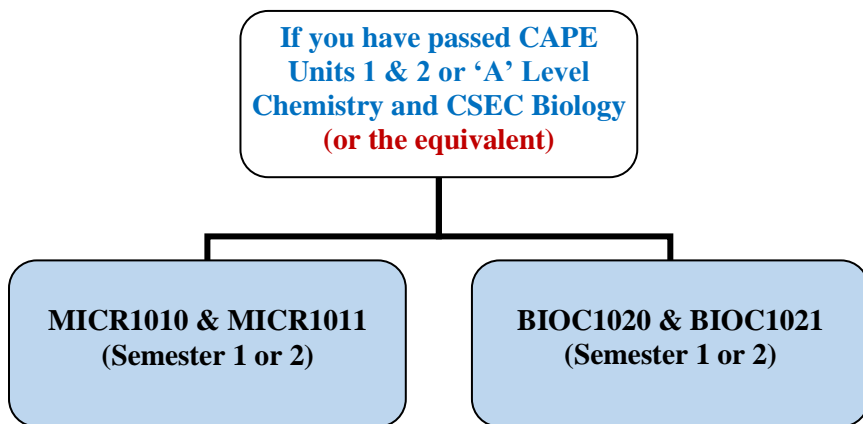
Courses materials are available on Our Virtual Learning Environment (OurVLE). This site may be accessed via the University's homepage (under Quick Links menu). To use OurVLE you must have a UWI ID and MyMona address. Please activate your MyMona email as soon as possible as course information will be sent by email and posted on OurVLE.

COURSE LISTING

SUBJECT	SEMESTER 1 COURSE CODES	SEMESTER 2 COURSE CODES
Biochemistry	BIOC 1020, BIOC 1021 MICR 1010, MICR 1011 (L1)	
Chemistry	CHEM0901 (P) CHEM1901 (L1)	CHEM0902 (P) CHEM1902 (L1)
Computing	COMP1126, COMP1127, COMP1210 & COMP1220 COMP 1161 (L1)	
Geography	GEOG1131 GEOG1231 (L1)	GEOG1132 GEOG1232 (L1)
Geology	GEOL1101 GEOL1102 (L1)	GEOL1103 GEOL1104 (L1)
Life Sciences (Biology)	BIOL0011 (P) BIOL1017 & BIOL1018 (L1)	BIOL0012 (P) BIOL1262 & BIOL1263 (L1)
Mathematics	MATH0100 (P) MATH1141 & MATH1142 (L1)	MATH0110 (P) MATH1151 & MATH1152 (L1)
Physics	PHYS0411 & PHYS0412 (P) PHYS1411 & PHYS1412 (L1)	PHYS0421 & PHYS0422 (P) PHYS1421 & PHYS1422 (L1)
P = Preliminary L1= Level 1		

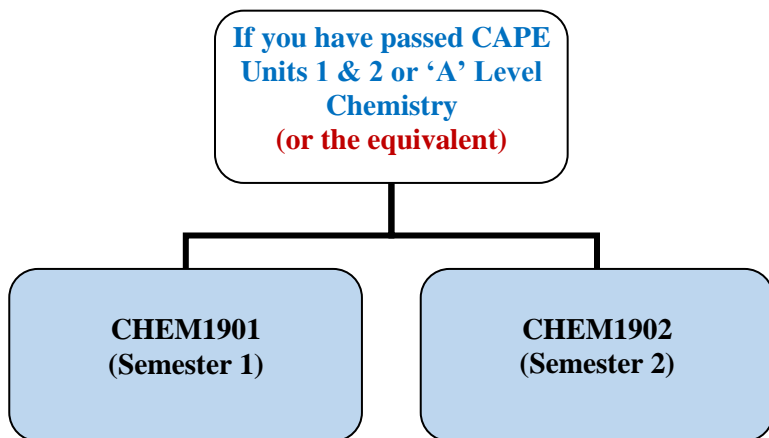
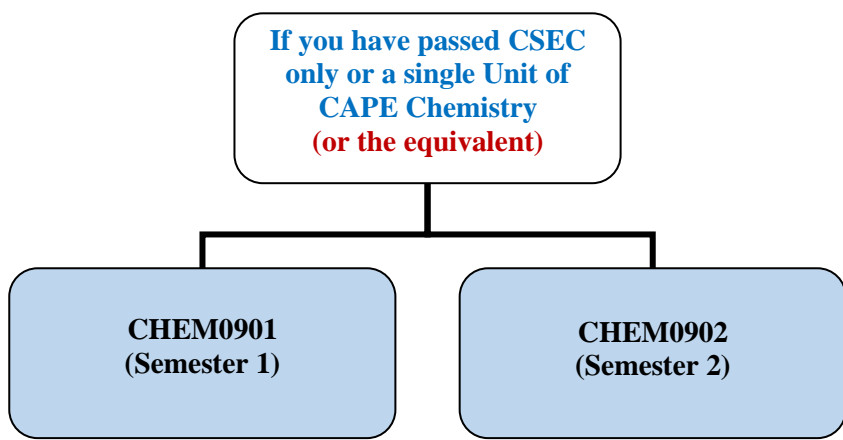
HOW DO I SELECT MY COURSES?

BIOCHEMISTRY



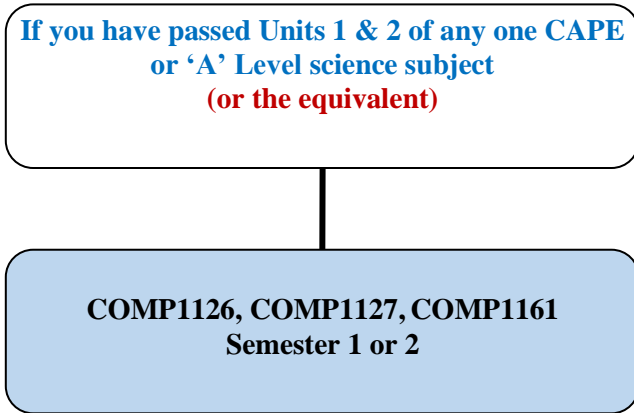
Note: All students pursuing a major in Biochemistry, Biotechnology, Microbiology or Molecular Biology must register for all the above courses as well as Level 1 Chemistry.

CHEMISTRY

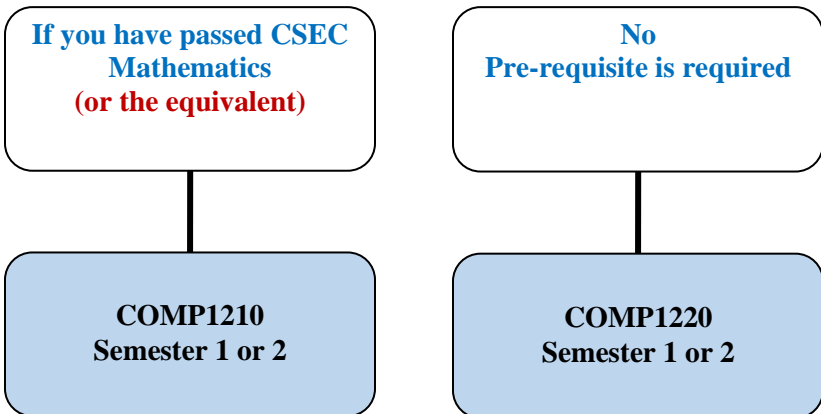


Note: Students that are pursuing a major in Chemistry must register for at least 6 credits of Level 1 Mathematics. The recommended Mathematics courses are MATH1185 and either MATH1141 or STAT1001. However, MATH1142, MATH1151, MATH1152 are also acceptable. However, for a major in Special Chemistry, CAPE Physics (or its equivalent) is also required.

COMPUTING



Note: Students that are pursuing a major in this department should register for COMP1126 and COMP1127 in Semester 1 and COMP1161 in Semester 2.



Additional Notes

When registering please make the following selections:

COMP1126 and COMP1127: a lecture stream (3 hrs), a lab (2 hrs) and two tutorials - a primary and a secondary (2 hrs) (also referred to as TutA and TutB respectively).

- COMP1161: a lecture (2hrs), a lab (2hrs) and one (1hr) tutorial.
- COMP1210: a lecture (3hrs) and one (1hr) tutorial.
- COMP1220: a lecture (3hrs) and one (1hr) tutorial.

You are expected to attend all these sessions during each week.

- COMP1126 is offered during the first six weeks of the semester, the seventh week is exam week.
- COMP1127 is offered during the last six weeks of the semester.

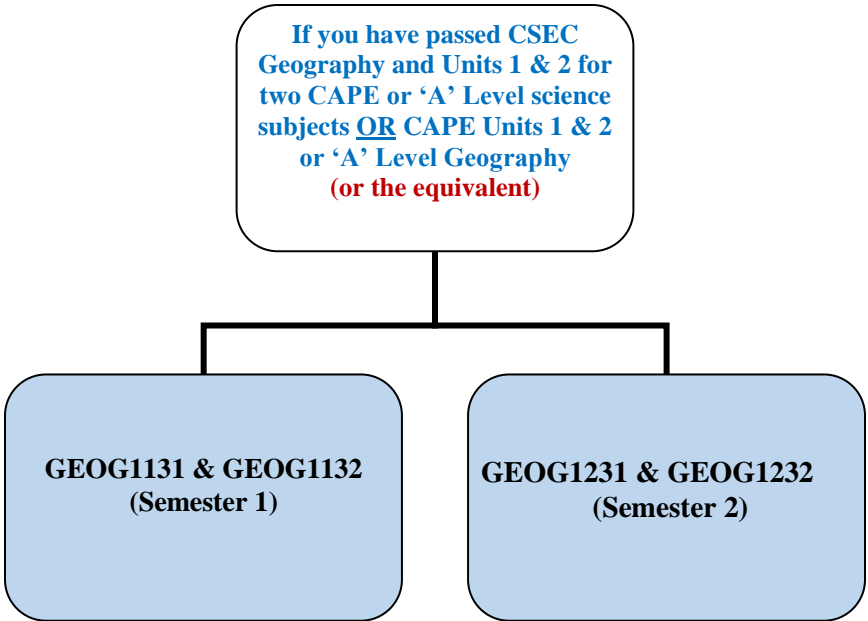
Primary tutorials usually occur between Monday and midday Wednesday. Secondary tutorials usually occur between midday Wednesday and Friday. If you are doing both courses in the same semester you should register for the same lectures, tutorials and lab time for both courses (i.e. COMP1126 and COMP1127).

Example:

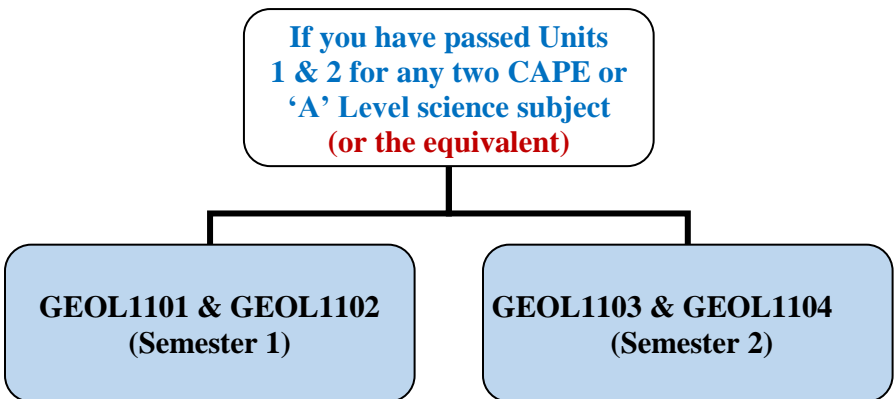
- If you register for COMP1126 Lecture (M11) Monday 12-2pm, you must also register for COMP1127 Lecture (M11) Monday 12-2pm.
- If you register for COMP1126 Lab (B) Tuesday 11-1pm, you must also register for COMP1127 Lab (B) Tuesday 11-1pm.
- If you register for COMP1126 Primary Tutorial (TutA) Monday 3-4pm, you must also register for COMP1127 Primary Tutorial (TutA) Monday 3-4pm.
- If you register for COMP1126 Secondary Tutorial (TutB) Friday 9-10am, you must also register for COMP1127 Secondary Tutorial (TutB) Friday 9-10am.

GEOGRAPHY AND GEOLOGY

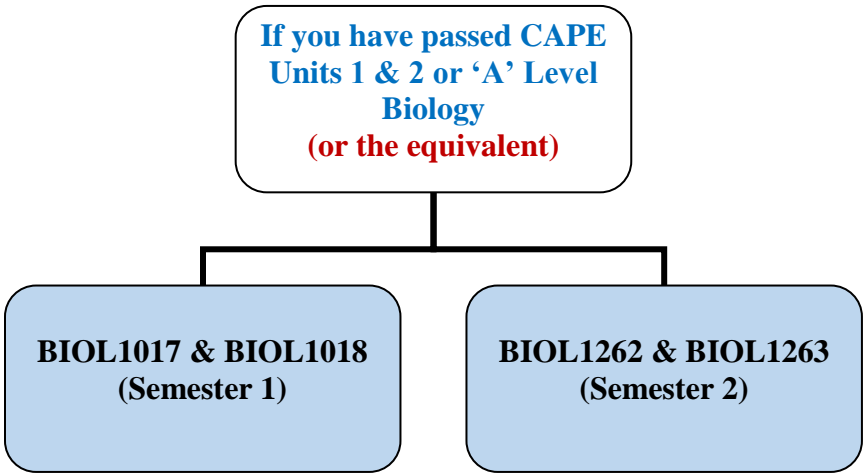
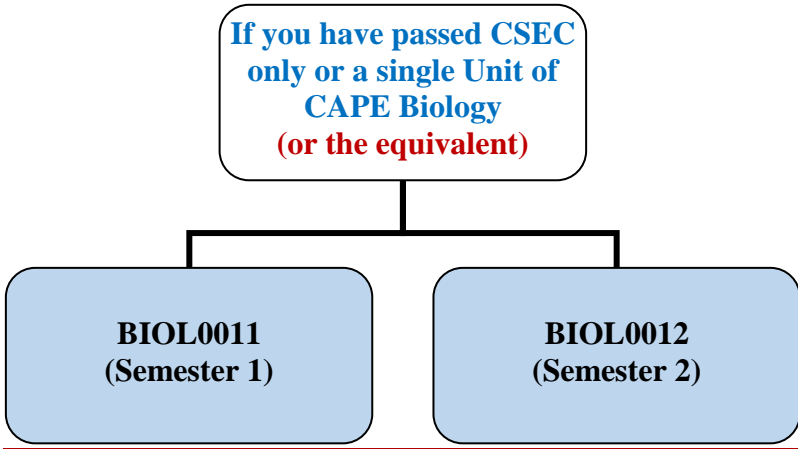
GEOGRAPHY



GEOLOGY



LIFE SCIENCES (BIOLOGY)



Additional Notes

All incoming Preliminary and Level I Biology students are required to register for the following course components:

- One lecture stream (M1x); one laboratory stream (B0x); and one tutorial stream (Txx) for each course (where “x” denotes a numeral).

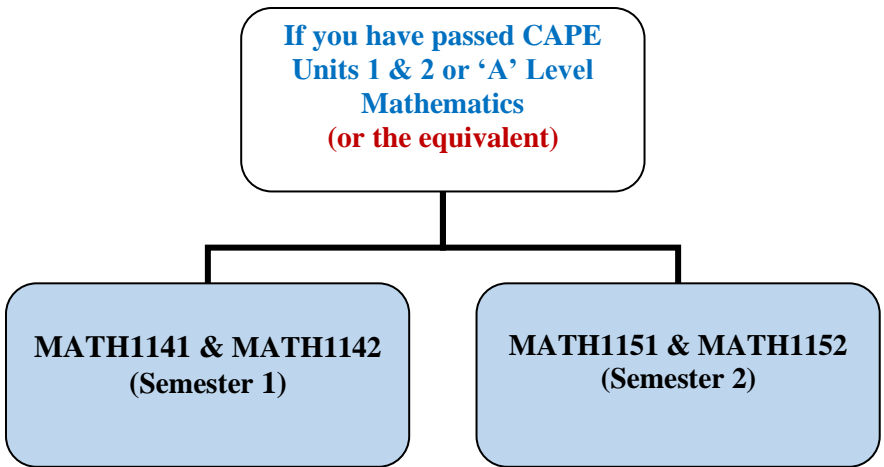
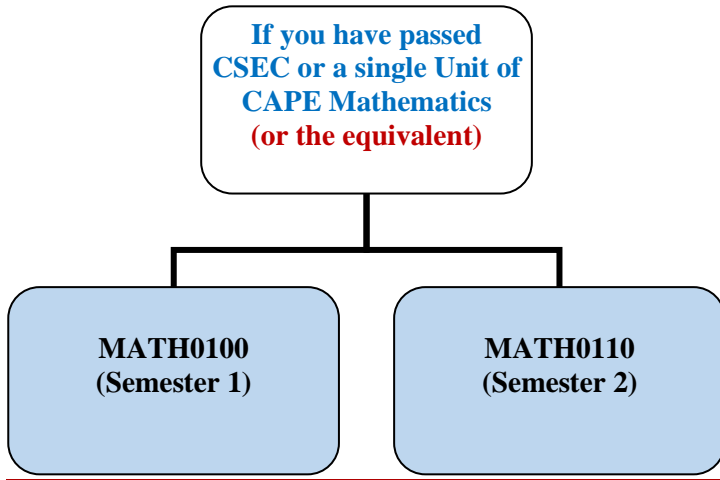
Where there is more than one stream for a course-component, one should select the stream that best fits his/her schedule. However, students are strongly advised to choose the same streams across their Preliminary/Level I BIOL courses for consistency. Doing so also helps to prevent possible timetable clashes as one progresses through the academic year.

- **For example:** a student doing BIOL1017 (Sem I, 1st six weeks) may find the following streams compatible with their timetable:
 - Lecture (M11) – Tue 9-10 am; Thu 8-9 am; & Fri 9-10 am.
 - Lab (B04) – Fri 10 am – 1 pm & 2-5 pm.
 - Tutorial (T13) – Thu 10-11 am.
- The student is, therefore, advised to select the same streams for BIOL1018 (Sem I, 2nd six weeks), BIOL1262 (Sem II, 1st six weeks) and BIOL1263 (Sem II, 2nd six weeks).

Lab Manual

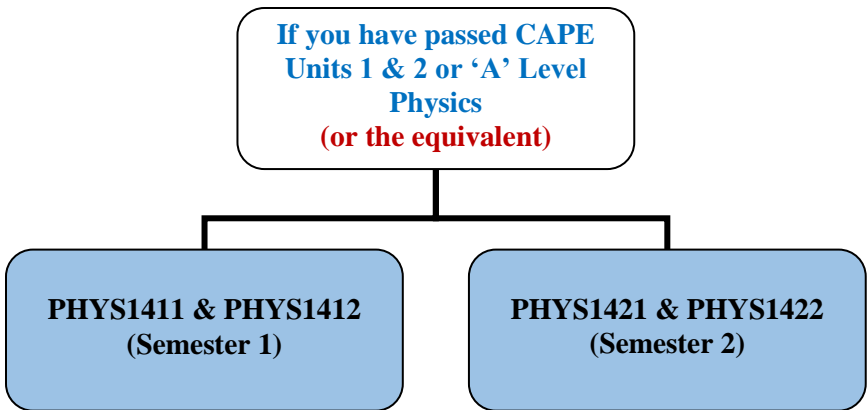
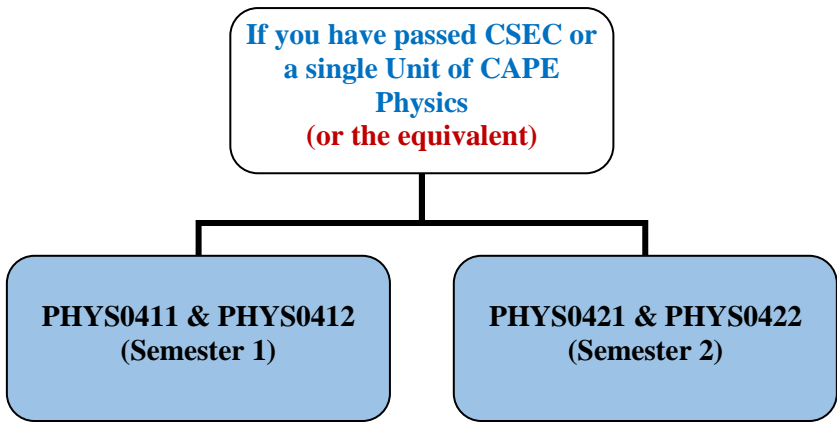
Available on OurVLE.

MATHEMATICS



Note: Students that have passed either CAPE or 'A' Level Mathematics along with CSEC Physics can register for Level 1 Physics.

PHYSICS



Note: Students that have passed either CAPE or 'A' Level Mathematics along with CSEC Physics can register for Level 1 Physics. Also, students that are pursuing a major in Medical Physics or Electronics must also register for ELET1400, ELET1405 and MATH1185.

Additional Notes Schedule and Text

- PHYS0411 & PHYS0412 are 6-week courses. PHYS0411 is held in the first 6 weeks and PHYS0412 in the latter 6 weeks. The text for both courses is **Physics** by **Cutnell and Johnson**.
- PHYS1411 & PHYS1412 are 6-week courses. PHYS1412 is held in the first 6 weeks and PHYS1411 in the latter 6 weeks. The text for both courses is **Fundamentals of Physics (extended edition)** by **Halliday, Resnick & Walker** OR **Physics for Scientists and Engineers** by **Paul A. Tipler & Gene Mosca**.
- There are also PHYS1411 and PHYS1412 Workbooks available online. Please bring the PHYS1412 Workbook, or the first few pages, to the first class.

Lab Manual

Available on OurVLE.

Lab Book

A lab note book is required to write your reports (one per semester). This book is available at the University Bookshop.

Special notes on labs

- Each PHYS04 lab is 3 hours in duration, while PHYS14 labs are 4 hours in duration. You are required to do one lab per week resulting in 6 labs for each course. For each course, students are required to register for one lab session. If, for example, the Monday lab session is chosen for PHYS0411, students are encouraged to register for the Monday lab for PHYS0412 as well. This will mean your timetable remains unchanged when you start PHYS0412 in the seventh week. Ensure that your lab does not clash with your other classes.
- Manuals and lab books need to be purchased **before** labs start. Students are warned **not to** copy from lab books of

past students. Copying will lead to expulsion from the course. **Attendance at lab is compulsory.** Students who arrive late may not be granted access to the lab. If you are late because of a valid reason or missed a lab, speak with your lab supervisor in charge and the demonstrator, and arrange for a makeup session.

Tutorials

One hour per week. Please see the **Work Schedule** for day and time. Students are required to register for one of these sessions for each course. Venues are as posted on SAS.

OurVLE

All the information on this sheet, course tests and final exam papers from previous years, course notes, and lab information may be obtained from the OurVLE site.

Notices

- Notices, including lab schedules, lab partner lists, lab exam exemption lists, course test and lab grades and general information will be posted on respective notice board and on OurVLE.
- The PHYS04 notice board is located on the ground floor of the 2-storey building, outside of the PHYS04 main lab.
- The PHYS14 notice board is located at the Physics undercroft, just outside of the 3-storey building.

COURSE SELECTION GUIDELINES

STEP A

LOGGING ON TO THE STUDENT AUTOMATED SYSTEM (SAS)

1. Go to the SAS Website

- The SAS Website is accessed from the UWI Mona home page at <http://www.mona.uwi.edu/>
- Click on the **SAS link** in the **Online Systems** menu (in the

left panel).

2. Click on **Enter Secure Area**
3. Type your **ID number** in the space provided e.g. **620000001**
4. Enter your **Password**: The default is your **Date of Birth** in the format
YYYY/MM/DD
eg. January 15, 1991: 19910115
5. Click on **Login**
6. The '**MAIN MENU**' will be displayed:
 - Personal Information
 - Student Services

STEP B

ADDING COURSES TO YOUR REGISTRATION RECORD

1. Click on the **Student Services link**
2. Click on **Registration**
3. Click on the **Add/Drop Classes link**
4. Select the appropriate term from the drop menu and click **Submit**.
5. Click on **Class Search** to select courses and their CRN* (**Course Registration Number**) or in the **Add Classes Worksheet** area, enter the CRN for each course **NOT** the course code.

****CRN-a unique code assigned by the system to each stream/section of a course.***

6. Click on **Submit Changes**
7. Review System Output
 - ****Registered****- Course criteria satisfied and the course

selection is complete (Courses added to record).

- ****Registration Add Error****- Course criteria **NOT** satisfied. Courses will **NOT** be added to your record. A message will appear listing all the courses where the course criteria were not satisfied. Before these courses can be added to your record, the student must receive permission from the Faculty by requesting a course override. Student can choose another course or request an Override.

Note: Students are encouraged to select courses for both semesters 1 and 2 at the start of the academic year.

Examples:

- **BIOL1262 & BIOL1263** have lecture, tutorial and laboratory components. Students registering for these courses must therefore register for all three components or streams.

Lecture	BIOL1262 & BIOL1263 (Lectures)
Tutorial	BIOL1262 & BIOL1263 (Tutorials)
Laboratory	BIOL1262 & BIOL1263 (Lab)

- **MATH1141 & MATH1142** have only lecture and tutorial components. Students registering for these courses must register for two components or streams:

Lecture	MATH1141 & MATH1142 (Lectures)
Tutorial	MATH1141 & MATH1142 (Tutorials)

IDENTIFYING LECTURES, TUTORIALS AND LABORATORY

Course Title	This is the name of the courses e.g. Cell Biology
Course Code	This is a special code assigned to each course e.g. Cell Biology, BIOL1017
	Each component of a course will have the same course code.
	Lecture sections: Title ‘Course Code’
	Cell Biology, BIOL1017
	Section: M11, M12 etc.
	Tutorial sections: Tutorial ‘Course Code’
	Tutorial BIOL1017
	Section: T01, T02 etc.
	Laboratory sections: Laboratory ‘Course Code’
	Lab BIOL1017
Section: B01, B02 etc.	

HOW TO SELECT A CLOSED COURSE

1.	Select the Term for which you are completing registration
2.	Click on Add/Drop Classes link
3.	Click on Class Search to find the course and the CRN for the Lecture, Lab and Tutorial sessions and make note of the numbers for the sections that you intend to attend.
4.	Go back to Add/Drop Classes link
5.	Type these CRN into the boxes titled Add Classes to Worksheet
6.	Select Submit Changes
7.	You will get a Registration Add Error and the boxes will be empty

8.	Click Request Override
9.	From the drop-down box Select the course (only lecture component will appear) and give reason (if necessary) for the request
10.	Click Submit and leave the course for approval.
<i>Note: To ensure that your Override Request was correctly done, Click on Registration Status and Financial Clearance. The lecture component only should appear in red</i>	

HOW TO DROP COURSES

This is the removal of course from your registration.

1.	Go to the Registration Menu
2.	Click on the Student Services link
3.	Click on Registration
4.	Click on the Add/Drop Classes link
5.	Select the appropriate term (choose from the drop down menu) and click Submit
6.	Select ++Web drop++ in the action column next to the course to be dropped.
7.	Click on Submit Changes.

REGISTRATION ADD ERRORS

If a Course Criteria is NOT satisfied, a message will appear when you attempt to add the course to your record. Course criteria include the Departmental and Faculty criteria identified below:

CRITERIA	DESCRIPTION
Pre-requisite	UWI course(s) that the student must have already passed.
Test Score	Non-UWI course(s) that the student must have already passed, e.g. CSEC, 'A' Level, CAPE, etc.
Co-requisite	UWI course(s) that the student must be registered for in the same semester.
Faculty Credit Limit	Limit on the maximum number of credits a student can register for in a semester without Faculty approval.
Quotas	Limit on the number of students allowed to register in the stream/section of a course.
Student Restrictions	Stream/Section of the course restricted to a specified group of students, e.g. History Majors, Faculty of Social Sciences students, Final Year students, etc. There could be one of seven (7) possible error messages.
Repeat course already passed	Students cannot register for courses they have already passed in their current programme
Linked Sections	Students are required to register for all applicable 'schedule types' associated with a course. Schedule types include the following:
	<input type="checkbox"/> Lectures
	<input type="checkbox"/> Tutorials
	<input type="checkbox"/> Labs
	<input type="checkbox"/> Seminar

	<input type="checkbox"/> Clinical
	<input type="checkbox"/> Field Work
	<input type="checkbox"/> Internship
	<input type="checkbox"/> Workshop

Departmental Override is required for the following errors:

- ✓ Preq and Test Score-Error
- ✓ Corq {Course Code} (Crn) Req
- ✓ Level Restriction
- ✓ College Restriction
- ✓ Degree Restriction
- ✓ Programme Restriction
- ✓ Major Restriction
- ✓ Class Restriction

Capacity Override is required for the following error:

CLOSED SECTION (C)

Faculty Credit Override is required for the following error:

MAXIMUM HOURS EXCEEDED

Note: Students cannot obtain an override for the following Registration errors: CAMPUS RESTRICTION, RPT HRS EXCEED, LINK ERROR

For further assistance regarding registration visit the Office of the Campus Registrar website:

<http://www.mona.uwi.edu/registry/pdf/add.drop.pdf>

For Step by Step Registration visit:

http://sas.uwimona.edu.jm:9010/Web_for_Student_v1.pdf

To reset your UWI password contact:

- Mona Information Technology Services (MITS)
- The Student Records Unit (SRU)

CREDIT REQUIREMENTS

The table below indicates the minimum credits distribution for the awarding of a degree from the Faculty of Science and Technology.

LEVEL	MINIMUM CREDIT REQUIREMENT
1	24 (18 must be from FST courses)
2 and 3 (Advanced)	60 (All courses relating to the declared major(s) and or minor(s) must be completed)
FOUNDATION COURSES	9 Students registered in FST should not register for FOUN1201- (Science, Medicine and Technology in Society)
TOTAL	93

GPA SCHEME	CLASS OF DEGREE
3.6 and above	First Class
3.00 – 3.59	Upper Second
2.50 – 2.99	Lower Second
2.00 – 2.49	Pass

GRADE POINT AVERAGE (GPA) SYSTEM

GRADE	GRADE POINT	PERCENTAGE RANGE	GRADE DEFINITION
A ⁺	4.3	90-100	Exceptional
A	4	80-89	Outstanding
A ⁻	3.7	75-79	Excellent
B ⁺	3.3	70-74	Very Good
B	3	65-69	Good
B ⁻	2.7	60-64	Satisfactory
C ⁺	2.3	55-59	Fair
C	2	50-54	Acceptable
F1	1.7	45-49	Unsatisfactory
F2	1.3	40-44	Weak
F3	0	0-39	Poor

ACADEMIC DIARY (PROPOSED)

2017 - 2018

Semester 1

- Semester 1 Begins.....August 27, 2017
- Teaching Begins.....September 04, 2017
- Teaching Ends.....December 01, 2017
- Examinations Begin.....December 04, 2017
- Examinations End.....December 22, 2017
- Semester 1 EndsDecember 22, 2017

Semester 2

- Semester II Begins.....January 21, 2018
- Teaching Begins.....January 22, 2018
- Teaching Ends.....April 20, 2018
- Semester Break.....April 22-29, 2018
- Examinations Begin.....April 30, 2018
- Examinations End.....May 18, 2018
- Semester II EndsMay 18, 2018

POINTS TO REMEMBER

- Students are encouraged to attend all lecture sessions.
- Avoid 'academic fatigue' by exercising proper time management and working consistently.
- Always aim for an A+, why settle for less? Each year students are awarded for academic excellence by being on the *Dean's Honour Roll* or receiving *Letters of Commendation*.
- This is your Faculty, therefore set the right tone by displaying the appropriate behavior, especially in dress and speech.
- Be punctual for all lecture, tutorial and laboratory sessions as this exhibits respect for self, lecturers and your colleagues.
- Avoid using cell-phones during lecture, tutorial and laboratory sessions.
- Eating or drinking is not allowed in the lecture theatres and laboratories.
- Ensure that you are aware of all the courses that are required for the completion of your selected *Major(s)* and/or *Minor(s)*.
- Ensure that you submit all assignments on time, as each Department reserves the right to refuse late assignments.
- Ensure that you are familiar with the Regulations for Undergraduate degrees.

- Seek immediate guidance from your Academic Advisors, Lecturers or the Associate Dean, Undergraduate Studies about matters concerning your degree.
- Check your online student portal (SAS) at least once per week for possible notes from lectures.
- Always check the notice boards for information from the Campus Registrar, Dean/Associate Dean or Departments.
- Utilize the University's Facilities such as the Health Centre and the Gym.
- Though campus security is present, be aware of your surroundings and keep your personal items in your care.
- Confirm your registration status at least two weeks before your final examination.
- While learning have fun, but do so in a responsible manner as the University caters to the development of the whole person.
- Park your vehicle in the designated area(s). Failure to do so will attract a financial penalty.
- Take responsibility for your school work. You can share information with your colleagues, but don't be naïve about it.
- Avoid plagiarism at all times.
- Equip yourself with information regarding scholarships and student exchange programmes and submit your applications.

BRAIN TEASERS

1. A 10 foot rope ladder hangs over the side of a boat with the bottom rung on the surface of the water. The rungs are one foot apart, and the tide goes up at the rate of 6 inches per hour. How long will it be until three rungs are covered?
2. A man dressed in all black is walking down a country lane. Suddenly, a large black car without any lights on comes round the corner and screeches to a halt. How did the car know he was there?
3. A rooster laid an egg on top of the barn roof. Which way did it roll?
4. An electric train is moving north at 100mph and a wind is blowing to the west at 10mph. Which way does the smoke blow?
5. How can a man go eight days without sleep?
6. How much dirt is there in a hole 3 feet deep, 6 ft long and 4 ft wide?
7. Which is heavier, 100 pounds of rocks or 100 pounds of feathers?

ANSWERS

1) Never. The boat rises as the tide goes up. 2) It was day time. 3) It didn't roll – since when did roosters start laying eggs? 4) There is no smoke with an electric train. 5) By sleeping during the night time 6) None, or else it wouldn't be a hole. 7) They both weigh the same - 100 pounds.

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