

The University of the West Indies, UWI

Faculty of Science and Technology



June 1 - July 29



**Summer School
2015/2016**

**Information
Guide**

**Information
Guide**



FST Summer School Coordinator

Dr. Eric Hyslop – eric.hyslop@uwimona.edu.jm

Faculty, Dean's Office
Faculty of Science and Technology
(876) 977-1785 ext. 2401



Departments/Section Summer School Coordinators

- ❖ Dr. Andrew Pearson, **Biochemistry Section**
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- ❖ Miss Christine Lawson, **Department of Life Sciences**
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- ❖ Dr. Sam McDaniel, **Department of Mathematics**
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- ❖ Dr. Tannecia Stephenson, **Department of Physics**
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Who Can Register

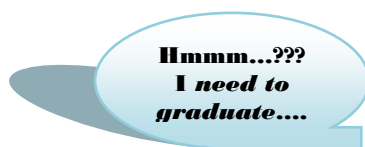
The following categories of students are eligible for admission to the Summer School:

- Registered students of the University who have to repeat any of the course(s) offered.
- Registered students of the University who have not taken the course(s) previously, but fall into one of the following categories:-
 - ❖ Students of the University who have not yet completed the requirements for the degree programme for which they are registered.
 - ❖ Registered UWI students from other UWI campuses.
- Students of the University who have been granted (a) Leave of Absence for Semester I and/or 2, or (b) permission to Write “Examinations Only”.
- Individuals who are not students of the University, but are eligible to matriculate at either the Normal or Lower level or as a mature student.



Summer School can:

- ✚ help you meet the *graduation requirements* for 2016.
- ✚ help you advance to the next level in the programme of your choice.
- ✚ help you to complete your degree requirements in less time.
- ✚ help students who required to withdraw to redeem themselves.
- ✚ help students from other colleges or universities who are currently paying *a little too much* for tuition fees to sit courses at a more affordable cost.



Summer School Calendar



DATES	ACTIVITY
May 5, 2016	Online Registration Site Opens
May 16 – June 10, 2016	Normal Registration Period (Normal registration and adjustments to registration)
May 31, 2016	Payment Deadline for Fees
May 30, 2016	Teaching Begins
June 10, 2016	Online Registration Site Closes to Students (Normal registration and adjustments to registration ends at Midnight 10-JUNE-2016)
June 13 – 17, 2016	Late Registration and Adjustments (with Late Reg. Penalty) 1st Late Penalty Period - \$1000 Students are allowed to add drop until 11:59 PM June 17, 2016
June 20- July 29, 2016	Late Addition of courses (with Late Reg. Penalty) 2nd Late Penalty Period - \$2000 No dropping of courses allowed Requests for late dropping of courses can be done using the ASRM (Subject to the Academic Board decision).
Friday July 15, 2016	Teaching (Summer School) Ends
July 18 – July 29, 2016**	Summer School/Supplemental/Re-sit Examinations.
July 30, 2016 **	SUMMER SCHOOL ENDS 
*August 5, 2016***	Submission Deadline for approved Marksheets/Gradesheets for Summer and Supplemental Examinations *Key: Departmental Notice



- ❖ **Summer School is optional.**
- ❖ *Each Department reserves the right to withdraw a course if the quota for the course is not met.*
- ❖ **Summer Course Load:** Students can register for a **maximum of TWELVE (12)** credits; e.g. four courses (3 credits each), two 6-credit courses. Finalizing students may apply to the Associate Dean for special permission to exceed credit limit.
- ❖ **There is NO deregistration:** consequently, if you add a course and you do not drop it by the stipulated deadline, the course will remain on your record and you will:
 - be charged for the course
 - receive a grade of FA
- ❖ If you do not register for a course by the stipulated deadline you will ***not*** be allowed to sit the exam for that course (***see Summer School Coordinator***). This includes students given permission to sit courses as exams-only.
- ❖ It is the sole responsibility of the students to ensure that their registration is completed.

COURSE OPTIONS

- M11= Full Course
- MLX = Lab Exemption
- MEX = Exam Only

(Students should check with their respective Departments to find out which category they are qualified for before registering).

TIMETABLE - Students, who are pursuing more than one course, should choose carefully and register for **only one course in any one time slot.**

NB: Each Department reserves the right to withdraw a course if the quota for the course is not met.

COURSE OPTIONS

FST. FOUNDATION COURSE

COURSE CODE	COURSE TITLE	STREAM
FOUN1201	Science, Medicine and Technology in Society	M11 & MEX

BASIC MEDICAL SCIENCES, BIOCHEMISTRY SECTION

COURSE CODE	COURSE TITLE	STREAM
BIOC1020*	Cellular Biochemistry	M11 & MEX
BIOC1021*	Practical Biochemistry 1	M11 & MEX
MICR1010*	Introductory Microbiology and Molecular Biology	M11 & MEX
MICR1011*	Practical Microbiology and Molecular Biology 1	M11 & MEX
BIOT3113*	Biotechnology I	M11 & MEX
BIOT3114*	Biotechnology II	M11 & MEX
BIOC2014	Bioenergetics and Cell Metabolism	MEX
BIOL2312	Molecular Biology I	MEX
BIOC3312	Molecular Biology 2	MEX
MICR3213	Applied and Environmental Microbiology	MEX
MICR3214	Molecular Microbiology	MEX
MICR3215	Food Microbiology and Biotechnology	MEX
MICR3216	Medical Microbiology	MEX

NB: M11 registrations require a minimum of 15 provisional registrations before being offered.

DEPARTMENT OF CHEMISTRY

COURSE CODE	COURSE TITLE	STREAM
CHEM0901	Preliminary Chemistry A	MLX & MEX
CHEM0902	Preliminary Chemistry B	MLX & MEX
CHEM1901	Introductory Chemistry A	MLX & MEX
CHEM1902	Introductory Chemistry B	MLX & MEX
CHEM2010*	Chemical Analysis A	M11 & MEX
CHEM2110*	Inorganic Chemistry A	MEX
CHEM2210*	Organic Chemistry A	M11 & MEX
CHEM2310*	Physical Chemistry A	M11 & MEX
CHEM3010*	Chemical Analysis B	MEX
CHEM3110*	Inorganic Chemistry B	MEX

COURSE CODE	COURSE TITLE	STREAM
CHEM3210*	Organic Chemistry B	MEX
CHEM3213*	Applications of Organic Chemistry in Medicine and Agriculture	MEX
CHEM3310*	Physical Chemistry B	MEX
CHEM3402*	The Chemical Industries	MEX

Key Note: *Course Needs Special Permission to Register

DEPARTMENT OF COMPUTING

COURSE CODE	COURSE TITLE	STREAM
COMP1126	Introduction to Computing I	M11 & MEX
COMP1127	Introduction to Computing II	M11 & MEX
COMP1161	Object-Oriented Programming	M11 & MEX
COMP1210	Math for Computing	M11 & MEX
COMP1220	Computing and Society	MEX
COMP2140	Software Engineering	M11 & MEX
COMP2170	Object Technology	M11 & MEX
COMP2190	Net-Centric Computing	M11 & MEX
COMP2201	Discrete Mathematics for Computer Science	M11 & MEX
COMP2211	Analysis of Algorithms	M11 & MEX
COMP2340	Computer Systems Organization	M11 & MEX
COMP3101	Operating Systems	M11 & MEX
COMP3161	Database Management Systems	M11 & MEX
COMP3220	Principles of Artificial Intelligence	M11 & MEX
COMP3901	Group Project (3 Credits)	M11
INFO2100	Mathematics and Statistics for IT	M11 & MEX
INFO2110	Data Structures for IT	M11 & MEX
INFO2180	Web Design and Programming II	M11 & MEX
INFO3105	Computer Systems Administration	M11 & MEX
INFO3110	Information Systems	M11 & MEX
INFO3180	Web Design and Programming II	M11 & MEX
INFO3155	Information Assurance and Security	M11 & MEX
INFO3170	User Interface Design for IT	M11 & MEX
SWEN3130	Software Project Management	MEX

NB: M11 registrations require a minimum of 15 provisional registrations before being offered.

MEX registrations require a minimum of 5 provisional registrations before being offered.



DEPARTMENT OF LIFE SCIENCES

COURSE CODE	COURSE TITLE	STREAM
BIOL0011	Prelim Biology I	MEX
BIOL0012	Prelim Biology II	MEX
BIOL1017	Cell Biology	MEX
BIOL1018	Molecular Biology & Genet	MEX
BIOL1262	Living Organisms I	MEX
BIOL1263	Living Organisms II	MEX
AGSL2401	Management of Soils	MEX
BIOL2401	Research Skills	MEX
BIOL2402	Biometry	MEX
BIOL2403	Ecology	MEX
BIOL2404	Molecular & Population Genetics	MEX
BIOL2406	Eukaryotic Microbiology	MEX
BIOL2407	Biological Evolution	MEX
BIOL2408	Diving for Scientists	M11
BOTN2401	Plant Form & System	MEX
BOTN2402	Physiology of Plants	MEX
ZOOL2403	Maintenance Systems	MEX
ZOOL2404	Coordination & Control	MEX
AGBU3008	Internship	M11
AGBU3012	Research Project	M11
AGCP3407	Postharvest Tech	MEX
BIOL3400	Issues in Conservation	MEX
BIOL3403	Biology of Soil	MEX
BIOL3404	Virology	MEX
BIOL3405	Pest Ecology & Management	MEX
BIOL3406	Freshwater Biology	MEX
BIOL3407	Oceanography	MEX
BIOL3408	Coastal Ecosystems	MEX
BIOL3409	Caribbean Coral Reefs	MEX
BIOL3410	Water Pollution	MEX
BIOL3411	Research Project	M11
BIOL3413	Biology Project	M11
BOTN3401	Principles of Pl Biotech	MEX
BOTN3402	Plant Breeding	MEX
BOTN3403	Fundamentals of Horticulture	MEX
BOTN3404	Economic Botany	MEX
BOTN3405	Plant Ecophysiology	MEX
BOTN3406	Tropical Forest Ecology	MEX
ZOOL2402	Animal Physiology	MEX
ZOOL3403	Entomology	MEX
ZOOL3404	Parasitology	MEX
ZOOL3405	Vertebrate Biology	MEX
ZOOL3406	Immunology	MEX
ZOOL3407	Human Biology	MEX
ZOOL3408	Sustainable Use	MEX
ZOOL3409	Aquaculture	MEX

DEPARTMENT OF MATHEMATICS

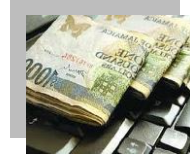
COURSE CODE	COURSE TITLE	STREAM
MATH0100	(M08B) Pre-calculus	M11 & MEX
MATH0110	(M08C) Calculus & Analytical Geometry	M11 & MEX
MATH1141	Introductory Linear Algebra	M11 & MEX
MATH1142	Calculus I	M11 & MEX
MATH1151	Calculus II	M11 & MEX
MATH1152	Introduction to Formal Mathematics	M11 & MEX
MATH1180	Engineering Mathematics 1	M11 & MEX
MATH1185	Calculus for Scientists and Engineers	M11 & MEX
STAT1001	Statistics for Science	M11 & MEX
MATH2401	Elements of Mathematics Analysis	M11 & MEX
MATH2403	Multivariable Calculus	M11 & MEX
MATH2404	Introduction to Probability Theory	M11 & MEX
MATH2410	A First Course in Linear Algebra	M11 & MEX
MATH2411	Introduction to Abstract Algebra	M11 & MEX
MATH2420	Ordinary Differential Equations	M11 & MEX
MATH2430	Linear Optimization	MEX
STAT2001	Inferential Statistics	M11 & MEX
MATH2701	Financial Mathematics I	M11 & MEX
MATH2702	Actuarial Mathematics I	M11 & MEX
MATH3155	Complex Variables	MEX
MATH3401	Introduction to the Theory of Integration	MEX
MATH3402	Basic of Metric Space & Topology	MEX
MATH3421	Partial Differential Equation	MEX
MATH3801	Financial Mathematics II	MEX
MATH3802	Construction and Evaluation of Actuarial Models	MEX
MATH3803	Models for Financial Economics	MEX
MATH3804	Actuarial Mathematics II	MEX
MATH3805	Mathematics of Pension Funds	MEX
MATH3806	Topics in General Insurance	M11 & MEX
STAT3001	Regression Analysis	MEX
STAT3002	Time Series	MEX
MATH3414	Selected Topics In Operations Research	MEX
MATH3412	Advanced Linear Algebra	MEX
MATH3422	Mathematical Modelling	MEX
MATH3424	Numerical Methods	MEX
MATH3425	Techniques For Solving Advanced Mathematics Problems	MEX

***Key Note:** Only students with grades from 45-49 are eligible to register for Exam Only (MEX)

DEPARTMENT OF PHYSICS

COURSE CODE	COURSE TITLE	STREAM
PHYS1411	Mechanics	MEX
PHYS1412	Waves, Optics & Thermodynamics	MEX
PHYS1421	Electricity & Magnetism	MLX & MEX
PHYS1422	Modern Physics	MEX
PHYS3399	Research Project (Non-electronics)	M11
ELET1400	Introduction to Electronics	MEX
ELET2415	Practices in Electronics Design II (M11)	MEX
ELET2460	Signals and Systems	MEX
PHYS2386	Electromagnetism and Optics	MEX
PHYS3200	General Physics Lab 2	MEX
PHYS3386	Electromagnetism	MEX
PHYS3562	The Physics of Non-Crystalline and Amorphous Materials	MEX





STUDENT FEES (UWJ Undergraduate Courses)

J\$25,989.00	Undergraduate (3- credit course fee)
J\$12,994.00	Exam Only (3- credit course fee)
J\$19,491.75	Lab Exemption (3- credit course fee)
J\$1,000.00	Late fee (Pending period of request)

****\$8,663.00 is the per-credit cost for this year Semester I, II and III.

✚ Full cost (M11):

For a 6 credit course = $8,663.00 \times 6 = \text{J\$}51,978.00$
 And for a 3 credit course = $8,663.00 \times 3 = \text{J\$}25,989.00$

✚ Lab Exemption (MLX) is 75% of cost

For a 6 credit course = $8,663.00 \times 6 \times 3/4 = \text{J\$}38,983.50$
 And for a 3 credit course = $8,663.00 \times 3 \times 3/4 = \text{J\$}19,491.75$

✚ Exam Only (MEX) is 50% of cost

For a 6 credit course = $8,663.00 \times 6 \times 1/2 = \text{J\$}25,989.00$
 And for a 3 credit course = $8,663.00 \times 3 \times 1/2 = \text{J\$}12,994.50$

FEES FOR SPECIALLY ADMITTED STUDENTS

Non-Sponsored Students from Contributing Territories

J\$13,400.00	Tuition (per credit)
J\$14,748.00	Part-Time and Specially Admitted Students (Miscellaneous Fees)
J\$500.00	ID Card First Issue/Renewal
J\$1,500.00	Application processing fee

Students from Non-Contributing Territories

J\$40,204.00/US\$338.00	Tuition (per credit)
J\$14,748.00	Part-Time and Specially Admitted Students (Miscellaneous Fees)
J\$500.00	ID Card First Issue/Renewal
J\$ 1,500.00	Application processing fee

International Students

J\$15,000.00/US\$555.00	Tuition (per credit)
J\$14,748.00	Part-Time and Specially Admitted Students (Miscellaneous Fees)
J\$500.00	ID Card First Issue/Renewal
J\$ 1,500.00	Application Processing Fee



1. A student is deemed to be fully registered for the Summer Programme when the student has fulfilled his/her financial obligations to the University.
2. All Faculty of Science and Technology's students should register for ***no more than twelve (12) credits*** in summer school 2016; however finalizing students with the permission of the Associate Dean or his nominee can register for an additional course. A student is deemed as finalizing if that student has only 3 or 4 courses left to complete the degree requirements.
3. All Faculty and Departmental Information for Summer School will be available online and through the various Departments' offices.

Registering for course on another Campus

4. To register for a course on another Campus, go to the *Student Administration System (SAS)* link and select the *Automated Student Request Module* option and then make your request. It is recommended that you follow-up on your request with the Faculty, Dean's Office.
5. Registration includes three components, all of which must be completed as follows:
 - I. Online selection and approval of courses
 - II. Pay fees at the Bursary Cashier, National Commercial Bank, Bill Express, PayMaster or via UWI e-Commerce
<https://eservices.mona.uwi.edu/finserv/tuition/>
 - III. Check approval online.

❖ For more information check <http://www.mona.uwi.edu/studinfo/fees/>

CHANGE/WITHDRAWAL OF REGISTRATION

- **After the 19th June 2016** Academic Board Approval is required for additional add/drop changes; late fines will be levied by Academic Board. Fines for late registration are dependent on the registration period.
- Application for *withdrawal* from a course after the normal registration period will attract a penalty, which shall be instituted as follows:
 - a. 25% of the fees up to the end of the 1st week of teaching
 - b. 30% of the fees up to the end of the 2nd week
- Courses not dropped by the deadline of June 10, 2016 will be counted and the student will be billed accordingly.



METHOD OF REGISTRATION FOR INTERNATIONAL STUDENTS

1. Download the Application form from the international page on the admissions site.
2. Review courses of interest and note the Course Code and correct name of the course.
3. Include the course codes with the course name where indicated on the form.
4. Take the form to the Department offering the course and request that they approve the course by placing initials next to the course name.
5. Take the signed (initialed) form to the Admissions Section with the receipt of the J\$900 application fee that was paid at the NCB Bank, and an original and copy of the Birth Certification and previous academic records (CXC, CAPE, A-Levels). If an Associate Degree, Diploma, Teacher's Certificate or Degree from any tertiary institution, request a transcript be sent directly to the Assistant Registrar, Undergraduate Admissions, *The University of the West Indies, Mona, Kingston 7, Jamaica*.
6. Await confirmation from the Admissions Section that your offer of entry has been approved and package prepared.
7. Accept the offer by indicating on the enclosed acceptance sheet.
8. Register for the course.

METHOD OF REGISTRATION FOR SPECIALLY ADMITTED STUDENTS

Special admission is open to applicants wishing to pursue one or more courses listed in our catalogue of courses.

1. Download Application Form
http://www.mona.uwi.edu/admissions/specially_admitted.php.
2. Take the form to the Department offering the course and request that they approve the course by placing initials next to the course name.
3. Take the signed (initialed) form to **Kimberley Bryant**, Admissions Section.
4. Await confirmation from the Admissions Section that your offer of entry has been approved and your package prepared.
5. Accept the offer by indicating on the enclosed acceptance sheet.
6. Register for the course.
7. Pay the fees.



For further details, contact Dr. Eric Hyslop
Faculty Summer School Coordinator
8:30am - 4:30pm
Telephone: 977-1785/935-8401/935-8962
(FST, Dean's Office)
Email: eric.hyslop@uwimona.edu.jm

*Designed by:
Administrative Staff, FST,
Dean's Office*