



THE UNIVERSITY OF THE WEST INDIES
MONA CAMPUS, JAMAICA, WEST INDIES

Faculty of Science and Technology

2021/2022 Semester 2 Course Offerings

For Semester 2 of the Academic Year 2021/22 the courses listed below include a portion delivered in a face-to-face mode.

Please note:

1. This notice is subject to change at any time depending on the national circumstance. Students should constantly check the Faculty website for updates.
2. The option exists to have an incomplete grade awarded if students are unable to attend face to face lab sessions. The final grade will not be awarded until the student completes the face to face labs. This may be at the next available sitting in a subsequent semester.
3. Students are urged to consult with the Undergraduate Coordinators OR Course Coordinators in each Department if they have any queries.
4. Students should use the information to make the best decision for their circumstance.
5. All students should regularly check The UWI for updates as the national circumstance may warrant changes to the above.
6. The Faculty encourages all incoming students to get vaccinated as soon as possible, allowing at least a few weeks between vaccination and the start of the semester.



Biochemistry Courses

Code	Course	Lectures	Tutorial streams		Laboratory	Field Trips
			online	F2F		
BIOC1020	Cellular Biochemistry	online	ALL	0-F2F	0-F2F	N/A
BIOC1021	Practical Biochemistry	N/A	ALL	0-F2F	half F2F	N/A
MICR1010	Introductory Microbiology and Molecular Biology	online	ALL	0-F2F	0-F2F	N/A
MICR1011	Practical Microbiology and Molecular Biology	N/A	ALL	0-F2F	half F2F	N/A
BIOL2312	Molecular Biology I	online	ALL	0-F2F	most F2F	N/A
MICR2211	Microbiology	online	ALL	0-F2F	most F2F	N/A
BIOC3011	Advanced Biochemistry	online	ALL	0-F2F	online	
BIOC3014	Plant Biochemistry	online	ALL	0-F2F	most F2F	
BIOT3114	Biotechnology II	online	ALL	0-F2F	All F2F	
BIOT3116	Industrial Ethanol Production	online	ALL	0-F2F	most F2F	TBD
BIOL3313	Human Molecular Biology	online	ALL	0-F2F	most F2F	
MICR3215	Food Microbiology & Biotechnology	online	ALL	0-F2F	online	
MICR3216	Medical Microbiology	online	ALL	0-F2F	online	



Chemistry Courses (BSc)

Code	Course	Lectures	Tutorial streams		Laboratory	Field Trips
			online	F2F		
CHEM0902	Preliminary Chemistry B	online	4-online	2-F2F	most F2F	
CHEM1910	Introductory Chemistry III	online	all online			
CHEM1911	Introductory Chemistry Laboratory II				most F2F	
CHEM1920	Introductory Chemistry IV	online	4-online	2-F2F	-	
CHEM2110	Advanced Inorganic Chemistry A	online		2-F2F		
CHEM2111	Inorganic Chemistry Laboratory I				most F2F	
CHEM2311	Physical Chemistry Laboratory I				most F2F	
CHEM2510	Food Processing Principles I	Online		Online		
CHEM3010	Chemical Analysis B	Online	all online	none F2F	N/A	N/A
CHEM3011	Chemical Analysis B Laboratory	N/A	N/A	N/A	all F2F	N/A
CHEM3111	Inorganic Chemistry Laboratory 2				most F2F	
CHEM3112	The Inorganic Chemistry of Biological Systems	online		F2F		
CHEM3210	Organic Chemistry B	F2F & online	2-online	3-F2F		
CHEM3211	Organic Chemistry Lab II				F2F	
CHEM3212	Natural Products Chemistry	F2F	0-online	1-F2F		
CHEM3310	Physical Chemistry B	F2F	1-online	1-F2F		
CHEM3313	Topics in Advanced Physical Chemistry	F2F	1-online	1-F2F		
CHEM3402	The Chemical Industries	online	online		F2F (internship)	Online
CHEM3403	Chemical Process Principles	online	online		most F2F	1 - F2F
CHEM3511	Food Chemistry Laboratory				most F2F	
CHEM3512	Food Chemistry II	Online		Online		
CHEM3513	Food Safety & Quality Assurance	F2F	1-online	1-F2F		
CHEM3711	Chemistry Undergraduate Research Project				F2F	
FAPT COURSES						
FAPT6105	Fruits, Vegetables, Root Tuber Processing	Online		F2F	F2F	F2F
FAPT6201	Food Safety and Quality Standards	F2F		F2F	F2F	F2F
FAPT6302	Product Development	Online		Online	Blended	
FAPT6304	Research Project I				F2F	
FAPT6401	Agri-Business Management	F2F		F2F		
OESH COURSES						
OESH1000	Introduction to OESH	F2F	1-Online	1- F2F	N/A	1-F2F
OESH3010	Occupational and Environmental Health Disorders	Online	1-Online		N/A	F2F
OESH3020	OESH Measurement Methods	Online	1-Online		F2F	1-F2F
OESH3040	Disaster and Emergency Management	Online	1. Online			F2F
OESH3210	Ergonomics	Online	1-Online		F2F	
OESH6010	Advanced Topic in OESH - A	F2F	N/A	N/A	F2F	F2F
OESH6030	Advanced Topics in OESH - B	Online	N/A	N/A	N/A	N/A
OESH6040	Advanced OESH Management Systems	Online	N/A	N/A	N/A	F2F
OESH6050	Advanced Topic in OESH - C	Online	N/A	N/A		
OESH6320	Seminar	Online	N/A	N/A	N/A	N/A



Computing Courses

Code	Course	Lectures	Tutorial streams		Laboratory	Field Trips
			online	F2F		
COMP1126	Introduction to Computing I	online	online	0-F2F	online	N/A
COMP1127	Introduction to Computing II	online	online	0-F2F	online	N/A
COMP1161	Introduction to Object-Oriented Programming	online	online	0-F2F	online	N/A
COMP1210	Mathematics for Computing	online	online	0-F2F	online	N/A
COMP1220	Computing and Society	online	online	0-F2F	N/A	N/A
COMP2171	Object Oriented Design & Implementation	online	online	0-F2F	N/A	N/A
COMP2211	Analysis of Algorithms	online	online	0-F2F	N/A	N/A
COMP3162	Data Science Principles	online	N/A	0-F2F	online	N/A
COMP6115	Knowledge Discovery and Data Analytics I	F2F & online		0-F2F		N/A
COMP6620	Computer Vision	online	online	0-F2F	online	N/A
COMP6820	DS Capstone Project I	online	N/A	0-F2F	N/A	N/A
COMP6830	DS Capstone Project II	online	N/A	0-F2F	N/A	N/A
INFO3155	Information Assurance and Security	online	online	0-F2F	N/A	N/A
INFO3170	User Interface Design for IT	online	online	0-F2F	N/A	N/A
INFO3180	Dynamic Web Development 2	online	online	0-F2F	Online	N/A
SWEN3185	Formal Methods and Software Reliability	online	online	0-F2F	N/A	N/A



Geography and Geology Courses

Code	Course	Lectures	Tutorial streams		Laboratory	Field Trips
			online	F2F		
GEOG1132	Human Geography 2: World Economy, Agriculture and Food	Online	All online	0-F2F	All online	No
GEOG1232	Earth Environments 2: Climate and the Biosphere	Online	All online	0-F2F	All online	No
GEOG2132	Geographies of Development	Online	All online	0-F2F	All online	No
GEOG2232	Environmental Change	Online	All online	0-F2F	Some F2F	Yes
GEOG3132	Tourism Planning & Development	Online	N/A	N/A	All online	Yes
GEOG3333	Introduction to Urban and Regional Planning	Online	online	0-F2F	N/A	Yes
GEOG3430	Geography Research Project	N/A	N/A	0-F2F	Some F2F	No
GEOL1103	Earth Science 3: Minerals and Mineral Deposits	Online	All online	N/A	All online	No
GEOL1104	Earth Science 4: Geological Maps and Environmental Geology	Online	All online	N/A	F2F	Yes
GEOL2201	Paleontology and the History of Life	Online	Most online	2-F2F	F2F	No
GEOL2203	Petrology of Igneous and Metamorphic Rocks	Online	All online	0-F2F	F2F	No
GEOL2204	Field Techniques for Geology Lab GEOL2204	Online	All online	N/A	Some F2F	Yes
GEOL3100	Research Project In Field Geology	N/A	All online	N/A	N/A	No
GEOL3104	Sedimentology & Facies Analysis	Online	All online	0-F2F	F2F	Yes
GEOL3105	Petroleum Geology	Online	All online	0-F2F	Some F2F	Yes
GGE02332	Introduction to Geographic Information Systems	Online	N/A	N/A	4 F2F	No
GGE03231	Karst and Coastal Geomorphology	Online	N/A	N/A	All online	Yes
GGE03233	Hydrology and Hydrological Modelling	Online	N/A	N/A	Some F2F	Yes
GGE03332	Disaster Management	Online	N/A	N/A	All online	Yes
GGE03402	Research Project in Geosciences	N/A	All online	N/A	N/A	No



Life Sciences Courses

Code	Course	Lectures	Tutorial streams		Laboratory	Field Trips
			online	F2F		
BIOL0012	Preliminary Biology II	online	All	0-F2F	All online	None
BIOL1262	Living Organisms I	online	All	0-F2F	All online	None
BIOL1263	Living Organisms II	online	All	0-F2F	All online	None
BIOL2164	Principles of Molecular Biology	online	All	0-F2F	6 F2F	None
BIOL2403	Principles of Ecology	online	All	0-F2F	6 F2F	3
BOTN2402	Physiology of Plants	online	All	0-F2F	6 F2F	None
ZOOL2403	Maintenance Systems in Animals	online	All	0-F2F	6 F2F	None
ZOOL2404	Coordination and Control in Animals	online	All	0-F2F	6 F2F	None
ZOOL2402	Animal Physiology	online	All	0-F2F	6 F2F	None
BIOL3404	Virology	online	All	0-F2F	6 F2F	1
BIOL3405	Pest Ecology & Management	online	All	0-F2F	2 F2F	1
BIOL3406	Freshwater Biology	online	All	0-F2F	2 F2F	1
BIOL3400	Issues in Conservation Biology	online	All	0-F2F	2 F2F	2
BIOL3409	Caribbean Coral Reefs	online	All	0-F2F	2 F2F	2
BOTN3404	Economic Botany	online	All	0-F2F	2 F2F	1
ZOOL3406	Immunology	online	All	0-F2F	All online	None
ZOOL3408	Sustainable Use of Marine Fishable Resources	online	All	0-F2F	1 F2F	2
ZOOL3410	Advanced Topics in Animal Science	online	All	0-F2F	None	None



Mathematics Courses

Code	Course	Lectures	Tutorial streams		Laboratory	Field Trips
			online	F2F		
MATH0110	Calculus and Analytical Geometry	online	5 online	0	n/a	n/a
MATH1151	Calculus II	online	5 online	0	n/a	n/a
MATH1152	Introduction to Formal Mathematics	online	5 online	0	n/a	n/a
MATH2403	Multivariable Calculus	online	0	0	n/a	n/a
MATH2407	Stochastic Modelling	online	0	0	n/a	n/a
MATH2411	Introduction to Abstract Algebra	online	0	0	n/a	n/a
MATH2420	Ordinary Differential Equations	online	0	0	n/a	n/a
MATH2431	Non-linear Optimization	online	0	0	n/a	n/a
MATH2702	Actuarial Mathematics I	online	0	0	n/a	n/a
MATH3155	Complex variables	online	0	0	n/a	n/a
MATH3422	Mathematical Modelling	online	0	0	n/a	n/a
MATH3423	Research Project	online	0	0	n/a	n/a
MATH3424	Numerical Methods	online	0	0	n/a	n/a
MATH3425	Techniques for solving Advanced Mathematics Problems	online	0	0	n/a	n/a
MATH3802	Construction and Evaluation of Actuarial Models	online	0	0	n/a	n/a
MATH3803	Models for Financial Economics	online	0	0	n/a	n/a
MATH3806	Topics in General Insurance	online	0	0	n/a	n/a
STAT2001	Inferential Statistics	online	0	0	n/a	n/a
STAT2004	Multivariate Methods	online	0	0	n/a	n/a
STAT3002	Time Series	online	0	0	online	n/a
STAT3003	Design and Analysis of Experiments	online	0	0	online	n/a
MASTERS COURSES						
MATH6625	Measure & Integration	online	0	0	n/a	n/a
MATH6195	Finite Element Analysis	online	0	0	n/a	n/a
MATH6635	Complex Analysis and Applications	online	0	0	n/a	n/a
MTRM6010	Risk Categories and Identification	online	0	0	n/a	n/a
MTRM6060	Credit Risk Management & Modelling	online	0	0	n/a	n/a



Physics Courses

Code	Course	Lectures	Tutorial streams		Laboratory	Field Trips
			online	F2F		
ACCT6017	Quantitative Methods of Management	online	All	Zero	None	None
ELET1405	Practices in Basic Electronics	F2F	None	F2F	F2F	None
ELET1500	Engineering Circuit Analysis and Devices	online	1-online	1-F2F	None	None
ELET2415	Practices in Electronics Designs II	F2F	None	F2F	F2F	None
ELET2480	Communication Systems	online	All	Zero	None	None
ELET2530	Digital Electronics and Circuits	online	All	Zero	None	None
ELET2570	Microprocessors and Computer Architecture	online	All	Zero	None	None
ELET3405	Practical Analysis of Advanced Electronic Circuits and Systems	F2F	None	F2F	F2F	None
ELET3490	Electronics Project	online	None	F2F	F2F	None
ELET3611	Integrating Alternative Energy	online	All	Zero	None	None
PHYS0421	Introduction to Electricity and Magnetism	online	2-online	1-F2F	most F2F	None
PHYS0422	Introduction to Nuclear Physics and Optics	online	2-online	1-F2F	most F2F	None
PHYS1421	Electricity and Magnetism	online	2-online	1-F2F	most F2F	None
PHYS1422	Modern Physics	online	2-online	1-F2F	most F2F	None
PHYS2200	Practices in Medical Physics I	online	online	online	F2F	None
PHYS2296	Physics of the Human Body	online	All	online	None	None
PHYS2396	Computer Applications in Physics	online	All	Zero	None	None
PHYS2500	Materials Science Laboratory I	online	All	Zero	most F2F	None
PHYS2561	Fundamentals of Materials Science	online	All	Zero	None	None
PHYS2600	Fluid Mechanics and Environmental Physics Laboratory	online	All	Zero	None	None
PHYS3200	General Physics Lab 2	online	All	Zero	most F2F	None
PHYS3351	Modern Physics	online	All	Zero	None	None
PHYS3389	Medical Radiation Physics	online	All	Zero	None	None
PHYS3395	Astronomy and Cosmology	online	All	Zero	2-F2F	None
PHYS3399	Research Project (Non-electronics)	online	None	None	1-F2F	None
PHYS3400	Physics in Practice Internship	online	None	None	None	F2F
PHYS3562	The Physics of Non-Crystalline and Amorphous Materials	online	All	Zero	None	None
PHYS3565	Thermodynamics and Kinetics of Materials	online	All	Zero	None	None
PHYS3661	Physics of Atmosphere & Climate	online	All	Zero	None	None
PHYS3681	Wind and Hydro Power	online	All	Zero	None	None
PHYS3701	Advanced Renewable Energy Technologies and Solutions	online	All	Zero	None	None
MASTERS COURSES						
MGMT6139	Leadership & Organizational Behaviour	online	All	Zero	None	None
PHYS6390	Statistical Methods in Atmospheric Physics	online	All	Zero	None	None
RNEM6060	Renewable Energy Research Project	online	None	None	F2F	None